

# tracklang v1.3.4: tracking language options

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## Abstract

The tracklang package is provided for package developers who want a simple interface to find out which languages the user has requested through packages such as babel and polyglossia. *This package doesn't provide any translations.* Its purpose is simply to track which languages have been requested by the user. Generic T<sub>E</sub>X code is in tracklang.tex for non-L<sup>A</sup>T<sub>E</sub>X users.

If the shell escape is enabled or `\directlua` is available, this package may also be used to query the LC\_ALL or LANG environment variable (see Section 5). Windows users, who don't have the locale stored in environment variables, can use texosquery in combination with tracklang.

The fundamental aim of this generic package is to be able to effectively say:

The user (that is, the *document* author) wants to use dialects xx-XX, yy-YY-Scrp, etc in this document. Any packages used by this document that provide multilingual or region-dependent support should do whatever is required to activate the settings for those languages and regions (or warn the user that there's no support).

Naturally, this is only of use if the locale-sensitive packages use tracklang to pick up this information, which is entirely up to the package authors, but at the moment there's no standard method for packages to detect the required language and region. The aim of tracklang is to provide that method.

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# 1 Introduction

When I'm developing a package that provides multilingual support (for example, glossaries) it's cumbersome trying to work out if the user has requested translations for fixed text. This usually involves checking if `babel` or `ngerman` or `translator` or `polyglossia` has been loaded and, if so, what language settings have been used. The result can be a tangled mass of conditional code. The alternative is to tell users to add the language as a document class option, which they may or may not want to do, or to tell them to supply the language settings to every package they load that provides multilingual support, which users are even less likely to want to do.

The `tracklang` package tries to neaten this up by working out as much of this information as possible for you and providing a command that iterates through the loaded languages. This way, you can just iterate through the list of tracked languages and, for each language, either define the translations or warn the user that there's no translation for that language.

This package works best with `ngerman` or with recent versions of `babel` or when the language options are specified in the document class option list. It works fairly well with `translator` but will additionally assume the root language was also requested when a dialect is specified. So, for example,

```
\usepackage[british]{translator}  
\usepackage{tracklang}
```

is equivalent to

```
\usepackage[british]{translator}  
\usepackage[english,british]{tracklang}
```

This means that `\ForEachTrackedDialect` will iterate through the list "english,british" instead of just "british", which can result in some redundancy.

Unfortunately I can't work out how to pick up the language variant or script from `polyglossia`, so only the root languages are detected, which is suboptimal but at least provides some information.

If the `ngerman` package has been loaded, `tracklang` effectively does

```
\TrackPredefinedDialect{ngerman}
```

Similarly, if the `german` package has been loaded, `tracklang` effectively does

```
\TrackPredefinedDialect{german}
```

If any document class or package options are passed to `tracklang`, then `tracklang` won't bother checking for `babel`, `translator`, `ngerman`, `german` or `polyglossia`. So, if the above example is changed to:

```
\documentclass[british]{article}  
\usepackage{translator}  
\usepackage{tracklang}
```

then the dialect list will just consist of “british” rather than “english,british”. This does, however, mean that if the user mixes class and package options, only the class options will be detected. For example:

```
\documentclass[british]{article}
\usepackage[french]{babel}
\usepackage{tracklang}
```

In this case, only the “british” option will be detected. The user can therefore use the document class option (or tracklang package option) to override the dialect and set the country code (where provided). For example:

```
\documentclass[es-MX]{article}
\usepackage[spanish]{babel}
\usepackage{tracklang}
```

This sets the dialect to “mexicanspanish” and the root language to “spanish”.

Predefined dialects are listed in tables 1.1, 1.2 and 1.3. These may be passed in the document class options or used in `\TrackPredefinedDialect`, as illustrated above.

Section 2 provides brief examples of use for those who want a general overview before reading the more detailed sections. Section 3 describes generic commands for identifying the document languages. Section 4 is for package writers who want to add multilingual support to their package and need to know which settings the user has requested through language packages like babel. Section 5 is for developers of language definition packages who want to help other package writers to detect what languages have been requested.

Table 1.1: Predefined ISO Language-Region Dialects. (May be used as a package option or with `\TrackPredefinedDialect`.)

cy-GB	(GBwelsh)	de-AT	(austrian)
de-AT-1996	(naustrian)	de-BE	(belgiangerman)
de-CH	(swissgerman)	de-CH-1996	(nswissgerman)
de-DE	(germanDE)	de-DE-1996	(ngermanDE)
en-AU	(australian)	en-CA	(canadian)
en-GB	(british)	en-GG	(guernseyenglish)
en-IE	(IEenglish)	en-IM	(isleofmanenglish)
en-JE	(jerseyenglish)	en-MT	(maltaenglish)
en-NZ	(newzealand)	en-US	(american)
es-AR	(argentinespanish)	es-BO	(bolivianspanish)
es-CL	(chilianspanish)	es-CO	(columbianspanish)
es-CR	(costaricanspanish)	es-CU	(cubanspanish)
es-DO	(dominicanspanish)	es-EC	(ecudorianspanish)
es-ES	(spainspanish)	es-GT	(guatemalanspanish)
es-HN	(honduranspanish)	es-MX	(mexicanspanish)
es-NI	(nicaraguanspanish)	es-PA	(panamaspanish)
es-PE	(peruvianspanish)	es-PR	(puertoricospanish)
es-PY	(paraguayspanish)	es-SV	(elsalvadorspanish)
es-UY	(uruguayspanish)	es-VE	(venezuelanspanish)
fr-BE	(belgique)	fr-CA	(canadien)
fr-CH	(swissfrench)	fr-FR	(france)
fr-GG	(guernseyfrench)	fr-JE	(jerseyfrench)
ga-GB	(GBirish)	ga-IE	(IEirish)
gd-GB	(GBscottish)	hr-HR	(croatia)
hu-HU	(hungarian)	id-IN	(bahasa)
it-CH	(swissitalian)	it-HR	(istriacountyitalian)
it-IT	(italy)	it-SI	(sloveneistriaitalian)
it-SM	(sanmarino)	it-VA	(vatican)
ms-MY	(malay)	mt-MT	(maltamaltese)
nl-BE	(flemish)	nl-NL	(netherlands)
pt-BR	(brazilian)	pt-PT	(portugal)
rm-CH	(swissromansh)	sl-SI	(slovenia)

Other combinations need to be set with `\TrackLocale` or `\TrackLanguageTag`.

Table 1.2: Predefined Root Languages. (†Has an associated territory.) The corresponding language tag obtained with `\GetTrackedLanguageTag{<dialect>}` is shown in parentheses.

abkhaz (ab)	afar (aa)	afrikaans (af)
akan (ak)	albanian (sq)	amharic† (am-ET)
anglosaxon (ang)	apache (apa)	arabic (ar)
aragonese† (an-ES)	armenian (hy)	assamese (as)
asturian (ast)	avaric (av)	avestan (ae)
aymara (ay)	azerbaijani (az)	bahasai† (id-IN)
bahasam† (ms-MY)	bambara† (bm-ML)	bashkir (ba)
basque (eu)	belarusian (be)	bengali (bn)
berber (ber)	bihari (bh)	bislama† (bi-VU)
bokmal† (nb-NO)	bosnian (bs)	breton† (br-FR)
bulgarian (bg)	burmese (my)	catalan (ca)
chamorro (ch)	chechen (ce)	chichewa (ny)
chinese (zh)	churchslavonic (cu)	chuvash† (cv-RU)
coptic (cop)	cornish† (kw-GB)	corsican (co)
cree (cr)	croatian (hr)	czech (cs)
danish (da)	divehi† (dv-MV)	dutch (nl)
dzongkha† (dz-BT)	easternpunjabi† (pa-IN)	english (en)
esperanto (eo)	estonian (et)	ewe (ee)
faroese (fo)	farsi (fa)	fijian† (fj-FJ)
finnish (fi)	french (fr)	friulan† (fur-IT)
fula (ff)	galician (gl)	ganda† (lg-UG)
georgian (ka)	german (de)	greek (el)
guarani (gn)	gujarati (gu)	haitian† (ht-HT)
hausa (ha)	hebrew (he)	herero (hz)
hindi (hi)	hirimotu† (ho-PG)	icelandic† (is-IS)
ido (io)	igbo (ig)	interlingua (ia)
interlingue (ie)	inuktitut (iu)	inupiaq (ik)
irish (ga)	italian (it)	japanese (ja)
javanese (jv)	kalaallisut (kl)	kannada† (kn-IN)
kanuri (kr)	kashmiri† (ks-IN)	kazakh (kk)
khmer (km)	kikuyu (ki)	kinyarwanda (rw)
kirundi (rn)	komi† (kv-RU)	kongo (kg)
korean (ko)	kurdish (ku)	kwanyama (kj)
kyrgyz (ky)	lao (lo)	latin (la)
latvian (lv)	limburgish (li)	lingala (ln)
lithuanian (lt)	lsorbian† (dsb-DE)	lubakatanga† (lu-CD)
luxembourgish (lb)	macedonian (mk)	magyar (hu)
malagasy (mg)	malayalam† (ml-IN)	maltese (mt)
manx† (gv-IM)	maori† (mi-NZ)	marathi† (mr-IN)

Table 1.2: Predefined Root Languages Continued.

marshallese <sup>†</sup> (mh-MH)	mongolian (mn)	nauruan <sup>†</sup> (na-NR)
navajo <sup>†</sup> (nv-US)	ndonga (ng)	nepali (ne)
nko (nqo)	norsk (no)	northernndebele (nd)
northernsotho (nso)	nuosu <sup>†</sup> (ii-CN)	nynorsk <sup>†</sup> (nn-NO)
occitan (oc)	ojibwe (oj)	oriya (or)
oromo (om)	ossetian (os)	pali (pi)
pashto (ps)	piedmontese <sup>†</sup> (pms-IT)	polish (pl)
portuges (pt)	quechua (qu)	romanian (ro)
romansh <sup>†</sup> (rm-CH)	russian (ru)	samin (se)
samoan (sm)	sango (sg)	sanskrit (sa)
sardinian <sup>†</sup> (sc-IT)	scottish (gd)	serbian (sr)
shona (sn)	sindhi (sd)	sinhalese <sup>†</sup> (si-LK)
slovak (sk)	slovene (sl)	somali (so)
southernndebele <sup>†</sup> (nr-ZA)	southernsotho (st)	spanish (es)
sudanese (su)	swahili (sw)	swati (ss)
swedish (sv)	syriac (syr)	tagalog <sup>†</sup> (tl-PH)
tahitian <sup>†</sup> (ty-PF)	tai (tai)	tajik (tg)
tamil (ta)	tatar (tt)	telugu <sup>†</sup> (te-IN)
thai <sup>†</sup> (th-TH)	tibetan (bo)	tigrinya (ti)
tonga <sup>†</sup> (to-TO)	tsonga (ts)	tswana (tn)
turkish (tr)	turkmen (tk)	twi <sup>†</sup> (tw-GH)
ukrainian <sup>†</sup> (uk-UA)	urdu (ur)	usorbian <sup>†</sup> (hsb-DE)
uyghur <sup>†</sup> (ug-CN)	uzbek (uz)	venda <sup>†</sup> (ve-ZA)
vietnamese (vi)	volapuk (vo)	walloon (wa)
welsh (cy)	westernfrisian <sup>†</sup> (fy-NL)	wolof (wo)
xhosa (xh)	yiddish (yi)	yoruba (yo)
zhuang <sup>†</sup> (za-CN)	zulu (zu)	



Table 1.3: Predefined Non-ISO Dialects. (†Has an associated territory.) The corresponding language tag obtained with `\GetTrackedLanguageTag{<dialect>}` is shown in parentheses. If the dialect has a corresponding mapping for the closest matching non-root language `\caption...` or `\date...`, this is also include after the tag following a slash.

acadian (fr)	american† (en-US)
argentinespanish† (es-AR)	australian† (en-AU)
austrian† (de-AT)	bahasa† (id-IN)
belgiangerman† (de-BE)	belgique† (fr-BE)
bolivianspanish† (es-BO)	brazil† (pt-BR)
brazilian† (pt-BR)	british† (en-GB)
canadian† (en-CA)	canadien† (fr-CA)
chilianspanish† (es-CL)	columbianspanish† (es-CO)
costaricanspanish† (es-CR)	croatia† (hr-HR)
cubanspanish† (es-CU)	cymraeg (cy)
deutsch (de)	dominicanspanish† (es-DO)
ecudorianspanish† (es-EC)	elsalvadorspanish† (es-SV)
flemish† (nl-BE)	francais (fr)
france† (fr-FR)	frenchb (fr)
friulano† (fur-IT)	friulian† (fur-IT)
furlan† (fur-IT)	gaeilge (ga)
gaelic (gd)	galicien (gl)
GBirish† (ga-GB)	GBscottish† (gd-GB)
GBwelsh† (cy-GB)	germanb (de)
germanDE† (de-DE)	guatemalanspanish† (es-GT)
guernseyenglish† (en-GG / british)	guernseyfrench† (fr-GG)
honduranspanish† (es-HN)	hungarian† (hu-HU)
IEenglish† (en-IE / british)	IEIrish† (ga-IE)
indon† (id-IN)	indonesian† (id-IN)
isleofmanenglish† (en-IM / british)	istriacountycroatian† (hr-HR)
istriacountyitalian† (it-HR)	italy† (it-IT)
jerseyenglish† (en-JE / british)	jerseyfrench† (fr-JE)
kurmanji (ku)	latein (la)
lowersorbian† (dsb-DE)	malay† (ms-MY)
maltaenglish† (en-MT / british)	maltamaltese† (mt-MT)
mexicanspanish† (es-MX)	meyalu† (ms-MY)
naustrian† (de-AT-1996)	nbelgiangerman† (de-BE-1996 / ngerman)
netherlands† (nl-NL)	newzealand† (en-NZ)
ngerman (de-1996)	ngermanb (de-1996 / ngerman)
ngermanDE† (de-DE-1996 / ngerman)	nicaraguanspanish† (es-NI)
norwegian† (no-NO)	nswissgerman† (de-CH-1996 / ngerman)
panamaspanish† (es-PA)	paraguayspanish† (es-PY)

Table 1.3: Predefined Non-ISO Dialects Continued

persian (fa)	peruvianspanish <sup>†</sup> (es-PE)
piemonteis <sup>†</sup> (pms-IT)	polutoniko (el)
polutonikogreek (el)	portugal <sup>†</sup> (pt-PT)
portuguese (pt)	puertoricospanish <sup>†</sup> (es-PR)
romanche (rm)	romansch (rm)
rumantsch (rm)	russianb (ru)
sanmarino <sup>†</sup> (it-SM)	serbianc (sr-Cyrl)
serbianl (sr-Latn)	sloveneistriaitalian <sup>†</sup> (it-SI)
sloveneistriaslovenian <sup>†</sup> (sl-SI / slovenian)	slovenia <sup>†</sup> (sl-SI / slovenian)
slovenian (sl)	spainspanish <sup>†</sup> (es-ES)
swissfrench <sup>†</sup> (fr-CH)	swissgerman <sup>†</sup> (de-CH)
swissitalian <sup>†</sup> (it-CH)	swissromansh <sup>†</sup> (rm-CH)
UKenglish <sup>†</sup> (en-GB)	ukraine <sup>†</sup> (uk-UA)
ukraineb <sup>†</sup> (uk-UA)	uppertsorbian <sup>†</sup> (hsb-DE)
uruguayspanish <sup>†</sup> (es-UY)	USenglish <sup>†</sup> (en-US)
valencian (ca)	valencien (ca)
vatican <sup>†</sup> (it-VA)	venezuelanspanish <sup>†</sup> (es-VE)

## 2 Summary of Use

There are three levels of use:

1. document level (code used by document authors);
2. locale-sensitive package level (code for package authors who need to know what languages or locale the document is using, such as glossaries to translate commands like `\descriptionname` or `datetime2` to provide localised formats or time zone information);
3. language set-up level (code for packages that set up the document languages, such as `babel` or `polyglossia`).

### 2.1 Document Level

#### 2.1.1 Generic T<sub>E</sub>X

Unix user wants the locale information picked up from the locale environment variable:

```
\input tracklang % v1.3
\TrackLangFromEnv
% load packages that use tracklang for localisation
```

Windows user wants the locale information picked up from the operating system:

```
\input texosquery
\input tracklang %v1.3
\TrackLangFromEnv
% load packages that use tracklang for localisation
```

Or (texosquery v1.2 currently pending)

```
\input texosquery % v1.2
\input tracklang % v1.3

\TeXOSQueryLangTag{\langtag}
\TrackLanguageTag{\langtag}
% load packages that use tracklang for localisation
```

Anticipate the release of texosquery v1.2:

```
\input texosquery
\input tracklang % v1.3

\ifx\TeXOSQueryLangTag\undefined
  \TrackLangFromEnv
\else
  \TeXOSQueryLangTag{\langtag}
  \TrackLanguageTag{\langtag}
\fi
% load packages that use tracklang for localisation
```

User is writing in Italy in Armenian with a Latin script and the arevela variant:

```
\input tracklang % v1.3
\TrackLanguageTag{hy-Latn-IT-arevela}
% load packages that use tracklang for localisation
```

User is writing in English in the UK:

```
\input tracklang
\TrackPredefinedDialect{british}
% load packages that use tracklang for localisation
```

Find out information about the current language (supplied in `\language`):

```
\SetCurrentTrackedDialect{\language}
Dialect: \CurrentTrackedDialect.
Language: \CurrentTrackedLanguage.
ISO Code: \CurrentTrackedIsoCode.
Region: \CurrentTrackedRegion.
Modifier: \CurrentTrackedDialectModifier.
Variant: \CurrentTrackedDialectVariant.
Script: \CurrentTrackedDialectScript.
Sub-Lang: \CurrentTrackedDialectSubLang.
Additional: \CurrentTrackedDialectAdditional.
Language Tag: \CurrentTrackedLanguageTag.
```

Additional information about the script can be obtained by also loading `tracklang-scripts`:

```
\input tracklang-scripts
```

The name, numeric code and direction can now be obtained:

```
Name: \TrackLangScriptAlphaToName{\CurrentTrackedDialectScript}.
Numeric: \TrackLangScriptAlphaToNumeric{\CurrentTrackedDialectScript}.
Dir: \TrackLangScriptAlphaToDir{\CurrentTrackedDialectScript}.
```

Test for a specific script:

```
Latin?
\ifx\CurrentTrackedDialectScript\TrackLangScriptLatn
  Yes
\else
  No
\fi
```

## 2.1.2 L<sup>A</sup>T<sub>E</sub>X

For `babel` users where the supplied `babel` dialect label is sufficient, there's no need to do anything special:

```
\documentclass[british,canadien]{article}
\usepackage[T1]{fontenc}
\usepackage{babel}
% load packages that use tracklang for localisation
```

If the region is important but there's no babel dialect that represents it, there are several options.

Use the class options recognised by tracklang and the root language labels when loading babel:

```
\documentclass[en-IE,ga-IE]{article}
\usepackage[english,irish]{babel}
% load packages that use tracklang for localisation
```

This method is needed for polyglossia where the regional information is required. For example

```
\documentclass[en-GB]{article}
\usepackage{polyglossia}
\setmainlanguage[variant=uk]{english}
% load packages that use tracklang for localisation
```

Another method with babel is to use `\TrackLanguageTag` and map the new dialect label to babel's nearest matching label:

```
\documentclass{article}

\usepackage{tracklang}% v1.3
\TrackLanguageTag{en-MT}
\SetTrackedDialectLabelMap{\TrackLangLastTrackedDialect}{UKenglish}

\usepackage[UKenglish]{babel}
% load packages that use tracklang for localisation
```

This ensures that the `\captionsUKenglish` hook is detected by the localisation packages. This mapping isn't needed for polyglossia as the caption hooks use the root language label. This mapping also isn't needed if `british` is used instead of `UKenglish` since the `en-MT` (maltaenglish) predefined dialect automatically sets up a mapping to `british`. (The default mappings are shown in [table 1.3](#).)

## 2.2 Locale-Sensitive Packages

Let's suppose you are developing a package called `mypackage.sty` or `mypackage.tex` and you want to find out what languages the document author has requested.

Generic use:

```
\input tracklang
```

(Most of the commands used in this section require at least tracklang version 1.3.) Note that `tracklang.tex` has a check to determine if it's already been loaded, so you don't need to worry about that.

ℒ<sub>TeX</sub> use:

```
\RequirePackage{tracklang}[2016/10/07]% at least v1.3
```

This will pick up any language options supplied in the document class options and will also detect if babel or polyglossia have been loaded.

(ℒ<sub>TeX</sub>) If you want to allow the user to set the locale in the package options:

```
\DeclareOption*{\TrackLanguageTag{\CurrentOption}}
```

This means the user can do, say,

```
\usepackage[hy-Latn-IT-arevela]{mypackage}
```

The rest of the example package in this section uses generic code.

If you want to fetch the locale information from the operating system when the user hasn't requested a language:

```
\AnyTrackedLanguages
{}
{% fetch locale information from the operating system
  \ifx\TeXOSQueryLangTag\undefined
    % texosquery v1.2 not available
    \TrackLangFromEnv
  \else
    % texosquery v1.2 available
    \TeXOSQueryLangTag{\langtag}
    \TrackLanguageTag{\langtag}
  \fi
}
```

Set up the defaults if necessary:

```
\def\foaname{Foo}
\def\barname{Bar}
```

Now load the resource files:

```
\AnyTrackedLanguages
{%
  \ForEachTrackedDialect{\thisdialect}{%
    \TrackLangRequireDialect{mypackage}{\thisdialect}%
  }%
}
{}% no tracked languages, default already set up
```

Each resource file has the naming scheme *<prefix>-<tag>.ldf*. In this example, the *<prefix>* is *mypackage*. The *<tag>* may be the language or dialect label (for example, *english* or *british*) or a combination of the ISO language and region codes (for example, *en-GB* or *en* or *GB*).

The simplest scheme is to use the root language label (not the dialect label) for the base language settings and use the ISO codes for regional support.

For example, the file *mypackage-english.ldf*:

```
\TrackLangProvidesResource{english}[2016/10/06 v1.0]% identify this file

\TrackLangAddToCaptions{%
  \def\foaname{Foo}%
  \def\barname{Bar}%
}
```

This sets up appropriate the `\captions...` hook (if it's found). For other hooks, such as `\date...`, use `\TrackLangAddToHook{<code>}{<hook type>}` instead.

Here's an example for a language with different writing systems. The resource file for Serbian *mypackage-serbian.ldf*:

```
\TrackLangProvidesResource{serbian}[2016/10/06 v1.0]% identify file

\TrackLangRequestResource{serbian-\CurrentTrackedScript}
{}% file not found, do something sensible here
```

The file `mypackage-serbian-Latn.1df` sets up the Latin script:

```
\TrackLangProvidesResource{serbian-Latn}[2016/10/06 v1.0]

\TrackLangAddToCaptions{%
  \def\foiname{...}% provide appropriate Latin translations
  \def\barname{...}%
}
```

The file `mypackage-serbian-Cyrl.1df` sets up the Cyrillic script:

```
\TrackLangProvidesResource{serbian-Cyrl}[2016/10/06 v1.0]

\TrackLangAddToCaptions{%
  \def\foiname{...}% provide appropriate Cyrillic translations
  \def\barname{...}%
}
```

## 2.3 Language Packages

Let's suppose now you're the developer of a package that sets up the language, hyphenation patterns and so on. It would be really helpful to the locale-sensitive packages in Section 2.2 to know what languages the document author has requested. You can use the `tracklang` package to identify this information by tracking the requested localisation, so that other packages can have a consistent way of querying it.

Generic use:

```
\input tracklang
```

Alternative  $\TeX$  use:

```
\RequirePackage{tracklang}[2016/10/07] % v1.3
```

Unlike `\input`, `\RequirePackage` will allow `tracklang` to pick up the document class options, but using `\RequirePackage` will also trigger the tests for known language packages. (If you want to find out if `tracklang` has already been loaded and locales have already been tracked, you can use the same code as in the previous section.)

When a user requests a particular language through your package, the simplest way of letting `tracklang` know about it is to use `\TrackPredefinedDialect` or `\TrackLanguageTag`. For example, if the user requests `british`, that's a predefined dialect so you can just do:

```
\TrackPredefinedDialect{british}
```

Alternatively

```
\TrackLanguageTag{en-GB}
```

If your package uses caption hooks, then you can set up a mapping between `tracklang`'s internal dialect label and your caption label. For example, let's suppose the closest match to English used in Malta (`en-MT`) is the dialect `UKenglish` (for example, the date format is similar between `GB` and `MT`):

```
\TrackLanguageTag{en-MT}
```

```

\SetTrackedDialectLabelMap{\TrackLangLastTrackedDialect}{UKenglish}
\def\captionsUKenglish{%
  \def\contentsname{Contents}%
  %...
}

```

(The predefined `maltaenglish` option provided by `tracklang` automatically sets the mapping to `british`, but the above method will change that mapping to `UKenglish`.)

This now means that `\TrackLangAddToCaptions` command used at the end of Section 2.2 above can find your caption hook. You don't need the map if your dialect label is the same as `tracklang`'s root language label for that locale. For example:

```

\TrackLanguageTag{en-MT}
\def\captionsenglish{%
  \def\contentsname{Contents}%
  %...
}

```

When the user switches language through commands like `\selectlanguage` it would be useful to also use `\SetCurrentTrackedDialect{<dialect>}` to make it easier for the document author or locale-sensitive packages to pick up the current locale. The `<dialect>` argument may be `tracklang`'s internal dialect label or the dialect label you assigned with `\SetTrackedDialectLabelMap`. It may also be the root language label, in which case `tracklang` will search for the last dialect to be tracked with that language. For example:

```

\def\selectlanguage#1{%
  % set up hyphenation patterns etc
  \SetCurrentTrackedDialect{#1}%
}

```

See the example in Section 2.1.



## 3 Generic Use

For plain TeX you can input `tracklang.tex`:

```
\input tracklang
```

or for TeX formats that have an argument form for `\input`:

```
\input{tracklang}
```

As from version 1.3, you don't need to change the category code of `@` before loading `tracklang.tex` as it will automatically be changed to 11 and switched back at the end (if required).

The L<sup>A</sup>T<sub>E</sub>X package `tracklang.sty` inputs the generic TeX code in `tracklang.tex`, but before it does so it defines

```
\@tracklang@declareoption{<name>}
```

to

```
\DeclareOption{<name>}{\TrackPredefinedDialect{<name>}}
```

This means that all the predefined languages and dialects (tables 1.1, 1.2 and 1.3) automatically become package options, so the `tracklang` package can pick up document class options and add them to `tracklang`'s internal list of tracked document languages.

If you're not using L<sup>A</sup>T<sub>E</sub>X, this option isn't available (although you could redefine the internal command `\@tracklang@declareoption` to use something analogous to `\DeclareOption`). Instead, the document languages need to be explicitly identified (using any of the following commands) so that `tracklang` knows about them.

```
\TrackPredefinedDialect
```

```
\TrackPredefinedDialect{<dialect label>}
```

This will add the predefined dialect and its associated ISO codes to the list of tracked document languages. The *<dialect label>* may be any of those listed in tables 1.1, 1.2 and 1.3. (See also Section 6.2.5 and Section 6.2.6.)

For example:

```
\input tracklang
\TrackPredefinedDialect{british}
```

is the Plain TeX alternative to

```
\documentclass[british]{article}
\usepackage{tracklang}
```

Note that it's impractical to define every possible language and region combination as it would significantly slow the time taken to load tracklang so, after version 1.3, I don't intend adding any new predefined dialects. As from version 1.3, if you want to track a dialect that's not predefined by tracklang, then you can use:

`\TrackLocale` `\TrackLocale{<locale>}`

If *<locale>* is a recognised dialect, this is equivalent to using `\TrackPredefinedDialect`, otherwise *<locale>* needs to be in one the following formats:

- *<ISO lang>*
- *<ISO lang>*@*<modifier>*
- *<ISO lang>*-*<ISO country>*
- *<ISO lang>*-*<ISO country>*@*<modifier>*

where *<ISO lang>* is the ISO 639-1 or 639-2 code identifying the language (lower case), *<ISO country>* is the 3166-1 ISO code identifying the territory (upper case) and *<modifier>* is the modifier or variant. The hyphen may be replaced by an underscore character. Code set information in the form *.<codeset>* may optionally appear before the modifier. For example, `de-DE.utf8@new` (modifier is `new`) or `en-GB.utf8` (modifier is missing). The codeset will be ignored if present, but it won't interfere with the parsing.

For example:

`\TrackLocale{de-NA@new}`

indicates German in Namibia using the new spelling.

If a language has different "T" and "B" ISO 639-2 codes, then the "T" form should be used. (So for the above example, `deu` may be used instead of `de`, but `ger` won't be recognised.)

Alternatively, you can use

`\TrackLanguageTag` `\TrackLanguageTag{<tag>}`

where *<tag>* is a regular, well-formed language tag or a recognised dialect label. (Irregular grandfather tags aren't recognised.) This command will fully expand *<tag>*. A warning is issued if the tag is empty. For example:

`\TrackLanguageTag{hy-Latn-IT-arevela}`

If *<tag>* contains a sub-language tag, this will be set as the 639-3 code for the *dialect* label. Note that this is different to the root language codes which are set using the language label. For example

`\TrackLanguageTag{zh-cmn-Hans-CN}`

creates a new dialect with the label `zhcmmHansCN`. The root language `chinese` has the ISO 639-1 code `zh` and the dialect `zhcmmHansCN` has the ISO 639-3 code `cmn`.

```
ISO 639-1: \TrackedIsoCodeFromLanguage{639-1}{chinese}.
ISO 639-3: \TrackedIsoCodeFromLanguage{639-3}{zhcmmHansCN}.
```

Version 1.2 (currently pending) of `texosquery` will have a new command `\TeXOSQueryLangTag`, which may be used to fetch the operating system's regional information as a language tag. These commands can be used as follows:

```
\input tracklang % v1.3
\input texosquery % v1.2

\TeXOSQueryLangTag{\langtag}
\TrackLanguageTag{\langtag}
```

(If the shell escape is disabled, `\langtag` will be empty, which will trigger a warning but no errors.)

Some of the predefined root language options listed in [table 1.2](#) have an associated region (denoted by †). If `\TrackLocale` is used with just the language ISO code, no region is tracked for that language. For example

```
\TrackLocale{manx}
```

will track the “IM” ISO 3166-1 code but

```
\TrackLocale{gv}
```

won't track the region. Similarly for `\TrackLanguageTag`.

(New to version 1.3.) There's a similar command to `\TrackLocale` that doesn't take an argument:

```
\TrackLangFromEnv
```

```
\TrackLangFromEnv
```

If the shell escape has been enabled or `\directlua` is available, this will try to get the language information from the system environment variables `LC_ALL` or `LANG` and, if successful, track that.

Since `tracklang` is neither able to look up the POSIX locale tables nor interpret file locales, if the result is `C` or `POSIX` or starts with a forward slash `/` then the locale value is treated as empty.

Not all operating systems use environment variables for the system locale information. For example, Windows stores the locale information in the registry. In which case, consider using `texosquery`.

If the operating system locale can't be obtained from environment variables, then `tracklang` will use `\TeXOSQueryLocale` as a fallback if `texosquery` has been loaded. Since `texosquery` requires both the shell escape and the Java runtime environment, `tracklang` doesn't automatically load it.

Plain T<sub>E</sub>X example:

```
\input texosquery
\input tracklang
\TrackLangFromEnv
```

with `etex --shell-escape <filename>`

L<sup>A</sup>T<sub>E</sub>X example:

```
\usepackage{texosquery}
\usepackage{tracklang}
\TrackLangFromEnv
```

with `latex --shell-escape <filename>`

If the locale can't be determined, there will be warning messages. These can be suppressed using

```
\TrackLangShowWarningsfalse
```

or switched back on again using

```
\TrackLangShowWarningstrue
```

For example, I have the environment variable `LANG` set to `en_GB.utf8` on my Linux system so instead of

```
\TrackPredefinedDialect{british}
```

I can use

```
\TrackLangFromEnv
```

With L<sup>A</sup>T<sub>E</sub>X documents I can do

```
\documentclass{article}
\usepackage{tracklang}
\TrackLangFromEnv
```

However, this only helps subsequently loaded packages that use `tracklang` to determine the required regional settings. For example:

```
\documentclass{article}
\usepackage{tracklang}
\TrackLangFromEnv
\usepackage[userregional]{datetime2}
```

In my case, with `LANG` set to `en_GB.utf8` and shell escape enabled, this automatically switches on the `en-GB` date style. Naturally this doesn't help locale-sensitive packages that don't use `tracklang`.

The `\TrackLangFromEnv` command also incidentally sets

```
\TrackLangEnv
```

to the value of the environment variable or empty if the query was unsuccessful (for example, the shell escape is unavailable).

If `\TrackLangEnv` is already defined before `\TrackLangFromEnv` is used, then the environment variable won't be queried and the value of `\TrackLangEnv` will be parsed instead.

The parser which splits the locale string into its component parts first tries splitting on the underscore `_` with its usual category code 8, then tries splitting on a hyphen `-` with category code 12, and then tries splitting on the underscore `_` with category code 12.

For example:

```
\def\TrackLangEnv{en-GB}
\TrackLangFromEnv
```

This doesn't perform a shell escape since `\TrackLangEnv` is already defined. In this case, you may just as well use

```
\TrackLocale{en-GB}
```

(unless you happen to additionally require the component commands that are set by `\TrackLangFromEnv`, see below.)

If the shell escape is unavailable (for example, your `TEX` installation prohibits it), you can set this value when you invoke `TEX`. For example, if the document file is called `myDoc.tex` (and it's in Plain `TEX`):

```
tex "\\def\TrackLangEnv{${LANG}}\input myDoc"
```

The `\TrackLangFromEnv` command also happens to store the component parts of the environment variable value in the following commands. (These aren't provided by `\TrackLocale`.)

The language code is stored in:

```
\TrackLangEnvLang \TrackLangEnvLang
```

The territory (if present) is stored in:

```
\TrackLangEnvTerritory \TrackLangEnvTerritory
```

(Defined to empty if not present.)

The codeset (if present) is stored in:

```
\TrackLangEnvCodeSet \TrackLangEnvCodeSet
```

(Defined to empty if not present.)

The modifier (if present) is stored in:

```
\TrackLangEnvModifier \TrackLangEnvModifier
```

(Defined to empty if not present.)

If you want to query the language environment, but don't want to track the result, you can just use:

`\TrackLangQueryEnv` `\TrackLangQueryEnv`

This only tries to fetch the value of the language environment variable (and use `texosquery` as a fallback, if it has been loaded). It doesn't try to parse the result. The result is stored in `\TrackLangEnv` (empty if unsuccessful). Unlike `\TrackLangFromEnv`, this doesn't check if `\TrackLangEnv` already exists. A warning will occur if the shell escape is unavailable. For systems that store the locale information in environment variables, this is more efficient than using `texosquery's` `\TeXOSQueryLocale` command (which is what's used as the fallback).

The above queries `LC_ALL` and, if that is unsuccessful, then queries `LANG` (before optionally falling back on `texosquery`). If you want another environment variable tried after `LC_ALL` and before `LANG`, you can instead use:

`\TrackLangQueryOtherEnv` `\TrackLangQueryOtherEnv{<name>}`

For example, to also query `LC_MONETARY`:

```
\TrackLangQueryOtherEnv{LC_MONETARY}
```

Since this sets `\TrackLangEnv`, you can use it before `\TrackLangFromEnv`. For example:

```
\TrackLangQueryOtherEnv{LC_MONETARY}
\TrackLangFromEnv
```

Remember that if you only want to do the shell escape if `\TrackLangEnv` hasn't already been defined, you can test for this first:

```
\ifx\TrackLangEnv\undefined
  \TrackLangQueryOtherEnv{LC_MONETARY}
\fi
\TrackLangFromEnv
```

It's also possible to just parse the value of `\TrackLangEnv` without tracking the result using:

`\TrackLangParseFromEnv` `\TrackLangParseFromEnv`

This is like `\TrackLangFromEnv` but assumes that `\TrackLangEnv` has already been set and doesn't track the result. The component parts are stored as for `\TrackLangFromEnv`.

Example (Plain  $\TeX$ ):

```
\input tracklang

\def\TrackLangEnv{fr-BE.utf8@euro}

\TrackLangParseFromEnv

Language: \TrackLangEnvLang.
Territory: \TrackLangEnvTerritory.
Codeset: \TrackLangEnvCodeSet.
Modifier: \TrackLangEnvModifier.
Any tracked languages? \AnyTrackedLanguages{Yes}{No}.
```

This produces:

Language: fr. Territory: BE. Codeset: utf8. Modifier: euro. Any tracked languages? No.

Compare this with:

```
\input tracklang

\def\TrackLangEnv{fr-BE.utf8@euro}

\TrackLangFromEnv

Language: \TrackLangEnvLang.
Territory: \TrackLangEnvTerritory.
Codeset: \TrackLangEnvCodeSet.
Modifier: \TrackLangEnvModifier.
Any tracked languages? \AnyTrackedLanguages{Yes}{No}.
Tracked dialect(s):%
\ForEachTrackedDialect{\thisdialect}{\space\thisdialect}.
```

This produces:

Language: fr. Territory: BE. Codeset: utf8. Modifier: euro. Any tracked languages? Yes.  
Tracked dialect(s): belgique.

If `\TrackLangFromEnv` doesn't recognise the given language and territory combination, it will define a new dialect and add that.

For example, `tracklang` doesn't recognise `en-BE`, so the sample document below defines a new dialect labelled `enBEeuro`:

```
\input tracklang

\def\TrackLangEnv{en-BE.utf8@euro}

\TrackLangFromEnv

Language: \TrackLangEnvLang.
Territory: \TrackLangEnvTerritory.
Codeset: \TrackLangEnvCodeSet.
Modifier: \TrackLangEnvModifier.
Any tracked languages? \AnyTrackedLanguages{Yes}{No}.
Tracked dialect(s):%
\ForEachTrackedDialect{\thisdialect}{\space\thisdialect}.
```

This now produces:

Language: en. Territory: BE. Codeset: utf8. Modifier: euro. Any tracked languages? Yes.  
Tracked dialect(s): enBEeuro.

## 4 Detecting the User's Requested Languages

The tracklang package tries to track the loaded languages and the option names used to identify those languages. For want of a better term, the language option names are referred to as dialects even if they're only a synonym for the language rather than an actual dialect. For example, if the user has requested `british`, the *root language* label is `english` and the dialect is `british`, whereas if the user requested `UKenglish`, the root language label is `english` and the dialect is `UKenglish`. The exceptions to this are the tracklang package options that have been specified in the form `<iso lang>-<iso country>` (listed in [table 1.2](#)). For example, the package option `en-GB` behaves as though the user requested the package option `british`.

If `\TrackLocale` or `\TrackLangFromEnv` are used and the locale isn't recognised a new dialect is created with the label formed from the ISO codes (and modifier, if present). Similarly for `\TrackLanguageTag` a new dialect is created with a label that's essentially the language tag without the hyphen separators. For example,

```
\TrackLocale{xx-YY}
```

will add a new dialect with the label `xxYY`,

```
\TrackLocale{xx-YY@mod}
```

will add a new dialect with the label `xxYYmod` and

```
\TrackLanguageTag{xx-YY-Latn}
```

will add a new dialect with the label `xxYYLatn`.

If `\TrackLocale` or `\TrackLangFromEnv` find a modifier, the value will be sanitized to allow it to be used as a label. If the modifier is set explicitly using `\SetTrackedDialectModifier`, no sanitization is performed.

In addition to the root language label and the dialect identifier, many of the language options also have corresponding ISO codes. In most cases there is an ISO 639-1 or an ISO 639-2 code (or both), and in some cases there is an ISO 3166-1 code identifying the dialect region. Where a language has both a "T" and a "B" ISO 639-2 code, the "T" version is assumed.

When the tracklang  $\LaTeX$  package is loaded, it first attempts to find the language options through the package options supplied to tracklang. This means that any languages that have been supplied in the document class options should get identified (provided that the document class has used the standard option declaration mechanism). If no languages have been



supplied in this way, tracklang then attempts to identify any babel language options and failing that it will try the translator language options. It will then check if ngerman or polyglossia have been loaded.

Each identified language and dialect is added to the *tracked language* and *tracked dialect* lists. Note that the tracked language and tracked dialect are labels rather than proper nouns. If a dialect label is identical to its root language label, the label will appear in both lists.

You can check whether or not any languages have been detected using:

`\AnyTrackedLanguages`

```
\AnyTrackedLanguages{<true part>}{<false part>}
```

This will do *<true part>* if one or more languages have been detected otherwise it will do *<false part>*. (Each detected dialect will automatically have the root language label added to the tracked language list, if it's not already present.)

If you want to find out if any of the tracked dialects match a particular language tag, you can use:

`\GetTrackedDialectFromLanguageTag`

```
\GetTrackedDialectFromLanguageTag{<tag>}{<cs>}
```

If successful, the supplied control sequence *<cs>* is set to the dialect label, otherwise *<cs>* is set to empty. Note that the extension (that is, the option part that may occur at the end of the tag) isn't used in the comparison.

For example (Plain T<sub>E</sub>X):

```
\input tracklang
\TrackLanguageTag{en-826}
Has en-GB-Latn been tracked?
\GetTrackedDialectFromLanguageTag{en-GB-Latn}{\thisdialect}%
\ifx\thisdialect\empty
  No!
\else
  Yes! Dialect label: \thisdialect.
\fi
\bye
```

This matches because the territory code 826 is recognised as equivalent to the code GB, and the default script for english is Latn. In this case, the dialect label is british. Note that this doesn't require the use of `\TrackLanguageTag` to track the dialect. It also works if the dialect has been tracked using other commands, such as `\TrackLocale`.

You can iterate through each tracked dialect using:

`\ForEachTrackedDialect`

```
\ForEachTrackedDialect{<cs>}{<code>}
```

At the start of each iteration, this sets *<cs>* to the tracked dialect and does *<code>*.

You can iterate through each tracked language using:

`\ForEachTrackedLanguage`

```
\ForEachTrackedLanguage{<cs>}{<code>}
```

At the start of each iteration, this sets *<cs>* to the tracked language and does *<code>*.

You can test if a root language has been detected using:

`\IfTrackedLanguage` `\IfTrackedLanguage{<label>}{<true part>}{<>false part>}`

where *<label>* is the language label. If true, this does *<true part>* otherwise it does *<>false part>*.

You can test if a particular dialect has been detected using:

`\IfTrackedDialect` `\IfTrackedDialect{<label>}{<true part>}{<>false part>}`

where *<label>* is the dialect label. If the root language was explicitly specified, then it will also be detected as a dialect.

For example:

```
\documentclass[british,dutch]{article}

\usepackage{tracklang}

\begin{document}
``english'' \IfTrackedDialect{english}{has}{hasn't} been specified.

``british'' \IfTrackedDialect{british}{has}{hasn't} been specified.

``flemish'' \IfTrackedDialect{flemish}{has}{hasn't} been specified.

``dutch'' \IfTrackedDialect{dutch}{has}{hasn't} been specified.

``english'' or an English variant
\IfTrackedLanguage{english}{has}{hasn't} been specified.

\end{document}
```

This produces:

“english” hasn’t been specified.  
“british” has been specified.  
“flemish” hasn’t been specified.  
“dutch” has been specified.  
“english” or an English variant has been specified.

You can find the root language label for a given tracked dialect using:

`\TrackedLanguageFromDialect` `\TrackedLanguageFromDialect{<dialect>}`

If *<dialect>* hasn’t been defined this does nothing otherwise it expands to the root language label.

You can find the tracked dialects from a given root language using:

`\TrackedDialectsFromLanguage` `\TrackedDialectsFromLanguage{<root language label>}`

This will expand to a comma-separated list of dialect labels if the root language label has been defined, otherwise it does nothing.

You can test if a language or dialect has a corresponding ISO code using:

`\IfTrackedLanguageHasIsoCode`

```
\IfTrackedLanguageHasIsoCode{<code type>}{<label>}{<true part>}{<>false part>}
```

where *<code type>* is the type of ISO code (for example, 639-1 for root languages or 3166-1 for regional dialects), and *<label>* is the language or dialect label. Note that the 639-3 may be set for the dialect rather than root language for sub-languages parsed using `\TrackLanguageTag`.

Alternatively, you can test if a particular ISO code has been defined using:

`\IfTrackedIsoCode`

```
\IfTrackedIsoCode{<code type>}{<code>}{<true part>}{<>false part>}
```

where *<code type>* is again the type of ISO code (for example, 639-1 or 3166-1), and *<code>* is the particular code (for example, en for ISO 639-1 or GB for ISO 3166-1).

You can fetch the language (or dialect) label associated with a given ISO code using:

`\TrackedLanguageFromIsoCode`

```
\TrackedLanguageFromIsoCode{<code type>}{<code>}
```

This does nothing if the given *<code>* for the given ISO *<code type>* has not been defined, otherwise it expands a comma-separated list of language or dialect labels.

You can fetch the ISO code for a given code type using:

`\TrackedIsoCodeFromLanguage`

```
\TrackedIsoCodeFromLanguage{<code type>}{<label>}
```

where *<label>* is the language or dialect label and *<code type>* is the ISO code type (for example, 639-1 or 3166-1). Unlike `\TrackedLanguageFromIsoCode`, this command only expands to a single label rather than a comma-separated list.

The above commands do nothing in the event of an unknown code or code type, so if you accidentally get the wrong code type, you won't get an error. If you're unsure of the code type, you can use the following commands:

`\TwoLetterIsoCountryCode`

```
\TwoLetterIsoCountryCode
```

This expands to 3166-1 and is used for the two-letter country codes.

`\TwoLetterIsoLanguageCode`

```
\TwoLetterIsoLanguageCode
```

This expands to 639-1 and is used for the two-letter root language codes.

`\ThreeLetterIsoLanguageCode`

```
\ThreeLetterIsoLanguageCode
```

This expands to 639-2 and is used for the three-letter root language codes.

`\ThreeLetterExtIsoLanguageCode`

`\ThreeLetterExtIsoLanguageCode`

(New to v1.3.) This expands to 639-3. This code is only used for a root language if there's no 639-1 or 639-2 code. It may also be used for a dialect if a sub-language part has been set in the language tag parsed by `\TrackLanguageTag`.

The `\Get...` commands below are designed to be expandable. If the supplied *<dialect>* is unrecognised they expand to empty. Remember that the dialect must first be identified as a tracked language for it to be recognised.

As from v1.3, the language tag for a given dialect can be obtained using:

`\GetTrackedLanguageTag`

`\GetTrackedLanguageTag{<dialect>}`

where *<dialect>* is the label identifying the dialect. Uses the und (undetermined) code for unknown languages.

As from v1.3, each tracked dialect may also have an associated modifier, which can be fetched using:

`\GetTrackedDialectModifier`

`\GetTrackedDialectModifier{<dialect>}`

where *<dialect>* is the label identifying the dialect. This value is typically obtained by parsing a POSIX locale identifier with `\TrackLocale` or `\TrackLangFromEnv` but may be set explicitly. (See Section 5 for setting this value. Likewise for the following commands.)

You can test if a dialect has an associated modifier using:

`\IfHasTrackedDialectModifier`

`\IfHasTrackedDialectModifier{<dialect>}{<true>}{<false>}`

If the dialect has an associated modifier this does *<true>* otherwise it does *<false>*.

For example:

```
\documentclass[british,français,american,canadian,canadien,dutch]{article}

\usepackage{tracklang}

\begin{document}

Languages: \ForEachTrackedLanguage{\ThisLanguage}{\ThisLanguage\space
(ISO \TwoLetterIsoLanguageCode:
``\TrackedIsoCodeFromLanguage{\TwoLetterIsoLanguageCode}{\ThisLanguage}''). }

Dialects: \ForEachTrackedDialect{\ThisDialect}{\ThisDialect\space
(\IfTrackedLanguageHasIsoCode{\TwoLetterIsoCountryCode}{\ThisDialect}%
{ISO \TwoLetterIsoCountryCode:
``\TrackedIsoCodeFromLanguage{\TwoLetterIsoCountryCode}{\ThisDialect}'')%
{no specific region};
root: \TrackedLanguageFromDialect{\ThisDialect}). }

Language for ISO \TwoLetterIsoCountryCode\ ``GB'':
\TrackedLanguageFromIsoCode{\TwoLetterIsoCountryCode}{GB}.

Language for ISO \TwoLetterIsoCountryCode\ ``CA'':
\TrackedLanguageFromIsoCode{\TwoLetterIsoCountryCode}{CA}.
```

```
Country ISO \TwoLetterIsoCountryCode\ code for ``canadian``:
\TrackedIsoCodeFromLanguage{\TwoLetterIsoCountryCode}{canadian}.

\end{document}
```

This produces:

Languages: english (ISO 639-1: “en”). french (ISO 639-1: “fr”). dutch (ISO 639-1: “nl”).

Dialects: american (ISO 3166-1: “US”; root: english). british (ISO 3166-1: “GB”; root: english). canadian (ISO 3166-1: “CA”; root: english). canadien (ISO 3166-1: “CA”; root: french). dutch (no specific region; root: dutch). francais (no specific region; root: french).

Language for ISO 3166-1 “GB”: british.

Language for ISO 3166-1 “CA”: canadian,canadien.

Country ISO 3166-1 code for “canadian”: CA.

As from v1.3, each tracked dialect may also have an associated variant, which can be fetched using:

```
\GetTrackedDialectVariant \GetTrackedDialectVariant{<dialect>}
```

where *<dialect>* is the label identifying the dialect. This value is typically obtained by parsing a language tag with `\TrackLanguageTag` but may be set explicitly.

You can test if a dialect has an associated variant using:

```
\IfHasTrackedDialectVariant \IfHasTrackedDialectVariant{<dialect>}{<true>}{<false>}
```

As from v1.3, each tracked dialect may also have an associated script, which can be fetched using:

```
\GetTrackedDialectScript \GetTrackedDialectScript{<dialect>}
```

where *<dialect>* is the label identifying the dialect.

You can test if a dialect has an associated script using:

```
\IfHasTrackedDialectScript \IfHasTrackedDialectScript{<dialect>}{<true>}{<false>}
```

If the dialect has an associated script this does *<true>* otherwise it does *<false>*. This information is provided for language packages that need to know what script is required, but there’s no guarantee that the script will actually be set in the document. Similarly for all the other attributes described here.

Note that the script should be a recognised four-letter ISO 15924 code, such as Latn or Cyr1. If a dialect doesn’t have an associated script then the default for the root language

should be assumed. For example, “Latn” for English dialects or “Cyril” for Russian dialects. (The default script for known languages can be obtained using `\TrackLangGetDefaultScript`, see Section 6.2.2 for further details. Most root languages have a default script, but there are a few without one as it may depend on region, politics or ideology.)

There’s a convenient expandable command for testing the script:

```
\IfTrackedDialectIsScriptCs{<dialect>}{<cs>}{<true>}{<false>}
```

This tests if the given tracked dialect has an associated script and compares the value with the replacement text of `<cs>`. If the dialect hasn’t been explicitly assigned a script, then test is performed against the default script for the root language.

The supplementary package `tracklang-scripts` provides some additional commands relating to writing systems, including commands in the form `\TrackLangScript<code>` where `<code>` is the ISO 15924 four-letter code. If the dialect doesn’t have an associated script, `<false>` is done. This package isn’t loaded automatically, so you’ll need to explicitly load it. The generic code is in `tracklang-scripts.tex`:

```
\input tracklang-scripts
```

There’s a convenient  $\LaTeX$  wrapper `tracklang-scripts.sty`:

```
\usepackage{tracklang-scripts}
```

See Section 6.5 for further details of that package.

For example, the following defines a command to check if the given dialect should use a Latin script:

```
\input tracklang-scripts
\def\islatin#1#2#3{%
  \IfTrackedDialectIsScriptCs{#1}{\TrackLangScriptLatn}{#2}{#3}%
}
```

Note that the script value doesn’t mean that the document is actually using that script. It means that this is the user’s *desired* script, but whether that script is actually set relies on the appropriate settings in the relevant language package (such as `polyglossia`’s `script` key).

As from v1.3, each tracked dialect may also have a sub-language identifier (for example, `arevela`), which can be fetched using:

```
\GetTrackedDialectSubLang \GetTrackedDialectSubLang{<dialect>}
```

where `<dialect>` is the label identifying the dialect.

You can test if a dialect has an associated sub-tag using:

```
\IfHasTrackedDialectSubLang \IfHasTrackedDialectSubLang{<dialect>}{<true>}{<false>}
```

If the dialect has an associated sub-tag this does *<true>* otherwise it does *<false>*.

As from v1.3, each tracked dialect may also have additional information, which can be fetched using:

`\GetTrackedDialectAdditional` `\GetTrackedDialectAdditional{<dialect>}`

where *<dialect>* is the label identifying the dialect.

You can test if a dialect has additional information using:

`\IfHasTrackedDialectAdditional` `\IfHasTrackedDialectAdditional{<dialect>}{<true>}{<false>}`

If the dialect has additional information this does *<true>* otherwise it does *<false>*.

Most packages that implement multilingual support have a set of language definition files for each supported language or dialect. It may be that only the root language is needed, if there are no variations between that language's dialect (for the purposes of that package), or it may be that separate definition files are required for each dialect. However it can be awkward trying to map the requested dialect or language label to the file name. Should, say, the file containing the French code be called *<prefix>-french-<suffix>* or *<prefix>-frenchb-<suffix>* or *<prefix>-français-<suffix>*? Should, say, the file containing the British English code be called *<prefix>-british-<suffix>* or *<prefix>-UKenglish-<suffix>*? If you want to modularise the language support for your package so that each language module has a different maintainer will the maintainers know what tag to use for their language?

To help with this, tracklang provides:

`\IfTrackedLanguageFileExists{<dialect>}{<prefix>}{<suffix>}{<true part>}{<false part>}`

This attempts to find the file called *<prefix><tag><suffix>* where *<tag>* is determined from *<dialect>*. If the file is found

`\CurrentTrackedTag`

is set to *<tag>* and *<true part>* is done, otherwise *<false part>* is done. If this command is empty, then the dialect hasn't been detected. If the dialect has been detected, but no file can be found, then `\CurrentTrackedTag` is set to the final attempt at determining *<tag>*.

There's a convenient shortcut command new to version 1.3:

`\TrackLangRequireDialect` `\TrackLangRequireDialect[<load code>]{<pkgname>}{<dialect>}`

which uses `\IfTrackedLanguageFileExists` to input the resource file if found. The prefix is given by *<pkgname>*- and the suffix is `.ldf`. A warning is issued if no resource file is found. Note that while it makes sense for *<pkgname>* to be the same as the base name of the package that uses these resource files, they don't have to be the same. This command additionally defines

`\TrackLangRequireDialectPrefix`

`\TrackLangRequireDialectPrefix`

to *<pkgname>*, which allows the prefix to be picked up by resource file commands, such as `\TrackLangProvidesResource` and `\TrackLangRequireResource`. (See below.)

The optional argument *<load code>* is the code that actually inputs the required file. This defaults to

```
\TrackLangRequireResource{\CurrentTrackedTag}
```

The `\IfTrackedLanguageFileExists` command sets up the current tracked dialect with `\SetCurrentTrackedDialect{<dialect>}`, which enables the following commands that may be used within *<>true part>* or *<>false part>*:

`\CurrentTrackedDialect`

The dialect label.

`\CurrentTrackedLanguage`

If the dialect hasn't been detected, this command will be empty, otherwise it will expand to the root language label (which may be the same as the dialect label).

`\CurrentTrackedRegion`

If the dialect hasn't been detected, this command will be empty. If the dialect has been assigned an ISO 3166-1 code, `\CurrentTrackedRegion` will expand to that code, otherwise it will be empty.

`\CurrentTrackedIsoCode`

If the dialect hasn't been detected, this command will be empty. Otherwise it may be empty or it may expand to the ISO 639-1 or ISO 639-2 or ISO 639-3 code.

As from version 1.3, the following are also available, but don't contribute to the tag.

`\CurrentTrackedDialectModifier`

The dialect's modifier or empty if not set.

`\CurrentTrackedDialectVariant`

The dialect's variant or empty if not set.

`\CurrentTrackedDialectSubTag`

The dialect's sub-language code or empty if not set.



```
\CurrentTrackedDialectAdditional
```

The dialect's additional information or empty if not set.

```
\CurrentTrackedLanguageTag
```

The dialect's language tag. Take care not to confuse this with `\CurrentTrackedTag`.

```
\CurrentTrackedDialectScript
```

The dialect's script. If the dialect doesn't have the script set, the default script is used instead. For example, the file `foo-serbian.ldf` could test for the existence of the file

```
foo-serbian-\CurrentTrackedDialectScript.ldf
```

and load it if it exists. The most convenient way is to use `\TrackLangRequestResource` (described below):

```
\TrackLangRequestResource  
{serbian-\CurrentTrackedDialectScript}  
{}% not found, set default code here
```

The Cyrillic settings could then be placed in `foo-serbian-Cyr1.ldf` and the Latin settings in `foo-serbian-Latn.ldf`.

The `<tag>` is determined as follows:

1. If no dialect with the given label has been detected, the condition evaluates to *false* and `\CurrentTrackedTag` is empty.
2. If there is no language code (ISO 639-1 or 639-2 or 639-3):
  - a) If there's also no ISO 3166-1 code (`\CurrentTrackedRegion` is empty), then `<tag>` (`\CurrentTrackedTag`) is set to the root language (`\CurrentTrackedLanguage`). If the file `<prefix><tag><suffix>` exists, the condition will evaluate to *true* otherwise it will evaluate to *false*.
  - b) If there is an ISO 3166-1 code, then `<tag>` (`\CurrentTrackedTag`) will be set to `\CurrentTrackedRegion` and if the file `<prefix><tag><suffix>` exists, the condition will evaluate to *true* otherwise it will evaluate to *false*.
3. If `\CurrentTrackedRegion` is empty (no ISO 3166-1 territory code) then the `<tag>` (`\CurrentTrackedTag`) is set to just `\CurrentTrackedIsoCode`.

If the file `<prefix><tag><suffix>` exists, the condition will evaluate to *true*. If the file doesn't exist and there are additional ISO language codes available (639-2 or 639-3) then the test will be repeated for the next code. If the test still fails, then the condition evaluates to *false*.

4. The `<tag>` (`\CurrentTrackedTag`) is then set to

```
\CurrentTrackedIsoCode-\CurrentTrackedRegion
```

and if the file  $\langle prefix \rangle \langle tag \rangle \langle suffix \rangle$  exists, the condition evaluates to *true*.

5. The  $\langle tag \rangle$  (`\CurrentTrackedTag`) is then set to just `\CurrentTrackedIsoCode`, and if the file  $\langle prefix \rangle \langle tag \rangle \langle suffix \rangle$  exists, the condition evaluates to *true*. If the file doesn't exist and there are other ISO codes (639-2 or 639-3), then `\CurrentTrackedIsoCode` is set to the next available language code and step 4 is retried.
6. If there is an ISO 3166-1 region code, the  $\langle tag \rangle$  (`\CurrentTrackedTag`) is then set to `\CurrentTrackedRegion`, and if the file  $\langle prefix \rangle \langle tag \rangle \langle suffix \rangle$  exists, the condition evaluates to *true*.
7. Finally, the  $\langle tag \rangle$  (`\CurrentTrackedTag`) is set to the root language label and if the file  $\langle prefix \rangle \langle tag \rangle \langle suffix \rangle$  exist the condition evaluates to *true* otherwise it evaluates to *false*.

For example (pre v1.3):

```
\AnyTrackedLanguages
{%
  \ForEachTrackedDialect{\ThisDialect}%
  {% try to load the language file for this dialect
    \IfTrackedLanguageFileExists{\ThisDialect}%
    {mypackage-}% file prefix
    {.ldf}% file suffix
    {\input mypackage-\CurrentTrackedTag.ldf}% file found
    {% file not found
      \PackageWarning{mypackage}{No support for language
        '\ThisDialect'}%
    }%
  }%
}
{% no languages detected so use defaults
}
```

With version 1.3 onwards, this can be written more concisely as:

```
\AnyTrackedLanguages
{%
  \ForEachTrackedDialect{\ThisDialect}%
  {% try to load the language file for this dialect
    \TrackLangRequireDialect{mypackage}{\ThisDialect}%
  }%
}
{% no languages detected so use defaults
}
```

which additionally enables the tracklang version 1.3 commands described below, such as `\TrackLangRequireResource`.

If, for example, `\ThisDialect` is `british`, then the file search will be in the order:

1. `mypackage-british.ldf`
2. `mypackage-en-GB.ldf`
3. `mypackage-eng-GB.ldf`
4. `mypackage-en.ldf`

5. mypackage-eng.ldf
6. mypackage-GB.ldf
7. mypackage-english.ldf

If, for example, `\ThisDialect` is `français`, then the file search will be in the order:

1. mypackage-français.ldf
2. mypackage-fr.ldf
3. mypackage-fra.ldf
4. mypackage-french.ldf

This is because the predefined `français` option has no region assigned to it. Be careful if the dialect label is the actual root language. For example, if `\ThisDialect` is `french`, then the file search will be in the order:

1. mypackage-french.ldf
2. mypackage-fr.ldf
3. mypackage-fra.ldf
4. mypackage-french.ldf

Note that the last try will always fail in this case since if the file exists, it will be found on the first try.

If you're only providing support for the root languages (pre v1.3):

```
\AnyTrackedLanguages
{%
  \ForEachTrackedLanguage{\ThisLanguage}%
  {% try to load the language file for this root language
    \IfTrackedLanguageFileExists{\ThisLanguage}%
    {mypackage-}% file prefix
    {.ldf}% file suffix
    {\input mypackage-\CurrentTrackedTag.ldf}% file found
    {% file not found
      \PackageWarning{mypackage}{No support for language
        '\ThisLanguage'}%
    }%
  }%
}
```

With version 1.3 onwards, this can be written more concisely as:

```
\AnyTrackedLanguages
{%
  \ForEachTrackedLanguage{\ThisLanguage}%
  {% try to load the language file for this root language
    \TrackLangRequireDialect{mypackage}{\ThisLanguage}%
  }%
}
```

```

    }%
  }
  {% no languages detected so use defaults
  }

```

which additionally enables the commands described below. Note that in this case, if more than one dialect for the same language has been tracked, only the hooks for the last dialect for that language will be adjusted, so it's usually best to iterate over the dialects.

The following `\TrackLang...Resource...` commands may only be used in resource files that are loaded using `\TrackLangRequireDialect`. An error will occur if the file is input through some other method.

Within the resource file `\langle pkgname \rangle - \langle tag \rangle . ldf`, you can identify the file using (new to version 1.3):

`\TrackLangProvidesResource`

```
\TrackLangProvidesResource{\langle tag \rangle}[\langle version info \rangle]
```

If `\ProvidesFile` is defined (through the  $\TeX$  kernel) this is used, otherwise a simplified generic alternative is used that's suitable for other  $\TeX$  formats.

The resource file can load another resource file `\langle pkgname \rangle - \langle tag2 \rangle . ldf`, using (new to version 1.3):

`\TrackLangRequireResource`

```
\TrackLangRequireResource{\langle tag2 \rangle}
```

For example, the dialect file `foo-en-GB. ldf` might need to load the root language resource file `foo-english. ldf`:

```
\TrackLangProvidesResource{en-GB}
\TrackLangRequireResource{english}
```

If `foo-english. ldf` is also identified with `\TrackLangProvidesResource`, this will ensure that it's only loaded once.

If you require the resource file and want to perform `\langle code1 \rangle` if it's loaded at this point or `\langle code2 \rangle` if it's already been loaded then you can use (new to version 1.3):

`\TrackLangRequireResourceOrDo`

```
\TrackLangRequireResourceOrDo{\langle tag2 \rangle}{\langle code1 \rangle}{\langle code2 \rangle}
```

If you want to load a resource file if it exists (without an error if it doesn't exist), then you can use

`\TrackLangRequestResource`

```
\TrackLangRequestResource{\langle tag2 \rangle}{\langle not found code \rangle}
```

If the file doesn't exist, `\langle not found code \rangle` is done.

Note that these `\...Resource` commands are only permitted within the resource files. They are internally enabled through `\TrackLangRequireDialect`.

The above restriction on the resource files loaded through `\TrackLangRequireDialect`, and the fact that it internally uses `\IfTrackedLanguageFileExists`, means that commands like `\CurrentTrackedLanguage` or `\CurrentTrackedDialect` may be used in those files. This means that the name of the captions hook can be obtained through them. (Remember that the file `foo-en-GB.ldf` might have been loaded with, say, the british dialect or with the synonymous `UKenglish` dialect or with a dialect label that doesn't have a corresponding caption hook, such as `enGBLatn`.)

The `polyglossia` package has caption hooks in the form `\captions<language>` whereas `babel` has caption hooks in the form `\captions<dialect>`. This leads to a rather cumbersome set of conditionals:

```
\ifcsundef{captions\CurrentTrackedLanguage}
{%
  \ifcsundef{captions\CurrentTrackedDialect}%
  {}%
  {%
    \csgappto{captions\CurrentTrackedDialect}{%
      % code to append to hook
    }%
  }%
}%
{%
  \csgappto{captions\CurrentTrackedLanguage}{%
    % code to append to hook
  }%
}%
}
% do code now to initialise
```

Note that the above has been simplified through the use of `etoolbox` commands, which isn't suitable for generic use. It also doesn't query the mapping from `tracklang`'s dialect label to the closest matching `babel` dialect label.

Instead (new to version 1.3), `tracklang` provides a command to perform this set of conditionals using generic code:

`\TrackLangAddToHook` `\TrackLangAddToHook{<code>}{<type>}`

where `<code>` is the code to append to the `<type>` hook. This always performs `<code>` after testing for the hook in case the hook is undefined or has already been called (for example, `ngerman` uses `\captionsngerman` when the package is loaded, not at the start of the document).

Note that this command is enabled through `\TrackLangRequireDialect` so should only be used inside resource files.

Since `captions` is a commonly used hook type, there's a shortcut command provided:

`\TrackLangAddToCaptions` `\TrackLangAddToCaptions{<code>}`

This is equivalent to `\TrackLangAddToHook{<code>}{captions}`.

## 4.1 Examples

The examples in this section illustrate the above commands.

### 4.1.1 animals.sty

This example is for a trivial package called `animals.sty` that defines three textual commands: `\catname`, `\dogname` and `\ladybirdname`. The default values are: “cat”, “dog” and “bishy-barney-bee”.<sup>1</sup>

The supported languages are defined in files with the prefix `animals-` and the suffix `.ldf`. Here’s the code for `animals.sty`:

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{animals}

\RequirePackage{tracklang}[2016/10/07] %v1.3

% Any undeclared options are language settings:
\DeclareOption*{\TrackLanguageTag{\CurrentOption}}
\ProcessOptions

% Default definitions
\newcommand\catname{cat}
\newcommand\dogname{dog}
\newcommand\ladybirdname{bishy-barney-bee}

\AnyTrackedLanguages
{%
  \ForEachTrackedDialect{\this@dialect}{%
    \TrackLangRequireDialect{animals}{\this@dialect}%
  }%
}
{% no tracked languages, default already set up
}

\endinput
```

Here’s a Plain T<sub>E</sub>X version that picks up the language from the locale environment variable:

```
\input tracklang

\TrackLangFromEnv

% Default definitions
\def\catname{cat}
\def\dogname{dog}
\def\ladybirdname{bishy-barney-bee}

\AnyTrackedLanguages
{%
  \ForEachTrackedDialect{\this@dialect}{%
    \TrackLangRequireDialect{animals}{\this@dialect}%
  }%
}
{% no tracked languages, default already set up
}
```

---

<sup>1</sup>Thass Broad Norfolk, my bewties :-P

In the event that a user or supplementary package for some reason wants to load a resource file for a language that hasn't been tracked, it might be worth providing a command for this purpose:

```
\newcommand*\RequireAnimalsDialect}[1]{%
  \TrackLangRequireDialect{animals}{#1}%
}
```

The loop can then be changed to:

```
\ForEachTrackedDialect{\this@dialect}{%
  \RequireAnimalsDialect\this@dialect
}%
```

The `animals-english.ldf` file valid for both the Plain  $\TeX$  and  $\LaTeX$  formats contains:

```
\TrackLangProvidesResource{english}

\def\englishanimals{%
  \def\catname{cat}%
  \def\dogname{dog}%
  \def\ladybirdname{bishy-barney-bee}%
}

\TrackLangAddToCaptions{\englishanimals}
```

The `animals-en-GB.ldf` file contains:

```
\TrackLangProvidesResource{en-GB}
\TrackLangRequireResource{english}

\def\enGBanimals{%
  \englishanimals
  \def\ladybirdname{ladybird}%
}

\TrackLangAddToCaptions{\enGBanimals}
```

The `animals-en-US.ldf` file contains:

```
\TrackLangProvidesResource{en-US}
\TrackLangRequireResource{english}

\def\enUSanimals{%
  \englishanimals
  \def\ladybirdname{ladybug}%
}

\TrackLangAddToCaptions{\enUSanimals}
```

Here's a German version in the file `animals-german.ldf`:

```
\TrackLangProvidesResource{german}

\def\germananimals{%
  \def\catname{Katze}%
  \def\dogname{Hund}%
  \def\ladybirdname{Marienk\"afer}%
}

\TrackLangAddToCaptions{\germananimals}
```

This means that if `babel` or `polyglossia` are loaded, the redefinitions are automatically performed whenever the language is changed, but if there's no caption mechanism the user can switch the fixed names using the `\...animals` commands.

Here's an example  $\LaTeX$  document that doesn't have any caption hooks:

```
\documentclass[english,german,a4paper]{article}

\usepackage{animals}

\begin{document}
\englishanimals

\catname.
\dogname.
\ladybirdname.

\germananimals

\catname.
\dogname.
\ladybirdname.
\end{document}
```

Here's a `babel` example document:

```
\documentclass[american,german,british,a4paper]{article}

\usepackage{babel}
\usepackage{animals}

\begin{document}
\selectlanguage{american}

\catname.
\dogname.
\ladybirdname.

\selectlanguage{german}

\catname.
\dogname.
\ladybirdname.

\selectlanguage{british}

\catname.
\dogname.
\ladybirdname.

\end{document}
```

There is some redundancy with the above resource files. Consider the `babel` example above. The `american` dialect is the first option, so in that case `animals-en-US.1df` is loaded followed by `animals-english.1df`. This means that the `\captionsamerican` hook now includes

```
\englishanimals
\enUSanimals
```



Since `\enUSanimals` includes `\englishanimals`, there is redundant code. However, when the british dialect is processed, this loads the file `animals-en-GB.ldf` but not the file `animals-english.ldf` (since it's already been loaded). This means that `\captionsbritish` contains `\enGBanimals` but not `\englishanimals`.

If this redundancy is an issue (for example, there are so many redefinitions needed that it significantly slows the document build process), then it can be addressed with the following modifications. The `animals-en-GB.ldf` file is now:

```
\TrackLangProvidesResource{en-GB}

\def\enGBanimals{%
  \englishanimals
  \def\ladybirdname{ladybird}%
}

\TrackLangRequireResourceOrDo{english}%
{
  \TrackLangAddToCaptions{%
    \def\ladybirdname{ladybird}%
  }%
}
{
  \TrackLangAddToCaptions{\enGBanimals}
}
```

The `animals-en-US.ldf` file is now:

```
\TrackLangProvidesResource{en-US}

\providecommand*\enUSanimals{%
  \englishanimals
  \renewcommand*\ladybirdname{ladybug}%
}

\TrackLangRequireResourceOrDo{english}
{
  \TrackLangAddToCaptions{%
    \renewcommand*\ladybirdname{ladybird}%
  }%
}
{
  \TrackLangAddToCaptions{\enUSanimals}{captions}
}
```

This means that the document that has the dialects listed in the order `american, british` now has

```
\englishanimals
\def\ladybirdname{ladybird}
```

in the `\captionsbritish` hook and just `\enUSanimals` in the `\captionsamerican` hook, which has removed most of the redundancy.

Note that `polyglossia` has a `\captionsenglish` hook but not `\captionsamerican` or `\captionsbritish`, so this code doesn't allow for switching between variants of the same language with `polyglossia`.

### 4.1.2 regions.sty

Earlier, I mentioned the search order for `\IfTrackedLanguageFileExists` where if, for example, the dialect is `british`, the file search will be:

1. `mypackage-british.ldf`
2. `mypackage-en-GB.ldf`
3. `mypackage-eng-GB.ldf`
4. `mypackage-en.ldf`
5. `mypackage-eng.ldf`
6. `mypackage-GB.ldf`
7. `mypackage-english.ldf`

You may have wondered why `mypackage-GB.ldf` is included in the search given that some countries have multiple official languages, which means that the country code on its own may not indicate the language.

The reason for including just the country code as the *<tag>* in the file search is to allow for region rather than language dependent settings. For example, suppose I want to write a package that needs to know whether to use imperial or metric measurements in the document, but I also want to provide multilingual support. The language alone won't tell me whether to use imperial or metric (for example, the US uses imperial and the UK uses metric for most product attributes). I could provide `.ldf` files for every language and region combination, but this would result in a lot of redundancy.

`\TrackLangRequireDialect` has an optional argument for adjusting the way the resource files are loaded. Suppose I have `regions-<tag>.ldf` resource files, then

```
\TrackLangRequireDialect{regions}{\this@dialect}
```

loads the resource file for the dialect given by `\this@dialect` using

```
\TrackLangRequireResource{\CurrentTrackedTag}
```

I can use the optional argument to also load the resource file for the root language as well:

```
\newcommand*{\RequireRegionsDialect}[1]{%
  \TrackLangRequireDialect
    [\TrackLangRequireResource{\CurrentTrackedTag}%
     \TrackLangRequireResource{\CurrentTrackedLanguage}%
    ]%
  {regions}{#1}%
}
```

Now the dialect `british` can load both `regions-GB.ldf` and `regions-english.ldf`.

The example package (`regions.sty`) below illustrates this.

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{regions}
```

```

\RequirePackage{tracklang}[2016/10/07]

\DeclareOption*{\TrackLanguageTag{\CurrentOption}}
\ProcessOptions

\newcommand*{\weightunit}{kg}
\newcommand*{\lengthunit}{mm}
\newcommand*{\currencyunit}{EUR}

\newcommand*{\unitname}{units}

\newcommand*{\RequireRegionsDialect}[1]{%
  \TrackLangRequireDialect
    [\TrackLangRequireResource{\CurrentTrackedTag}%
     \TrackLangRequireResource{\CurrentTrackedLanguage}%
    ]%
  {regions}{#1}%
}

\AnyTrackedLanguages
{%
  \ForEachTrackedDialect{\this@dialect}{%
    \RequireRegionsDialect\this@dialect
  }%
}
{% no tracked languages, default already set up
}

\endinput

```

There are separate .ldf files for region and language. First are the regions.

- regions-BE.ldf (Belgium):

```

\TrackLangProvidesResource{BE}

\providecommand*{\BEunits}{%
  \renewcommand*{\weightunit}{kg}%
  \renewcommand*{\lengthunit}{mm}%
  \renewcommand*{\currencyunit}{EUR}%
}

\TrackLangAddToCaptions{\BEunits}

```

- regions-CA.ldf (Canada):

```

\TrackLangProvidesResource{CA}

\providecommand*{\CAunits}{%
  \renewcommand*{\weightunit}{kg}%
  \renewcommand*{\lengthunit}{mm}%
  \renewcommand*{\currencyunit}{CAD}%
}

\TrackLangAddToCaptions{\CAunits}

```

- regions-GB.ldf (Great Britain):

```

\TrackLangProvidesResource{GB}

\providecommand*\GBunits{%
  \renewcommand*\weightunit{kg}%
  \renewcommand*\lengthunit{mm}%
  \renewcommand*\currencyunit{GBP}%
}

\TrackLangAddToCaptions{\GBunits}

```

- regions-US.ldf (USA):

```

\TrackLangProvidesResource{US}

\providecommand*\USunits{%
  \renewcommand*\weightunit{lb}%
  \renewcommand*\lengthunit{in}%
  \renewcommand*\currencyunit{USD}%
}

\TrackLangAddToCaptions{\USunits}

```

Now the language files:

- regions-dutch.ldf:

```

\TrackLangProvidesResource{dutch}

\providecommand*\dutchnames{%
  \renewcommand*\unitname{meeteenheden}%
}

\TrackLangAddToCaptions{\dutchnames}

```

- regions-english.ldf:

```

\TrackLangProvidesResource{english}

\providecommand*\englishnames{%
  \renewcommand*\unitname{units}%
}

\TrackLangAddToCaptions{\englishnames}

```

- regions-french.ldf:

```

\TrackLangProvidesResource{french}

\providecommand*\frenchnames{%
  \renewcommand*\unitname{unit'es}%
}

\TrackLangAddToCaptions{\frenchnames}

```

- `regions-german.ldf`:

```
\TrackLangProvidesResource{french}

\providecommand*\germannames}{%
  \renewcommand*\unitname}{Ma\ss einheiten}%
}

\TrackLangAddToCaptions{\germannames}
```

Here's an example document that uses this package:

```
\documentclass[canadien]{article}

\usepackage{regions}

\begin{document}

\unitname: \weightunit, \lengthunit, \currencyunit.

\end{document}
```

This works because the `<tag>` search looks for the country code before the root language label. However, this will fail if the dialect label is the same as a root language label that has an associated territory, marked with <sup>†</sup> in [table 1.2](#), as then it will be picked up before the country code.

In the above example, `regions-CA.ldf` is matched rather than `regions-french.ldf`, so `regions-CA.ldf` is loaded by

```
\TrackLangRequireResource{\CurrentTrackedTag}
```

After this, the language file `regions-french.ldf` is then loaded:

```
\TrackLangRequireResource{\CurrentTrackedLanguage}
```

This assumes that there's a country code `.ldf` file available. This example needs a little modification to use default units in case the region is missing:

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{regions}

% Pass all options to tracklang:
\DeclareOption*{\PassOptionsToPackage{\CurrentOption}{tracklang}}
\ProcessOptions

\RequirePackage{tracklang}

\newcommand*\weightunit}{kg}
\newcommand*\lengthunit}{mm}
\newcommand*\currencyunit}{EUR}

\newcommand*\unitname}{units}

\newcommand*\defaultunits}{%
  \renewcommand*\weightunit}{kg}%
  \renewcommand*\lengthunit}{mm}%
  \renewcommand*\currencyunit}{EUR}%
}
```

```

\newcommand*{\RequireRegionsDialect}[1]{%
  \TrackLangRequireDialect
  [\TrackLangRequireResource{\CurrentTrackedTag}%
   \ifx\CurrentTrackedTag\CurrentTrackedLanguage
     \TrackLangAddToCaptions{\defaultunits}%
   \else
     \TrackLangRequireResource{\CurrentTrackedLanguage}%
   \fi
  ]%
  {regions}{#1}%
}

\AnyTrackedLanguages
{%
  \ForEachTrackedDialect{\this@dialect}{%
    \RequireRegionsDialect\this@dialect
  }%
}
{% no tracked languages, default already set up
}

\endinput

```

Note that we still have a problem for dialect labels that are identical to root language labels with an associated territory (such as manx). This case can be checked with the following adjustment:

```

\newcommand*{\RequireRegionsDialect}[1]{%
  \TrackLangRequireDialect
  [\TrackLangRequireResource{\CurrentTrackedTag}%
   \ifx\CurrentTrackedTag\CurrentTrackedLanguage
     \ifx\CurrentTrackedRegion\empty
       \TrackLangAddToCaptions{\defaultunits}%
     \else
       \TrackLangRequireResource{\CurrentTrackedRegion}%
     \fi
   \else
     \TrackLangRequireResource{\CurrentTrackedLanguage}%
   \fi
  ]%
  {regions}{#1}%
}

```

In the case where both the dialect and root language label are manx with the resource files regions-manx.ldf and regions-IM.ldf, then \CurrentTrackedTag will be manx (the dialect label) so regions-manx.ldf will be loaded with:

```
\TrackLangRequireResource{\CurrentTrackedTag}
```

In this case \CurrentTrackedRegion is IM (that is, it's not empty) so then regions-IM.ldf will be loaded with:

```
\TrackLangRequireResource{\CurrentTrackedRegion}
```

Here's another document that sets up dialects with tracklang labels that aren't recognised by babel. This means that there's no corresponding \captions... hook for either the dialect

label or the root language label, so mappings need to be defined from the tracklang dialect label to the matching babel dialect label.

```
\documentclass{article}

\usepackage{tracklang}

\TrackLanguageTag{de-US-1996}
\SetTrackedDialectLabelMap{\TrackLangLastTrackedDialect}{ngerman}

\TrackLanguageTag{en-MT}
\SetTrackedDialectLabelMap{\TrackLangLastTrackedDialect}{UKenglish}

\usepackage[main=ngerman,UKenglish]{babel}
\usepackage{regions}

\begin{document}
\selectlanguage{ngerman}

\unitname: \weightunit, \lengthunit, \currencyunit.

\selectlanguage{UKenglish}

\unitname: \weightunit, \lengthunit, \currencyunit.

\end{document}
```

This produces:

Maßeinheiten: lb, in, USD.

units: kg, mm, EUR.

Compare this with:

```
\documentclass{article}

\usepackage[main=ngerman,UKenglish]{babel}
\usepackage{regions}

\begin{document}
\selectlanguage{ngerman}

\unitname: \weightunit, \lengthunit, \currencyunit.

\selectlanguage{UKenglish}

\unitname: \weightunit, \lengthunit, \currencyunit.

\end{document}
```

which produces:

Maßeinheiten: kg, mm, EUR.

units: kg, mm, GBP.

Note that these mappings aren't needed if babel is loaded with the root language labels instead. For example:

```

\documentclass{article}

\usepackage{tracklang}

\TrackLanguageTag{de-US-1996}
\SetTrackedDialectLabelMap{\TrackLangLastTrackedDialect}{ngerman}

\TrackLanguageTag{en-MT}

\usepackage[main=ngerman,english]{babel}
\usepackage{regions2}

\begin{document}
\selectlanguage{ngerman}

\unitname: \weightunit, \lengthunit, \currencyunit.

\selectlanguage{english}

\unitname: \weightunit, \lengthunit, \currencyunit.

\end{document}

```

No mapping is required for the en-MT locale as it can pick up `\captionsenglish` when `\TrackLangAddToHook` (used by `\TrackLangAddToCaptions`) queries the root language label after failing to find the language hook from the dialect label.

Some of the predefined tracklang dialects come with a mapping to the closest matching babel dialect label. For example, the option `ngermanDE` listed in [table 1.3](#) automatically provides a mapping to `ngerman`. Since a tracklang dialect label can only map to one babel label, this can be problematic for synonymous labels such as `british/UKenglish` or `american/USenglish`. The default mappings used by tracklang are shown in [table 1.3](#).



## 5 Adding Support for Language Tracking

If you are writing a package that *sets up* the document languages (rather than a package that provides multilingual support if the user has already loaded a language package) then you can load `tracklang` and use the commands below to help other packages track your provided languages.

The `tracklang` package can be loaded using

```
\input tracklang
```

or (L<sup>A</sup>T<sub>E</sub>X only)

```
\RequirePackage{tracklang}
```

When using L<sup>A</sup>T<sub>E</sub>X, there's a difference between the two. The first case prevents `tracklang` from picking up the document class options but skips the check for known language packages. This check is redundant since this is the language package, so the thing to decide is whether or not to allow the user to set up the localisation information through the document class options.

(If you just use `\input`, there's a test at the start of `tracklang.tex` to determine if it's already been loaded, so you don't need to worry if the user has already loaded it.)

When the language is set (using commands like `\selectlanguage`) it would be convenient to users and other packages if the following command is also used:

```
\SetCurrentTrackedDialect
```

```
\SetCurrentTrackedDialect{<dialect>}
```

where `<dialect>` may be the `tracklang` dialect label, or the mapped label previously set through `\SetTrackedDialectLabelMap`, described below, or the language label (in which case the last dialect to be tracked with that root language will be assumed).

This will make the following commands available which may be of use to other packages:

- `\CurrentTrackedDialect` The dialect label recognised by `tracklang` (which may not be the same as `<dialect>`).
- `\CurrentTrackedLanguage` The root language label used by `tracklang`.
- `\CurrentTrackedDialectModifier` The dialect modifier.
- `\CurrentTrackedDialectVariant` The dialect variant.
- `\CurrentTrackedDialectScript` The dialect script. Note that if `tracklang-scripts` is also loaded, this allows the script direction to be accessed using

```
\TrackLangScriptAlphaToDir{\CurrentTrackedDialectScript}
```

See Section 6.5 for further details.

- `\CurrentTrackedDialectSubLang` The dialect sub-language code.
- `\GetTrackedDialectAdditional` The dialect's additional information.
- `\CurrentTrackedIsoCode` The dialect's root language ISO code. (The first found in the sequence 639-1, 639-2, 639-3.)
- `\CurrentTrackedRegion` The dialect's ISO 3166-1 region code.
- `\CurrentTrackedLanguageTag` The dialect's language tag.

(Without this automated use of `\SetCurrentTrackedDialect`, the same information can be picked up using commands like `\GetTrackedDialectScript`, but that's less convenient, especially if `\language` needs to be converted to  $\langle dialect \rangle$ . See the accompanying sample file `sample-setlang.tex` for an example.)

When the user requests a particular dialect through your language package, you can notify `tracklang` of this choice using

```
\TrackPredefinedDialect{ $\langle dialect \rangle$ }
```

if the dialect label is recognised by `tracklang` (all those listed in tables 1.1, 1.2 and 1.3).

If there's no matching dialect predefined by `tracklang`, you can just use `\TrackLocale` or `\TrackLanguageTag` (described in Section 3) with the appropriate ISO codes *if you're not providing caption hooks*.

If you are providing a captions hook mechanism in the form `\captions{ $\langle dialect \rangle$ }`, then if  $\langle dialect \rangle$  doesn't match the corresponding `tracklang` dialect label, you can provide a mapping using `\SetTrackedDialectLabelMap`, described below.

For compatibility with pre version 1.3, if the dialect isn't predefined by `tracklang`, then you can use:

```
\AddTrackedDialect \AddTrackedDialect{ $\langle dialect \rangle$ }{ $\langle root language label \rangle$ }
```

where  $\langle root language label \rangle$  is the label for the dialect's root language (table 1.2) and  $\langle dialect \rangle$  matches the captions hook. If the dialect is already in the tracked dialect list, it won't be added again. If the root language is already in the tracked language list, it won't be added again. As from version 1.3 this additionally defines:

```
\TrackLangLastTrackedDialect \TrackLangLastTrackedDialect
```

to  $\langle dialect \rangle$  for convenient reference if required. Note that `\AddTrackedDialect` is internally used by commands like `\TrackPredefinedDialect`, `\TrackLocale` and `\TrackLanguageTag`.

(New to version 1.3.) Many of the `tracklang` dialect labels don't have a corresponding match in various language packages. For example, `tracklang` provides `ngermanDE` but the closest

match in babel is ngerman. This means that the caption hook `\captionsgerman` can't be accessed through

```
\csname captions\CurrentTrackedDialect\endcsname
```

in the resource files. In this case, a mapping may be defined between the tracklang dialect label and the closest matching label used by the language hooks. This is done through

```
\SetTrackedDialectLabelMap \SetTrackedDialectLabelMap{<from>}{<to>}
```

where *<from>* is the tracklang label and *<to>* is the language hook label. For example:

```
\TrackLanguageTag{de-AR-1996}
\SetTrackedDialectLabelMap{\TrackLangLastTrackedDialect}{ngerman}
```

Since `\TrackLanguageTag` internally uses `\AddTrackedDialect` the dialect label created by tracklang can be accessed using `\TrackLangLastTrackedDialect`. This means that `\TrackLangAddToCaptions` can now find the `\captionsgerman` hook even though the tracklang dialect label isn't ngerman.

(New to version 1.3.) If the root language label is recognised by tracklang, you can add the ISO codes using:

```
\AddTrackedLanguageIsoCodes \AddTrackedLanguageIsoCodes{<root language>}
```

As from v1.3, you can also provide a modifier for a given dialect using:

```
\SetTrackedDialectModifier \SetTrackedDialectModifier{<dialect>}{<value>}
```

where *<dialect>* is the dialect label and *<value>* is the modifier value. For example:

```
\AddTrackedDialect{oldgerman}{german}
\AddTrackedLanguageIsoCodes{german}
\SetTrackedDialectModifier{oldgerman}{old}
```

Note that no sanitization is performed on *<value>* when the modifier is set explicitly through `\SetTrackedDialectModifier`, since it's assumed that any package that specifically sets the modifier in this way is using a sensible labelling system. If the modifier is obtained through commands like `\TrackLocale`, then the modifier is sanitized as the value may have been obtained from the operating system and there's no guarantee that it won't contain problematic characters.

The modifier is typically obtained by parsing locale information in POSIX format.

```
<language>[_<territory>][.<codeset>][@<modifier>]
```

whereas the variant is typically obtained by parsing the language tag.

The information provided in the commands below (such as the script) are typically obtained by parsing the language tag. For example, with Serbian in the Latin alphabet the modifier would be `latin` whereas the script would be `Latn`:

```

\AddTrackedDialect{serbianlatin}{serbian}
\AddTrackedLanguageIsoCodes{serbian}
\SetTrackedDialectModifier{serbianlatin}{latin}
\SetTrackedDialectScript{serbianlatin}{Latn}

```

As from v1.3, you can provide a script (for example, “Latn” or “Cyr1”) using:

```

\SetTrackedDialectScript \SetTrackedDialectScript{<dialect>}{<value>}

```

where *<dialect>* is the dialect label and *<value>* is the four letter script identifier. For example:

```

\AddTrackedDialect{serbiancyr1}{serbian}
\AddTrackedLanguageIsoCodes{serbian}
\SetTrackedDialectScript{serbiancyr1}{Cyr1}

```

As from v1.3, you can provide a variant for a given dialect using:

```

\SetTrackedDialectVariant \SetTrackedDialectVariant{<dialect>}{<value>}

```

For example:

```

\AddTrackedDialect{german1901}{german}
\SetTrackedDialectVariant{german1901}{1901}

```

As from v1.3, you can also provide a sub-language using:

```

\SetTrackedDialectSubLang \SetTrackedDialectSubLang{<dialect>}{<value>}

```

where *<dialect>* is the dialect label and *<value>* is the code. For example:

```

\AddTrackedDialect{mandarin}{chinese}
\AddTrackedLanguageIsoCodes{chinese}
\SetTrackedDialectSubLang{mandarin}{cmn}
\AddTrackedIsoLanguage{639-3}{cmn}{mandarin}

```

As from v1.3, you can also provide additional information using:

```

\SetTrackedDialectAdditional \SetTrackedDialectAdditional{<dialect>}{<value>}

```

where *<dialect>* is the dialect label and *<value>* is the additional information.

(New to version 1.3.) If the root language isn’t recognised by tracklang (not listed in [table 1.2](#)), then it can be defined (but not tracked at this point) using:

```

\TrackLangNewLanguage \TrackLangNewLanguage{<language name>}{<639-1 code>}{<639-2 (T)>}{<639-2 (B)>}{<639-3>}{<3166-1>}{<default script>}

```

where *<language name>* is the root language name, *<639-1 code>* is the ISO 639-1 code for that language (may be empty if there isn’t one), *<639-2 (T)>* is the ISO 639-2 (T) code for that language (may be empty if there isn’t one), *<639-2 (B)>* is the ISO 639-2 (B) code for that language (may be empty if it’s the same as *<639-2 (T)>*), *<639-3>* is the ISO 639-3 code for

that language (empty if the same as the 639-2 code),  $\langle 3166-1 \rangle$  is the territory ISO code for languages that are only spoken in one territory (should be empty if the language is spoken in multiple territories), and  $\langle \textit{default script} \rangle$  is the default script (empty if disputed or varies according to region).

You can then track this language using `\AddTrackedDialect` for dialects or, if no regional variant is needed, you can instead use:

`\AddTrackedLanguage`

```
\AddTrackedLanguage{ $\langle \textit{root language label} \rangle$ }
```

This is equivalent to `\AddTrackedDialect{ $\langle \textit{root language label} \rangle$ }{ $\langle \textit{root language label} \rangle$ }`.

Suppose I want to create a language package `alien.sty` that defines the martian language with regional dialects `lowermartian` and `uppermartian`. First, let's suppose that `tracklang` recognises the root language `martian`:

```
\ProvidesPackage{alien}

\input{tracklang}% v1.3

\DeclareOption{martian}{%
  \TrackPredefinedDialect{martian}
}
\DeclareOption{lowermartian}{%
  \AddTrackedDialect{lowermartian}{martian}
  \AddTrackedIsoCodes{martian}
  \AddTrackedIsoLanguage{3166-1}{YY}{lowermartian}
  % other attributes such as
  % \SetTrackedDialectVariant{lowermartian}{...}
}
\DeclareOption{uppermartian}{%
  \AddTrackedDialect{uppermartian}{martian}
  \AddTrackedIsoCodes{martian}
  \AddTrackedIsoLanguage{3166-1}{XX}{uppermartian}
  % other attributes such as
  % \SetTrackedDialectVariant{uppermartian}{...}
}

\ProcessOptions

\newcommand*\selectlanguage[1]{%
  \def\languagename{#1}%
  % other stuff
  \SetCurrentTrackedDialect{#1}%
}

\AnyTrackedLanguages
{
  \ForEachTrackedDialect{\thisdialect}
  {%
    \TrackLangRequireDialect{alien}{\thisdialect}
  }
}
```

The caption commands and language set up are in the files `alien- $\langle \textit>tag \rangle$ .ldf` as in the examples from Section 4.1. This allows for the user having already loaded `tracklang` before `alien` and used `\TrackLangFromEnv` to pick up the locale from the operating system's environment variables. (For example, they may have `LANG` set to `xx_YY`.)

The resource files may need to set the mapping between the tracklang dialect label and the alien dialect label. For example, in `alien-xx-YY.ldf`:

```
\TrackLangProvidesResource{xx-YY}

\TrackLangRequireResource{martian}% load common elements

\newcommand{\captionslowermartian}{%
  \captionsmartian
  \def\contentsname{X'flurp}% regional variation
}

\SetTrackedDialectLabelMap{\CurrentTrackedDialect}{lowermartian}
```

Now let's consider the case where tracklang doesn't know about the martian language. In this case the user can't track the dialect until the root language has been defined, so the user can't use `\TrackLangFromEnv` before using the alien package.

With tracklang v1.3. The new root language can be defined with a minor adjustment to the above code:

```
\ProvidesPackage{alien}

\input{tracklang}% needs v1.3

\TrackLangIfKnownLang{martian}
{ }% tracklang already knows about the martian language
{
  % tracklang doesn't know about the martian language, so define it
  % with ISO 639-1 (xx) and ISO 639-2 (xxx) codes:
  \TrackLangNewLanguage{martian}{xx}{xxx}{-}{-}{Latn}
}
```

The rest is as before.

Now other package writers who want to provide support for the Martian dialects can easily detect which language options the user requested through my package, *without needing to know anything about my alien package*.

## 6 The Code

### 6.1 L<sup>A</sup>T<sub>E</sub>X Code (tracklang.sty)

To ensure maximum portability this file only uses L<sup>A</sup>T<sub>E</sub>X kernel commands, rather than using more convenient commands provided by packages such as etoolbox.

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{tracklang}[2017/03/25 v1.3.4 (NLCT) Track Languages]
```

`\@tracklang@declareoption` Set up package options.

```
\providecommand*\@tracklang@declareoption}[1]{%
  \DeclareOption{#1}{\TrackPredefinedDialect{#1}}%
}
```

Load generic code:

```
\input{tracklang}
```

There are no other options as this package will typically be loaded using `\RequirePackage` by a package. Explicitly adding an option at that point might create a package option clash. The declared package options are all the possible language names that might be passed as a document class option. (Also, adding any non-language options here will interfere with `\@tracklang@declaredoptions`.)

```
\let\@tracklang@declaredoptions\@declaredoptions
\ProcessOptions
```

Unset `\@tracklang@declareoption`:

```
\let\@tracklang@declareoption\@gobble
```

In the event that the language hasn't been supplied through the package options (or through the class options, which the package options should process provided the document class has used the standard option declarations) we need to check if any of the known language packages have been loaded. This is a bit risky as it relies on the packages not changing their internal language macros. It would be easier if all the language packages could provide a reliable user interface to determine which languages (and variants) have been loaded.

```
\ifx\@tracklang@languages\@empty
```

First try babel. If babel has been loaded, the languages are stored in `\bbl@loaded`, so check if this command has been defined, and if it has add those languages.

```
\@ifundefined{bbl@loaded}%
  {%
```

If translator has been loaded, the languages are stored in `\trans@languages`

```
\@ifundefined{trans@languages}
  {%
```

Has ngerman been loaded?

```
\@ifpackageloaded{ngerman}%  
{%  
  \@tracklang@add@ngerman  
}%  
{%
```

Has german been loaded?

```
\@ifpackageloaded{german}%  
{%  
  \@tracklang@add@german  
}%  
{%
```

Has polyglossia been loaded?

```
\@ifpackageloaded{polyglossia}  
{%
```

polyglossia sets `\<lang>@loaded` for each loaded language, so check this for all known languages. I don't know how to consistently check for variants. (Conditionals such as `\if@british@locale` are set immediately with `\setotherlanguage` but are deferred to the start of the document with `\setmainlanguage`, which is too late for `tracklang`.) Script names seem to be stored in `\xpg:scripttag@<language>` but again this doesn't seem to be set for the main language until the start of the document.

```
\@for\this@language:=\@tracklang@declaredoptions\do{%  
  \@ifundefined{\this@language @loaded}%  
  {%  
    {\@nameuse{@tracklang@add@\this@language}}%  
  }%  
}%  
{%
```

None of the known packages have been loaded, so do nothing in case another package wants to load this one before setting up the language options. However, if at this point `babel` has been loaded, then it's an older version that hasn't defined `\bbl@loaded` so check for this.

```
\@ifpackageloaded{babel}  
{%  
  \PackageInfo{tracklang}{babel loaded but  
  \string\bbl@loaded\space not defined. Will attempt  
  to track known languages.}%  
  \@for\this@language:=\@tracklang@declaredoptions\do{%  
    \@ifundefined{captions\this@language}%  
    {%  
      {\@nameuse{@tracklang@add@\this@language}}%  
    }%  
  }%  
}%  
}%  
}%  
}%  
{%
```

Add from translator. If translator has been loaded, the language names are stored in `\trans@languages` but these are labels used by translator, so some mapping is required.

```
\let\@tracklang@add@Acadian\@tracklang@add@acadian  
\let\@tracklang@add@French\@tracklang@add@french  
\let\@tracklang@add@Afrikaans\@tracklang@add@afrikaans
```



```

\let\@tracklang@add@Dutch\@tracklang@add@dutch
\let\@tracklang@add@AmericanEnglish\@tracklang@add@american
\let\@tracklang@add@Austrian\@tracklang@add@austrian
\@namedef{@tracklang@add@Austrian1997}{\@tracklang@add@naustrian}
\let\@tracklang@add@Bahasa\@tracklang@add@bahasa
\let\@tracklang@add@Basque\@tracklang@add@basque
\let\@tracklang@add@Brazilian\@tracklang@add@brazil
\let\@tracklang@add@Portuguese\@tracklang@add@portuguese
\let\@tracklang@add@Breton\@tracklang@add@breton
\let\@tracklang@add@BritishEnglish\@tracklang@add@british
\let\@tracklang@add@Bulgarian\@tracklang@add@bulgarian
\let\@tracklang@add@Canadian\@tracklang@add@canadian
\let\@tracklang@add@Canadien\@tracklang@add@canadien
\let\@tracklang@add@Catalan\@tracklang@add@catalan
\let\@tracklang@add@Croatian\@tracklang@add@croatian
\let\@tracklang@add@Czech\@tracklang@add@czech
\let\@tracklang@add@Danish\@tracklang@add@danish
\let\@tracklang@add@Dutch\@tracklang@add@dutch
\let\@tracklang@add@English\@tracklang@add@english
\let\@tracklang@add@Esperanto\@tracklang@add@esperanto
\let\@tracklang@add@Estonian\@tracklang@add@estonian
\let\@tracklang@add@Finnish\@tracklang@add@finnish
\let\@tracklang@add@French\@tracklang@add@french
\let\@tracklang@add@Galician\@tracklang@add@galician
\let\@tracklang@add@German\@tracklang@add@german
\@namedef{@tracklang@add@German1997}{\@tracklang@add@ngerman}
\let\@tracklang@add@Greek\@tracklang@add@greek
\let\@tracklang@add@Polutoniko\@tracklang@add@polutoniko
\let\@tracklang@add@Hebrew\@tracklang@add@hebrew
\let\@tracklang@add@Hungarian\@tracklang@add@hungarian
\let\@tracklang@add@Icelandic\@tracklang@add@icelandic
\let\@tracklang@add@Irish\@tracklang@add@irish
\let\@tracklang@add@Italian\@tracklang@add@italian
\let\@tracklang@add@Latin\@tracklang@add@latin
\let\@tracklang@add@LowerSorbian\@tracklang@add@lowersorbian
\let\@tracklang@add@Magyar\@tracklang@add@magyar
\let\@tracklang@add@Nynorsk\@tracklang@add@nynorsk
\let\@tracklang@add@Norsk\@tracklang@add@norsk
\let\@tracklang@add@Polish\@tracklang@add@polish
\let\@tracklang@add@Portuguese\@tracklang@add@portuguese
\let\@tracklang@add@Romanian\@tracklang@add@romanian
\let\@tracklang@add@Russian\@tracklang@add@russian
\let\@tracklang@add@Scottish\@tracklang@add@scottish
\let\@tracklang@add@Serbian\@tracklang@add@serbian
\let\@tracklang@add@Slovak\@tracklang@add@slovak
\let\@tracklang@add@Slovene\@tracklang@add@slovene
\let\@tracklang@add@Spanish\@tracklang@add@spanish
\let\@tracklang@add@Swedish\@tracklang@add@swedish
\let\@tracklang@add@Turkish\@tracklang@add@turkish
\let\@tracklang@add@Ukrainian\@tracklang@add@ukrainian
\let\@tracklang@add@UpperSorbian\@tracklang@add@uppersorbian
\let\@tracklang@add@Welsh\@tracklang@add@welsh

```

Now iterate through the declared languages:

```

\@for\this@language:=\trans@languages\do{%
  \ifundefined{@tracklang@add@\this@language}{}%
  {\@nameuse{@tracklang@add@\this@language}}%
}%
}%
{%

```

Add from babel

```
\@for\this@language:=\bbl@loaded\do{%
  \@ifundefined{@tracklang@add@\this@language}%
  {%
    \PackageWarning{tracklang}%
      {Adding unknown babel language ‘\this@language’}%
    \AddTrackedLanguage{\this@language}%
  }%
  {\@nameuse{@tracklang@add@\this@language}}%
}%
```

If babel has been loaded with serbian, then the script needs to be set to Latn. (The Cyrillic script is provided with serbianc.)

```
\ifx\captionsserbian\undefined
\else
  \SetTrackedDialectScript{serbian}{Latn}%
\fi
}
```

End of check for language packages

```
\fi
```

## 6.2 Generic Code (tracklang.tex)

Does the category code of @ need changing?

```
\@tracklang@restore@at
\ifnum\catcode'\@=11\relax
  \def\@tracklang@restore@at{%
\else
  \expandafter\edef\csname @tracklang@restore@at\endcsname{%
    \noexpand\catcode'\noexpand\@=\number\catcode'\@\relax
  }%
  \catcode'\@=11\relax
\fi
```

First check if this file has already been loaded:

```
\ifx\@tracklang@languages\undefined
\else
  \@tracklang@restore@at
  \expandafter\endinput
\fi
```

Version info.

```
\expandafter\def\csname ver@tracklang.tex\endcsname{2017/03/25 v1.3.4
(NLCT) Track Languages Generic Code}
```

Define a long command for determining the existence of a control sequence by its name. (\relax is considered undefined.)

```
\@tracklang@ifundef
\long\def\@tracklang@ifundef#1#2#3{%
  \ifcsname#1\endcsname
    \expandafter\ifx\csname #1\endcsname\relax
      #2%
    \else
      #3%
```

```

    \fi
  \else
    \expandafter\ifx\csname #1\endcsname\relax
      #2%
    \else
      #3%
    \fi
  \fi
}

```

`\ifcsname` is an e $\TeX$  primitive. Need to check if it's defined.

```
\ifx\ifcsname\undefined
```

Not using e $\TeX$ .

```

\long\def\@tracklang@ifundef#1#2#3{%
  \expandafter\ifx\csname #1\endcsname\relax
    #2%
  \else
    #3%
  \fi
}

```

Can't have an else part here as  $\TeX$  won't recognise `\ifcsname` and we'll have an unmatched end brace.

```
\fi
```

The shell escape stuff needs the Plain  $\TeX$  version of `\input`. This is `\@@input` if we're using  $\LaTeX$ .

```
\@tracklang@input
```

```

\ifx\@@input\undefined
  \let\@tracklang@input\input
\else
  \let\@tracklang@input\@@input
\fi

```

Provide some commands in case the  $\LaTeX$  kernel hasn't been loaded.

```
\@tracklang@nnil
```

```

\ifx\@nnil\undefined
  \def\@tracklang@nnil{\@nil}
\else
  \let\@tracklang@nnil\@nnil
\fi

```

```
\@tracklang@for
```

```

\ifx\@for\undefined
  \long\def\@tracklang@for#1:=#2\do#3{%
    \expandafter\def\expandafter\@fortmp\expandafter{#2}%
    \ifx\@fortmp\empty
      \else
        \expandafter
          \@tracklang@forloop #2,\@nil,\@nil\@@ #1{#3}%
        \fi
      }
  \long\def\@tracklang@forloop#1,#2,#3\@@ #4#5{%
    \def #4{#1}%
    \ifx#4\@tracklang@nnil

```

```

\else
#5%
\def #4{#2}%
\ifx#4\@tracklang@nnil
\else
#5%
\@tracklang@iforloop #3\@ #4{#5}%
\fi
\fi
}
\long\def\@tracklang@iforloop#1,#2\@ #3#4{%
\def#3{#1}%
\ifx#3\@tracklang@nnil
\expandafter
\@tracklang@fornoop
\else
#4\relax
\expandafter\@tracklang@iforloop
\fi
#2\@ #3{#4}%
}
\long\def\@tracklang@fornoop#1\@ #2#3{}
\else
\let\@tracklang@for\@for
\fi

```

\@tracklang@namedef

```

\ifx\@namedef\undefined
\def\@tracklang@namedef#1{\expandafter\def\csname#1\endcsname}
\else
\let\@tracklang@namedef\@namedef
\fi

```

\@tracklang@enamedef

```

\def\@tracklang@enamedef#1{\expandafter\edef\csname#1\endcsname}

```

\@tracklang@nameuse

```

\def\@tracklang@nameuse#1{%
\@tracklang@ifundef{#1}{\csname#1\endcsname}%
}

```

\@tracklang@sanitize

```

\ifx\@onelevel@sanitize\undefined
\def\@tracklang@sanitize#1{%
\edef#1{\expandafter\@tracklang@strip@prefix\meaning#1}%
}
\def\@tracklang@strip@prefix#1>{}
\else
\let\@tracklang@sanitize\@onelevel@sanitize
\fi

```

\@tracklang@firstoftwo

```

\def\@tracklang@firstoftwo#1#2{#1}

```

\@tracklang@secondoftwo

```

\def\@tracklang@secondoftwo#1#2{#2}

```

```

\@tracklang@err
\ifx\PackageError\undefined
\def\@tracklang@err#1#2{%
\errhelp{#2}%
\errmessage{tracklang: #1}}
\else
\def\@tracklang@err#1#2{\PackageError{tracklang}{#1}{#2}}
\fi

\ifTrackLangShowWarnings Allow user to switch warnings on or off.
\newif\ifTrackLangShowWarnings
\TrackLangShowWarningstrue

\@tracklang@pkgwarn Provided for related packages such as texosquery.
\ifx\PackageWarning\undefined
\def\@tracklang@pkgwarn#1#2{%
\ifTrackLangShowWarnings
{%
\newlinechar='\^^J
\def\MessageBreak{^^J}%
\message{^^J#1 Warning: #2 on line \the\inputlineno.^^J}%
}%
\fi
}
\else
\def\@tracklang@pkgwarn#1#2{%
\ifTrackLangShowWarnings
\PackageWarning{#1}{#2}%
\fi
}
\fi

\@tracklang@warn
\def\@tracklang@warn#1{\@tracklang@pkgwarn{tracklang}{#1}}%

\ifTrackLangShowInfo Allow user to switch information messages on or off.
\newif\ifTrackLangShowInfo
\TrackLangShowInfotrue

\@tracklang@info
\ifx\PackageInfo\undefined
\def\@tracklang@info#1{%
\ifTrackLangShowInfo
{%
\newlinechar='\^^J
\def\MessageBreak{^^J}%
\message{^^Jtracklang Info: #1 on line \the\inputlineno.^^J}%
}%
\fi
}%
\else
\def\@tracklang@info#1{%
\ifTrackLangShowInfo
\PackageInfo{tracklang}{#1}%
\fi
}%
\fi

```

`\@tracklang@ifFileExists`

```
\ifx\IfFileExists\undefined
\long\def\@tracklang@ifFileExists#1#2#3{%
\openin0=#1 %
\ifeof0\relax
\def\@tracklang@tmp{#3}%
\else
\closein0\relax
\edef\@filef@und{#1 }%
\def\@tracklang@tmp{#2}%
\fi
\@tracklang@tmp
}

\else
\let\@tracklang@ifFileExists\IfFileExists
\fi
```

Provide a way to query the environment variables `LC_ALL` or `LANG` to determine the region and language. The result is stored in `\TrackLangEnv` if it can be obtained. If it can't be obtained, `\TrackLangEnv` is set to empty. Also define `\TrackLangQueryOtherEnv{<name>}` to query `LC_ALL`, `<name>`, `LANG`. For example

```
\TrackLangQueryOtherEnv{LC\_MONETARY}
```

Note that there's not much that can be done from within `TEX` for the C or POSIX locale or a locale starting with a slash, so provide a check for them.

`\@tracklang@checklocale`

```
\def\@tracklang@checklocale{%
\ifx\TrackLangEnv\empty
\else
\ifx\TrackLangEnv\@tracklang@locale@posix
\def\TrackLangEnv{}%
\else
\ifx\TrackLangEnv\@tracklang@locale@c
\def\TrackLangEnv{}%
\else
\expandafter\@tracklang@checklocale
\TrackLangEnv\empty\relax
\fi
\fi
\fi
}
```

`\@@tracklang@checklocale` Check for leading slash.

```
\def\@@tracklang@checklocale#1#2\relax{%
\ifx#1/\relax
\def\TrackLangEnv{}%
\fi
}
```

`\@tracklang@locale@posix`

```
\def\@tracklang@locale@posix{POSIX}
```

`\@tracklang@locale@c`

```
\def\@tracklang@locale@c{C}
```

```
\ifx\directlua\undefined
```

We can't use Lua, so we'll have to use the shell escape if it's enabled. First determine if the shell escape is available.

```
\@tracklang@tryshellescape No shell escape.
```

```
\def\@tracklang@tryshellescape#1{%
\def\TrackLangQueryEnv{%
\@tracklang@warn{\string\TrackLangQueryEnv\space
non-operational as shell escape has been disabled}%
\def\TrackLangEnv{}}%
}%
\def\TrackLangQueryOtherEnv##1{%
\@tracklang@warn{\string\TrackLangQueryOtherEnv{##1}\space
non-operational as shell escape has been disabled}%
\def\TrackLangEnv{}}%
}%
}%

\ifx\pdfshellescape\undefined
\ifx\shellescape\undefined
```

Can't determine if the shell escape has been enabled.

```
\def\@tracklang@tryshellescape#1{%
\def\TrackLangQueryEnv{%
\@tracklang@warn{\string\TrackLangQueryEnv\space
non-operational as can't determine if the
shell escape has been enabled. (Consider using
eTeX or pdfTeX.)}%
\def\TrackLangEnv{}}%
}%
\def\TrackLangQueryOtherEnv##1{%
\@tracklang@warn{\string\TrackLangQueryOtherEnv{##1}\space
non-operational as can't determine if the
shell escape has been enabled. (Consider using
eTeX or pdfTeX.)}%
\def\TrackLangEnv{}}%
}%
}%
\else
```

\shellescape is defined. Check no one's been messing around with it and set it to \relax.

```
\ifx\shellescape\relax
\else
\ifnum\shellescape=0\relax
\else
\def\@tracklang@tryshellescape#1{#1}%
\fi
\fi
\fi
\else
```

\pdfshellescape is defined. Check no one's been messing around with it and set it to \relax. (Default no-op already set.)

```
\ifx\pdfshellescape\relax
```

\pdfshellescape has been set to \relax. Is it possible that \shellescape is available?

```
\ifx\shellescape\undefined
\else
\ifx\shellescape\relax
\else
```

`\shellescape` is available.

```
\ifnum\shellescape=0\relax
\else
\def\@tracklang@tryshellescape#1{#1}%
\fi
\fi
\fi
\else
\ifnum\pdfshellescape=0\relax
\else
\def\@tracklang@tryshellescape#1{#1}%
\fi
\fi
\fi
```

Try the shell escape:

```
\@tracklang@tryshellescape
{%
```

`\TrackLangQueryEnv`

```
\def\TrackLangQueryEnv{%
\begingroup\endlinechar=-1\relax
\everyeof{\noexpand}%
\edef\x{\endgroup\def\noexpand\TrackLangEnv{%
\@tracklang@input|"kpsewhich --var-value LC_ALL" }}\x
\@tracklang@checklocale
\ifx\TrackLangEnv\empty
\begingroup\endlinechar=-1\relax
\everyeof{\noexpand}%
\edef\x{\endgroup\def\noexpand\TrackLangEnv{%
\@tracklang@input|"kpsewhich --var-value LANG" }}\x
```

Not sure if a path is likely to occur with `kpsewhich` but check for it just in case.

```
\@tracklang@checklocale
\ifx\TrackLangEnv\empty
```

Try `texosquery` if available.

```
\ifx\TeXOSQueryLocale\undefined
\@tracklang@warn{Locale environment variables
unavailable (tried LC\string_ALL and LANG)}%
\else
\@tracklang@info{Using texosquery to find locale}%
\TeXOSQueryLocale\TrackLangEnv
\ifx\TrackLangEnv\empty
\@tracklang@warn{Locale can't be found
(tried querying LC\string_ALL and LANG variables and
tried using texosquery)}%
\fi
\fi
\fi
\fi
}%
```

`\TrackLangQueryOtherEnv`

```
\def\TrackLangQueryOtherEnv#1{%
\begingroup\endlinechar=-1\relax
\everyeof{\noexpand}%
\edef\x{\endgroup\def\noexpand\TrackLangEnv{%
\@tracklang@input|"kpsewhich --var-value LC_ALL" }}\x
```



```

\@tracklang@checklocale
\ifx\TrackLangEnv\empty
\begingroup\endlinechar=-1\relax
\everyeof{\noexpand}%
\edef\x{\endgroup\def\noexpand\TrackLangEnv{%
\@tracklang@input|"kpsewhich --var-value #1" }}\x
\@tracklang@checklocale
\ifx\TrackLangEnv\empty
\begingroup\endlinechar=-1\relax
\everyeof{\noexpand}%
\edef\x{\endgroup\def\noexpand\TrackLangEnv{%
\@tracklang@input|"kpsewhich --var-value LANG"}}\x
\@tracklang@checklocale
\ifx\TrackLangEnv\empty

```

Try texosquery if available.

```

\ifx\TeXOSQueryLocale\undefined
\@tracklang@warn{Locale environment variables unavailable
(tried LC\string_ALL, #1 and LANG)}%
\else
\@tracklang@info{Using texosquery to find locale}%
\TeXOSQueryLocale\TrackLangEnv
\ifx\TrackLangEnv\empty
\@tracklang@warn{Locale can't be found
(tried querying LC\string_ALL, #1 and LANG variables and
tried using texosquery)}%
\fi
\fi
\fi
\fi
\fi
}%
\else

```

\directlua is defined, so we can query it through Lua:

\TrackLangQueryEnv

```

\def\TrackLangQueryEnv{%
\edef\TrackLangEnv{\directlua{
l = os.getenv("LC_ALL")
if l == nil or l == "" or l == "C" or l == "POSIX"
or string.find(l, "~/") then
l = os.getenv("LANG")
if l == nil or l == "" or l == "C" or l == "POSIX"
or string.find(l, "~/") then
l=os.setlocale(nil)
if l == nil or l == "C" or l == "POSIX"
or string.find(l, "~/") then
l = ""
end
end
end
tex.print(l)}}%
\ifx\TrackLangEnv\empty

```

Try texosquery if available.

```

\ifx\TeXOSQueryLocale\undefined
\@tracklang@warn{Locale can't be found through Lua
(tried querying LC\string_ALL and LANG variables and

```

```

        os.setlocale(nil))}%
    \else
    \TeXOSQueryLocale\TrackLangEnv
    \ifx\TrackLangEnv\empty
    \@tracklang@warn{Locale can't be found through Lua
    (tried querying LC\string_ALL and LANG variables and
    os.setlocale(nil) and tried using texosquery)}%
    \fi
    \fi
}

```

\TrackLangQueryOtherEnv

```

\def\TrackLangQueryOtherEnv#1{%
\edef\TrackLangEnv{\directlua{
l = os.getenv("LC_ALL")
if l == nil or l == "" or l == "C" or l == "POSIX"
or string.find(l, "~/") then
l = os.getenv("#1")
if l == nil or l == "" or l == "C" or l == "POSIX"
or string.find(l, "~/") then
l = os.getenv("LANG")
if l == nil or l == "" or l == "C" or l == "POSIX"
or string.find(l, "~/") then
l=os.setlocale(nil)
if l == nil or l == "C" or l == "POSIX"
or string.find(l, "~/") then
l = ""
end
end
end
end
end
tex.print(l)}}%
\ifx\TrackLangEnv\empty

```

Try texosquery if available.

```

\ifx\TeXOSQueryLocale\undefined
\@tracklang@warn{Locale can't be found through Lua
(tried querying LC\string_ALL, #1 and LANG variables and
os.setlocale(nil))}%
\else
\TeXOSQueryLocale\TrackLangEnv
\ifx\TrackLangEnv\empty
\@tracklang@warn{Locale can't be found through Lua
(tried querying LC\string_ALL, #1 and LANG variables and
os.setlocale(nil) and tried using texosquery)}%
\fi
\fi
}
\fi

```

Allowed formats for the localisation environment variables are

`<iso-lang>[_<iso-territory>][.<encoding>][@<modifier>]`

(where the square brackets above indicate an optional component not that there are literal square brackets.) This is a bit fiddly, so it needs to be broken up into manageable chunks.

`\TrackLangParseFromEnv` Parse `\TrackLangEnv`, if it has been set, and set `\TrackLangEnvLang`, `\TrackLangEnvTerritory` and `\TrackLangEnvCodeSet`. If the information is unavailable, the relevant commands will be set to empty. Use `\TrackLangFromEnv` to query, parse and set.

```

\def\TrackLangParseFromEnv{%
  \ifx\TrackLangEnv\undefined
    \@tracklang@warn{\string\TrackLangParseFromEnv\space
non-operational as \string\TrackLangEnv\space hasn't been
defined}%
    \def\TrackLangEnvLang{}%
    \def\TrackLangEnvTerritory{}%
    \def\TrackLangEnvCodeSet{}%
    \def\TrackLangEnvModifier{}%
  \else
    \ifx\TrackLangEnv\empty
      \@tracklang@warn{\string\TrackLangParseFromEnv\space
non-operational as \string\TrackLangEnv\space is empty}%
      \def\TrackLangEnvLang{}%
      \def\TrackLangEnvTerritory{}%
      \def\TrackLangEnvCodeSet{}%
      \def\TrackLangEnvModifier{}%
    \else
      \@tracklang@parse@locale{\TrackLangEnv}%
      \let\TrackLangEnvLang\@TrackLangEnvLang
      \let\TrackLangEnvTerritory\@TrackLangEnvTerritory
      \let\TrackLangEnvCodeSet\@TrackLangEnvCodeSet
      \let\TrackLangEnvModifier\@TrackLangEnvModifier
    \fi
  \fi
}

```

`\@tracklang@parse@locale` Parse localisation format.

```

\def\@tracklang@parse@locale#1{%
  Initialise.
  \def\@TrackLangEnvLang{}%
  \def\@TrackLangEnvSubLang{}%
  \def\@TrackLangEnvFirstSubLang{}%
  \def\@TrackLangEnvTerritory{}%
  \def\@TrackLangEnvCodeSet{}%
  \def\@TrackLangEnvVariant{}%
  \def\@TrackLangEnvModifier{}%
  \def\@TrackLangEnvScript{}%
  \def\@TrackLangEnvAdditional{}%

```

Just in case argument is empty or `\relax`.

```

\expandafter\ifx\expandafter\relax#1\relax
\else

```

Parse codeset and modifier first.

```

\expandafter\@tracklang@parseenv
#1..\relax\@tracklang@end@parseenv\@tracklang@result

```

Parse language and territory.

```

\ifx\@tracklang@result\empty
\else
  \expandafter\@tracklang@split@underscoreorhyp\expandafter
  {\@tracklang@result}%
  \let\@TrackLangEnvLang\@tracklang@split@pre
  \let\@TrackLangEnvTerritory\@tracklang@split@post
\fi

```

```

    \fi
  }

\@tracklang@split@underscoreorhyp Split on either an underscore or a hyphen and store the results in \@tracklang@split@pre
and \@tracklang@split@post
  \def\@tracklang@split@underscoreorhyp#1{%
First try to split on an underscore.
  \@tracklang@split@underscore{#1}%
If the post part was empty, try to split on hyphen instead.
  \ifx\@tracklang@split@post\empty
    \@tracklang@split@hyphen{#1}%
If the post part was empty, maybe the underscore has had its category code changed to 12.
  \ifx\@tracklang@split@post\empty
    \@tracklang@split@otherunderscore{#1}%
  \fi
  \fi
}

\@tracklang@split@underscore Split on an underscore and store the results in \@tracklang@split@pre and \@tracklang@split@post
First make sure that the underscore has its normal subscript category code.
{
  \catcode'\_8\relax
  \gdef\@tracklang@split@underscore#1{%
    \@tracklang@split@underscore#1__\relax\@tracklang@end@split@underscore
  }
  \gdef\@tracklang@split@underscore#1_#2_#3\@tracklang@end@split@underscore{%
    \def\@tracklang@split@pre{#1}%
    \ifx\relax#3\relax
      \def\@tracklang@split@post{#2}%
    \else
      \@tracklang@split@underscore@remainder#2_#3%
    \fi
  }
  \gdef\@tracklang@split@underscore@remainder#1__\relax{%
    \def\@tracklang@split@post{#1}%
  }
}

\@tracklang@split@otherunderscore As above but where underscore has catcode 12.
{
  \catcode'\_12\relax
  \gdef\@tracklang@split@otherunderscore#1{%
    \@tracklang@split@otherunderscore#1__\relax\@tracklang@end@split@underscore
  }
  \gdef\@tracklang@split@otherunderscore#1_#2_#3\@tracklang@end@split@underscore{%
    \def\@tracklang@split@pre{#1}%
    \ifx\relax#3\relax
      \def\@tracklang@split@post{#2}%
    \else
      \@tracklang@split@otherunderscore@remainder#2_#3%
    \fi
  }
  \gdef\@tracklang@split@otherunderscore@remainder#1__\relax{%
    \def\@tracklang@split@post{#1}%
  }
}

```

`\@tracklang@split@hyphen` Split on a hyphen and store the results in `\@tracklang@split@pre` and `\@tracklang@split@post`

```

{
  \catcode'\-12\relax
  \gdef\@tracklang@split@hyphen#1{%
    \@tracklang@split@hyphen#1--\relax\@tracklang@end@split@hyphen
  }
  \gdef\@tracklang@split@hyphen#1-#2-#3\@tracklang@end@split@hyphen{%
    \def\@tracklang@split@pre{#1}%
    \ifx\relax#3\relax
      \def\@tracklang@split@post{#2}%
    \else
      \@tracklang@split@hyphen@remainder#2-#3%
    \fi
  }
  \gdef\@tracklang@split@hyphen@remainder#1--\relax{%
    \def\@tracklang@split@post{#1}%
  }
}

```

`\@tracklang@parseenv` Parse for the codeset. The first argument will be the language and (optionally) the territory. So the final argument is the control sequence to use to store the first argument, which can then be split.

```

\gdef\@tracklang@parseenv#1.#2.#3\@tracklang@end@parseenv#4{%
  \def\@TrackLangEnvCodeSet{#2}%
  \def#4{#1}%
  \ifx\@TrackLangEnvCodeSet\empty
    \tracklangparsemod#4%
  \else
    \tracklangparsemod\@TrackLangEnvCodeSet
  \fi
}

```

`\tracklangparsemod` Extract the modifier from the code set. The @ is rather awkward as we need to change its category code as it's likely to be set to 12 within `\TrackLangEnv`. So change the category code of @ to 12, but this means we can't use it in the command name, so although these are private internal commands they don't look like internal commands.)

```

{\catcode'\@=12\relax
  \gdef\tracklangparsemod#1{
    \expandafter\tracklangparseenvatmod#1@\relax\tracklangendparseenvatmod
    \let#1\tracklangtmp
  }%
  \gdef\tracklangparseenvatmod#1@#2@#3\tracklangendparseenvatmod{%
    \def\tracklangtmp{#1}%

```

Need to use `\csname` here as can't use internal commands.

```

\expandafter\def\csname @TrackLangEnvModifier\endcsname{#2}%

```

Sanitize in case it contains any special characters.

```

\csname @tracklang@sanitize\expandafter\endcsname
  \csname @TrackLangEnvModifier\endcsname
}
}

```

## 6.2.1 Internal Lists

`\@tracklang@languages` Provide a list to keep track of all the languages.

```

\def\@tracklang@languages{}

```

`\@tracklang@dialects` Provide a list to keep track of all the dialects. Here the “dialect” isn’t necessarily an actual dialect but may be a root language or a synonym. It will usually correspond to the language name as specified by the user in the package option.

```
\def\@tracklang@dialects{}
```

`\@tracklang@ifinlist` `\@tracklang@ifinlist{<item>}{<list>}{<true part>}{<false part>}`

Checks if *<item>* is in *<list>*. (Performs a one-level expansion on *<list>* but no expansion on *<item>*.)

```
\def\@tracklang@ifinlist#1#2#3#4{%
  \def\@tracklang@doifinlist##1,#1,##2\end@tracklang@doifinlist{%
    \def\@before{##1}%
    \def\@after{##2}%
  }%
  \expandafter\@tracklang@doifinlist\expandafter,#2,#1,\@nil
  \end@tracklang@doifinlist
  \ifx\@after\@tracklang@nnil
```

not found

```
#4%
\else
```

found

```
#3%
\fi
}
```

`\@tracklang@add` `\@tracklang@add{<item>}{<list cs>}`

Adds an item to the list given by *<list cs>*. Does nothing if *<item>* is empty or is already in the list. The *<item>* is fully expanded before being added.

```
\def\@tracklang@add#1#2{%
```

First find out if the item is empty.

```
\edef\@tracklang@element{#1}%
\ifx\@tracklang@element\empty
```

Item is empty, so do nothing.

```
\else
  \expandafter\@tracklang@ifinlist\expandafter{\@tracklang@element}#2%
  {%
```

Already in list, so do nothing.

```
}%
{%
```

Not in list, so add.

```
\ifx\empty#2\relax
  \let#2\@tracklang@element
\else
  \edef#2{#2,\@tracklang@element}%
\fi
}%
\fi
}
```

`\AddTrackedDialect` `\AddTrackedDialect{<dialect name>}{<language name>}`

Add a dialect. (v1.3 switched from unexpanded to expanded def. All labels should be expandable.)

```
\def\AddTrackedDialect#1#2{%
  \@tracklang@add{#1}{\@tracklang@dialects}%
  \@tracklang@add{#2}{\@tracklang@languages}%
  \@tracklang@namedef{@tracklang@fromdialect@#1}{#2}%
  \@tracklang@ifundef{@tracklang@todialect@#2}%
  {\@tracklang@namedef{@tracklang@todialect@#2}{#1}}%
  {%
    \def\@tracklang@lang{#1}%
    \expandafter\@tracklang@add\expandafter\@tracklang@lang
      \csname @tracklang@todialect@#2\endcsname
  }%
}
```

Provide a convenient way of referencing the last dialect to be tracked.

```
\edef\TrackLangLastTrackedDialect{#1}%
}
```

`\AddTrackedLanguage` `\AddTrackedLanguage{<language name>}`

Add a dialect.

```
\def\AddTrackedLanguage#1{%
  \AddTrackedDialect{#1}{#1}%
}
```

## 6.2.2 Known Languages

`\@tracklang@known@langs` List of known (root) languages (that may or may not be tracked).

```
\def\@tracklang@known@langs{}
```

`\TrackLangNewLanguage` `\TrackLangNewLanguage{<language name>}{<639-1 code>}{<639-2 (T)>}{<639-2 (B)>}{<639-3>}{<3166-1>}{<default script>}`

Identifies a new language that may be tracked. The code arguments may be empty if not available. (v1.3 switched from unexpanded to expanded def. All labels should be expandable.) Most root languages don't have an associated country code as they're spoken in multiple regions. The *<default script>* is the default script identified with the ISO 15924 alpha script code. To reduce overheads, only define 639-3 if there's no 639-1 or 639-2 code.

```
\def\TrackLangNewLanguage#1#2#3#4#5#6#7{%
  \@tracklang@add{#1}{\@tracklang@known@langs}%
  \edef\@tracklang@tmp{#2}%
  \ifx\@tracklang@tmp\empty
  \else
    \@tracklang@namedef{@tracklang@knownisolang@#2}{#1}%
    \@tracklang@namedef{@tracklang@knowniso@639@1@#1}{#2}%
  \fi
  \edef\@tracklang@tmp{#3}%
  \ifx\@tracklang@tmp\empty
```

```

\else
  \@tracklang@enamedef{@tracklang@knownisolang@#3}{#1}%
  \@tracklang@enamedef{@tracklang@knowniso@639@2@#1}{#3}%
\fi
\edef\@tracklang@tmp{#4}%
\ifx\@tracklang@tmp\empty
\else
  \@tracklang@enamedef{@tracklang@knowniso@639@2B@#1}{#4}%
\fi
\edef\@tracklang@tmp{#5}%
\ifx\@tracklang@tmp\empty
\else
  \@tracklang@enamedef{@tracklang@knownisolang@#5}{#1}%
  \@tracklang@enamedef{@tracklang@knowniso@639@3@#1}{#5}%
\fi
\edef\@tracklang@tmp{#6}%
\ifx\@tracklang@tmp\empty
\else
  \@tracklang@enamedef{@tracklang@knowniso@3166@#1}{#6}%
\fi
\edef\@tracklang@tmp{#7}%
\ifx\@tracklang@tmp\empty
\else
  \@tracklang@enamedef{@tracklang@knowniso@script@#1}{#7}%
\fi
}

```

\TrackLangIfKnownLang

```
\TrackLangIfKnownLang{<language>}{<true>}{<false>}
```

Tests if *<language>* is known (but not necessarily tracked).

```

\def\TrackLangIfKnownLang#1#2#3{%
  \expandafter\@tracklang@ifinlist\expandafter{#1}{\@tracklang@known@langs}%
  {#2}%
  {#3}%
}

```

\TrackLangIfKnownIsoTwoLetterLang

```
\TrackLangIfKnownIsoTwoLetterLang{<language>}{<true>}{<false>}
```

Checks if the given language has an ISO 639-1 language code (but is not necessarily tracked).

```

\def\TrackLangIfKnownIsoTwoLetterLang#1#2#3{%
  \@tracklang@ifundef{@tracklang@knowniso@639@1@#1}%
  {#3}%
  {#2}%
}

```

\TrackLangGetKnownIsoTwoLetterLang

```
\TrackLangGetKnownIsoTwoLetterLang{<language>}
```

Gets the ISO 639-1 language code for the given language.

```

\def\TrackLangGetKnownIsoTwoLetterLang#1{%
  \@tracklang@nameuse{@tracklang@knowniso@639@1@#1}%
}

```



ackLangIfKnownIsoThreeLetterLang

`\TrackLangIfKnownIsoThreeLetterLang{<language>}{<true>}{<false>}`

Checks if the given language has an ISO 639-2 language code (but is not necessarily tracked).

```
\def\TrackLangIfKnownIsoThreeLetterLang#1#2#3{%
  \@tracklang@ifundef{@tracklang@knowniso@639@2@#1}%
  {#3}%
  {#2}%
}
```

ackLangGetKnownIsoThreeLetterLang

`\TrackLangGetKnownIsoThreeLetterLang{<language>}`

Gets the ISO 639-2 language code.

```
\def\TrackLangGetKnownIsoThreeLetterLang#1{%
  \@tracklang@nameuse{@tracklang@knowniso@639@2@#1}%
}
```

ackLangIfKnownIsoThreeLetterLangB

`\TrackLangIfKnownIsoThreeLetterLangB{<language>}{<true>}{<false>}`

Checks if the given language has an ISO 639-2 (B) language code (but is not necessarily tracked).

```
\def\TrackLangIfKnownIsoThreeLetterLangB#1#2#3{%
  \@tracklang@ifundef{@tracklang@knowniso@639@2B@#1}%
  {#3}%
  {#2}%
}
```

ackLangGetKnownIsoThreeLetterLangB

`\TrackLangGetKnownIsoThreeLetterLangB{<language>}`

Gets the ISO 639-2 (B) language code.

```
\def\TrackLangGetKnownIsoThreeLetterLangB#1{%
  \@tracklang@nameuse{@tracklang@knowniso@639@2B@#1}%
}
```

\TrackLangIfKnownLangFromIso

`\TrackLangIfKnownLangFromIso{<ISO code>}{<true>}{<false>}`

Checks if the given ISO language code (639-1 or 639-2 or 639-3) is recognised (but not necessarily tracked).

```
\def\TrackLangIfKnownLangFromIso#1#2#3{%
  \@tracklang@ifundef{@tracklang@knownisolang@#1}%
  {#3}%
  {#2}%
}
```

\TrackLangGetKnownLangFromIso

`\TrackLangGetKnownLangFromIso{<ISO code>}`

Gets the root language label from the given ISO code (639-1 or 639-2).

```
\def\TrackLangGetKnownLangFromIso#1{%
  \@tracklang@nameuse{@tracklang@knownisolang@#1}%
}
```

\TrackLangIfHasKnownCountry

```
\TrackLangIfHasKnownCountry{<language>}{<true>}{<false>}
```

Checks if the given language has an ISO 3166-1 country code (but is not necessarily tracked).

```
\def\TrackLangIfHasKnownCountry#1#2#3{%
  \@tracklang@ifundef{@tracklang@knowniso@3166@#1}%
  {#3}%
  {#2}%
}
```

\TrackLangGetKnownCountry

```
\TrackLangGetKnownCountry{<language>}
```

Fetches the ISO 3166-1 country code for the given language.

```
\def\TrackLangGetKnownCountry#1{%
  \@tracklang@nameuse{@tracklang@knowniso@3166@#1}%
}
```

\TrackLangGetDefaultScript

```
\TrackLangGetDefaultScript{<language>}
```

Gets the default script for the given root language label.

```
\def\TrackLangGetDefaultScript#1{%
  \@tracklang@nameuse{@tracklang@knowniso@script@#1}%
}
```

\TrackLangIfHasDefaultScript

```
\TrackLangIfHasDefaultScript{<language>}{<true>}{<false>}
```

If there's a default script for *<language>*, do *<true>* otherwise do *<false>*.

```
\def\TrackLangIfHasDefaultScript#1#2#3{%
  \@tracklang@ifundef{@tracklang@knowniso@script@#1}{#3}{#2}%
}
```

### 6.2.3 Mappings

\AddTrackedIsoLanguage

```
\AddTrackedIsoLanguage{<code type>}{<code>}{<language>}
```

Adds a mapping between the given ISO code and language name. There may be multiple mappings from an ISO code to a language name, but only one mapping from a language name to an ISO code. (v1.3 switched from unexpanded to expanded def. All labels should be expandable.)

```
\def\AddTrackedIsoLanguage#1#2#3{%
```

```

\@tracklang@enamedef{@tracklang@#1@isofromlang@#3}{#2}%
\@tracklang@ifundef{@tracklang@#1@isotolang@#2}%
{\@tracklang@enamedef{@tracklang@#1@isotolang@#2}{#3}}%
{%
\def\@tracklang@lang{#3}%
\expandafter\@tracklang@add\expandafter\@tracklang@lang
\csname @tracklang@#1@isotolang@#2\endcsname
}%
}

```

\TrackedLanguageFromIsoCode

\TrackedLanguageFromIsoCode{<code type>}{<code>}

Fetches the language label (or labels) associated with the given code.

```

\def\TrackedLanguageFromIsoCode#1#2{%
\@tracklang@nameuse{@tracklang@#1@isotolang@#2}%
}

```

\TrackedIsoCodeFromLanguage

\TrackedIsoCodeFromLanguage{<code type>}{<language>}

Fetches the code associated with the given language or dialect.

```

\def\TrackedIsoCodeFromLanguage#1#2{%
\@tracklang@nameuse{@tracklang@#1@isofromlang@#2}%
}

```

\TrackedLanguageFromDialect

\TrackedLanguageFromDialect{<dialect>}

Fetches the language name from the given dialect.

```

\def\TrackedLanguageFromDialect#1{%
\@tracklang@nameuse{@tracklang@fromdialect@#1}%
}

```

\TrackedDialectsFromLanguage

\TrackedDialectsFromLanguage{<root language label>}

Fetches the tracked dialects whose language is given by <root language label>.

```

\def\TrackedDialectsFromLanguage#1{%
\@tracklang@nameuse{@tracklang@todialect@#1}%
}

```

\TwoLetterIsoCountryCode

```

\def\TwoLetterIsoCountryCode{3166-1}

```

\TwoLetterIsoLanguageCode

```

\def\TwoLetterIsoLanguageCode{639-1}

```

\ThreeLetterIsoLanguageCode

```

\def\ThreeLetterIsoLanguageCode{639-2}

```

`\ThreeLetterExtIsoLanguageCode`

```
\def\ThreeLetterExtIsoLanguageCode{639-3}
```

`\SetTrackedDialectModifier` `\SetTrackedDialectModifier{<dialect>}{<value>}`

Set the modifier for *<dialect>*. (For example, old or new.) Arguments are expanded.

```
\def\SetTrackedDialectModifier#1#2{%
  \@tracklang@enamedef{@tracklang@modifier@#1}{#2}%
}
```

`\GetTrackedDialectModifier` `\GetTrackedDialectModifier{<dialect>}`

Get the modifier for *<dialect>*.

```
\def\GetTrackedDialectModifier#1{%
  \@tracklang@nameuse{@tracklang@modifier@#1}%
}
```

`\IfHasTrackedDialectModifier` `\IfHasTrackedDialectModifier{<dialect>}{<true>}{<false>}`

If there's a modifier for *<dialect>*, do *<true>* otherwise do *<false>*.

```
\def\IfHasTrackedDialectModifier#1#2#3{%
  \@tracklang@ifundef{@tracklang@modifier@#1}{#3}{#2}%
}
```

`\SetTrackedDialectScript` `\SetTrackedDialectScript{<dialect>}{<value>}`

Set the script for *<dialect>*. (For example, Latn or Cyr1.) Arguments are expanded.

```
\def\SetTrackedDialectScript#1#2{%
  \@tracklang@enamedef{@tracklang@script@#1}{#2}%
}
```

`\GetTrackedDialectScript` `\GetTrackedDialectScript{<dialect>}`

Get the script for *<dialect>*.

```
\def\GetTrackedDialectScript#1{%
  \@tracklang@nameuse{@tracklang@script@#1}%
}
```

`\IfHasTrackedDialectScript` `\IfHasTrackedDialectScript{<dialect>}{<true>}{<false>}`

If there's a script for *<dialect>*, do *<true>* otherwise do *<false>*.

```
\def\IfHasTrackedDialectScript#1#2#3{%
  \@tracklang@ifundef{@tracklang@script@#1}{#3}{#2}%
}
```

`\IfTrackedDialectIsScriptCs` `\IfTrackedDialectIsScriptCs{<dialect>}{<cs>}{<true>}{<false>}`

If the given tracked dialect has an associated script and that script code matches the replacement text for the control sequence `<cs>` then do `<true>` otherwise to `<false>`. If the tracked dialect doesn't have an associated script then the default script for the root language is tested. The use of a control sequence allows `\ifx` for the test, which means that this command can expand. The supplementary package `tracklang-script` provides control sequences for known ISO 15924 codes.

```
\def\IfTrackedDialectIsScriptCs#1#2#3#4{%
  \IfHasTrackedDialectScript{#1}%
  {%
    \expandafter\ifx\expandafter#2\csname @tracklang@script@#1\endcsname
    #3%
  }%
  \else
  #4%
  \fi
}%
\TrackLangIfHasDefaultScript{\TrackedLanguageFromDialect{#1}}%
\def\IfTrackedDialectIsScriptCs#1#2#3#4{%
  \expandafter\ifx\expandafter
  #2\csname @tracklang@knowniso@script@\TrackedLanguageFromDialect{#1}\endcsname
  #3%
  \else
  #4%
  \fi
}%
{#4}%
}%
}
```

`\SetTrackedDialectVariant` `\SetTrackedDialectVariant{<dialect>}{<value>}`

Set the modifier for `<dialect>`. (For example, old or new.) Arguments are expanded.

```
\def\SetTrackedDialectVariant#1#2{%
  \@tracklang@enamedef{@tracklang@variant@#1}{#2}%
}
```

`\GetTrackedDialectVariant` `\GetTrackedDialectVariant{<dialect>}`

Get the modifier for `<dialect>`.

```
\def\GetTrackedDialectVariant#1{%
  \@tracklang@nameuse{@tracklang@variant@#1}%
}
```

`\IfHasTrackedDialectVariant` `\IfHasTrackedDialectVariant{<dialect>}{<true>}{<false>}`

If there's a modifier for `<dialect>`, do `<true>` otherwise do `<false>`.

```
\def\IfHasTrackedDialectVariant#1#2#3{%
```

```

    \@tracklang@ifundef{@tracklang@variant@#1}{#3}{#2}%
  }

```

`\SetTrackedDialectSubLang` `\SetTrackedDialectSubLang{<dialect>}{<value>}`

Set the sublang for *<dialect>*. Arguments are expanded.

```

\def\SetTrackedDialectSubLang#1#2{%
  \@tracklang@enamedef{@tracklang@sublang@#1}{#2}%
}

```

`\GetTrackedDialectSubLang` `\GetTrackedDialectSubLang{<dialect>}`

Get the sublang for *<dialect>*.

```

\def\GetTrackedDialectSubLang#1{%
  \@tracklang@nameuse{@tracklang@sublang@#1}%
}

```

`\IfHasTrackedDialectSubLang` `\IfHasTrackedDialectSubLang{<dialect>}{<true>}{<false>}`

If there's a sublang for *<dialect>*, do *<true>* otherwise do *<false>*.

```

\def\IfHasTrackedDialectSubLang#1#2#3{%
  \@tracklang@ifundef{@tracklang@sublang@#1}{#3}{#2}%
}

```

`\SetTrackedDialectAdditional` `\SetTrackedDialectAdditional{<dialect>}{<value>}`

Set the extra for *<dialect>*. Arguments are expanded.

```

\def\SetTrackedDialectAdditional#1#2{%
  \@tracklang@enamedef{@tracklang@extra@#1}{#2}%
}

```

`\GetTrackedDialectAdditional` `\GetTrackedDialectAdditional{<dialect>}`

Get the extra for *<dialect>*.

```

\def\GetTrackedDialectAdditional#1{%
  \@tracklang@nameuse{@tracklang@extra@#1}%
}

```

`\IfHasTrackedDialectAdditional` `\IfHasTrackedDialectAdditional{<dialect>}{<true>}{<false>}`

If there's extra info for *<dialect>*, do *<true>* otherwise do *<false>*.

```

\def\IfHasTrackedDialectAdditional#1#2#3{%
  \@tracklang@ifundef{@tracklang@extra@#1}{#3}{#2}%
}

```

`\GetTrackedLanguageTag`

`\GetTrackedLanguageTag{<dialect>}`

Get the language tag for <dialect>.

```
\def\GetTrackedLanguageTag#1{%
  \IfTrackedLanguageHasIsoCode{639-1}{\TrackedLanguageFromDialect{#1}}%
  {\TrackedIsoCodeFromLanguage{639-1}{\TrackedLanguageFromDialect{#1}}}%
  {%
    \IfTrackedLanguageHasIsoCode{639-2}{\TrackedLanguageFromDialect{#1}}%
    {\TrackedIsoCodeFromLanguage{639-2}{\TrackedLanguageFromDialect{#1}}}%
    {%
      \IfTrackedLanguageHasIsoCode{639-3}{\TrackedLanguageFromDialect{#1}}%
      {\TrackedIsoCodeFromLanguage{639-3}{\TrackedLanguageFromDialect{#1}}}%
      {und}% undefined
    }%
  }%
  \@tracklang@ifundef{@tracklang@sublang@#1}%
  {}%
  {-\csname @tracklang@sublang@#1\endcsname}%
  \@tracklang@ifundef{@tracklang@script@#1}%
  {}%
  {-\csname @tracklang@script@#1\endcsname}%
  \IfTrackedLanguageHasIsoCode{3166-1}{#1}%
  {-\TrackedIsoCodeFromLanguage{3166-1}{#1}}%
  {}%
  \@tracklang@ifundef{@tracklang@variant@#1}%
  {}%
  {-\csname @tracklang@variant@#1\endcsname}%
  \@tracklang@ifundef{@tracklang@extra@#1}%
  {}%
  {-\csname @tracklang@extra@#1\endcsname}%
}
```

`\SetCurrentTrackedDialect`

`\SetCurrentTrackedDialect{<dialect>}`

Provided for use by language hooks to establish the current tracked dialect. This command doesn't change `\language` or hyphenation patterns etc. It just provides convenient commands that can be accessed. The argument may be a tracklang dialect label or the language hook label from which a tracklang dialect label can be obtained or the root language label.

```
\def\SetCurrentTrackedDialect#1{%
  \edef\CurrentTrackedDialect{#1}%
  \IfTrackedDialect{\CurrentTrackedDialect}%
  {}%
  {%
```

Has a mapping from this dialect to a tracklang dialect been supplied?

```
\IfHookHasMappingFromTrackedDialect{\CurrentTrackedDialect}%
{%
  \IfTrackedDialect{\GetTrackedDialectFromMapping\CurrentTrackedDialect}%
  {%
    \edef\CurrentTrackedDialect{\GetTrackedDialectFromMapping
      {\CurrentTrackedDialect}}%
  }%
  {}%
}
```

Has the root language name been supplied?

```
\IfTrackedLanguage{#1}%
{%
```

Get the last dialect to be tracked with this language.

```
\edef\@tracklang@dialects{\TrackedDialectsFromLanguage{#1}}%
\@tracklang@for\@tracklang@dialect:=\@tracklang@dialects\do{%
\let\CurrentTrackedDialect\@tracklang@dialect
}%
}%
{}%
}%
}%
{%
```

Has the root language name been supplied?

```
\IfTrackedLanguage{#1}%
{%
```

Get the last dialect to be tracked with this language.

```
\edef\@tracklang@dialects{\TrackedDialectsFromLanguage{#1}}%
\@tracklang@for\@tracklang@dialect:=\@tracklang@dialects\do{%
\let\CurrentTrackedDialect\@tracklang@dialect
}%
}%
{}%
}%
}%
\IfTrackedDialect{\CurrentTrackedDialect}%
{%
```

```
\edef\CurrentTrackedLanguage{%
\TrackedLanguageFromDialect{\CurrentTrackedDialect}}%
\edef\CurrentTrackedDialectModifier{%
\GetTrackedDialectModifier{\CurrentTrackedDialect}}%
\edef\CurrentTrackedDialectVariant{%
\GetTrackedDialectVariant{\CurrentTrackedDialect}}%
```

Get the default script if not set.

```
\IfHasTrackedDialectScript{\CurrentTrackedDialect}%
{%
\edef\CurrentTrackedDialectScript{%
\GetTrackedDialectScript{\CurrentTrackedDialect}}%
}%
{}%
\edef\CurrentTrackedDialectScript{%
\TrackLangGetDefaultScript\CurrentTrackedLanguage}%
}%
\edef\CurrentTrackedDialectSubLang{%
\GetTrackedDialectSubLang{\CurrentTrackedDialect}}%
\edef\CurrentTrackedDialectAdditional{%
\GetTrackedDialectAdditional{\CurrentTrackedDialect}}%
\edef\CurrentTrackedLanguageTag{%
\GetTrackedLanguageTag{\CurrentTrackedDialect}}%
```

Region code.

```
\IfTrackedLanguageHasIsoCode{3166-1}{\CurrentTrackedDialect}%
{%
\edef\CurrentTrackedRegion{%
\TrackedIsoCodeFromLanguage{3166-1}{\CurrentTrackedDialect}}%
}%
{\def\CurrentTrackedRegion{}}%
```



Language code.

```

\IfTrackedLanguageHasIsoCode{639-1}{\CurrentTrackedLanguage}%
{%
  \edef\CurrentTrackedIsoCode{%
    \TrackedIsoCodeFromLanguage{639-1}{\CurrentTrackedLanguage}}%
}%
{%
  \IfTrackedLanguageHasIsoCode{639-2}{\CurrentTrackedLanguage}%
  {%
    \edef\CurrentTrackedIsoCode{%
      \TrackedIsoCodeFromLanguage{639-2}{\CurrentTrackedLanguage}}%
  }%
  {%
    \IfTrackedLanguageHasIsoCode{639-3}{\CurrentTrackedLanguage}%
    {%
      \edef\CurrentTrackedIsoCode{%
        \TrackedIsoCodeFromLanguage{639-3}{\CurrentTrackedLanguage}}%
    }%
    {%
      \def\CurrentTrackedIsoCode{}%
    }%
  }%
}%
}%
{%
  \@tracklang@warn{Unknown dialect label ‘#1’ passed to
    \string\SetCurrentTrackedDialect}%
  \edef\CurrentTrackedLanguage{\language}%
  \def\CurrentTrackedDialectModifier{}%
  \def\CurrentTrackedDialectVariant{}%
  \def\CurrentTrackedDialectScript{}%
  \def\CurrentTrackedDialectSubLang{}%
  \def\CurrentTrackedDialectAdditional{}%
  \def\CurrentTrackedIsoCode{}%
  \def\CurrentTrackedRegion{}%
  \def\CurrentTrackedLanguageTag{und}%
}%
}

```

\AddTrackedLanguageIsoCodes

\AddTrackedLanguageIsoCodes{*language*}

Adds the ISO 639-1 and 639-2 ISO codes for the given language, which must have previously been declared using \TrackLangNewLanguage.

```

\def\AddTrackedLanguageIsoCodes#1{%
  \@tracklang@ifundef{@tracklang@knowniso@639@1@#1}%
  {}%
  {%
    \AddTrackedIsoLanguage\TwoLetterIsoLanguageCode
      {\csname @tracklang@knowniso@639@1@#1\endcsname}{#1}%
  }%
  \@tracklang@ifundef{@tracklang@knowniso@639@2@#1}%
  {}%
  {%
    \AddTrackedIsoLanguage\ThreeLetterIsoLanguageCode
      {\csname @tracklang@knowniso@639@2@#1\endcsname}{#1}%
  }%
}

```

Does it have a different 639-2 (B) code?

```

\@tracklang@ifundef{@tracklang@knowniso@639@2B@#1}%

```

```

    {}%
    {%
    \AddTrackedIsoLanguage{\ThreeLetterIsoLanguageCode-T}%
    {\csname @tracklang@knowniso@639@2@#1\endcsname}{#1}%
    \AddTrackedIsoLanguage{\ThreeLetterIsoLanguageCode-B}%
    {\csname @tracklang@knowniso@639@2B@#1\endcsname}{#1}%
    }%
  }%
  \@tracklang@ifundef{@tracklang@knowniso@639@3@#1}%
  {}%
  {%
  \AddTrackedIsoLanguage\ThreeLetterExtIsoLanguageCode
  {\csname @tracklang@knowniso@639@3@#1\endcsname}{#1}%
  }%
}

```

`\AddTrackedCountryIsoCode` As above but adds the 3166-1 country code if provided. Most root languages don't have an associated country code as they're spoken in multiple regions. Some of those that do have an associated region code may also be spoken as a minority language elsewhere, so this is separate from the previous command. If a regionless setting is required, use `\TrackLocale` instead of `\TrackPredefinedDialect`.

```

\def\AddTrackedCountryIsoCode#1{%
  \@tracklang@ifundef{@tracklang@knowniso@3166@#1}%
  {}%
  {%
  \AddTrackedIsoLanguage{3166-1}%
  {\csname @tracklang@knowniso@3166@#1\endcsname}{#1}%
  }%
}

```

## 6.2.4 Tracking Languages and Dialects

The commands here are provided to indicate that a language or dialect is active (tracked) in the document.

`\TrackPredefinedDialect` `\TrackPredefinedDialect{<dialect label>}`

Track a predefined language or dialect.

```

\def\TrackPredefinedDialect#1{%
  \@tracklang@ifundef{@tracklang@add@#1}%
  {%
  \@tracklang@err{Dialect or language ‘#1’ is not predefined}{}%
  }%
  {\@tracklang@nameuse{@tracklang@add@#1}}%
}

```

`\@tracklang@hassecondchar` Check if second argument is present (non-empty and not `\relax`).

```

\def\@tracklang@hassecondchar#1#2\@end@tracklang@hassecondchar#3#4{%
  \ifx\relax#2\relax
  #4%
  \else
  #3%
  \fi
}

```

```

\@tracklang@hasthirdchar Check if third argument is present (non-empty and not \relax).
\def\@tracklang@hasthirdchar#1#2#3\@end@tracklang@hasthirdchar#4#5{%
  \ifx\relax#3\relax
    #5%
  \else
    #4%
  \fi
}

\@tracklang@hasfourthchar Check if fourth argument is present (non-empty and not \relax).
\def\@tracklang@hasfourthchar#1#2#3#4\@end@tracklang@hasfourthchar#5#6{%
  \ifx\relax#4\relax
    #6%
  \else
    #5%
  \fi
}

\@tracklang@hasfifthchar Check if fifth argument is present (non-empty and not \relax).
\def\@tracklang@hasfifthchar#1#2#3#4#5\@end@tracklang@hasfifthchar#6#7{%
  \ifx\relax#5\relax
    #7%
  \else
    #6%
  \fi
}

\@tracklang@hasninthchar Check if ninth argument is present (non-empty and not \relax).
\def\@tracklang@hasninthchar#1#2#3#4#5#6#7#8#9\@end@tracklang@hasninthchar{%
  \ifx\relax#9\relax
    \expandafter\@tracklang@secondoftwo
  \else
    \expandafter\@tracklang@firstoftwo
  \fi
}

\@tracklang@ifalpha Check if argument a, ..., z or A, ..., Z.
\def\@tracklang@ifalpha#1#2#3{%
  \ifx\relax#1\relax

    First argument empty or \relax.

    #3%
  \else
    \ifnum\lccode'#1<'a\relax
      #3%
    \else
      \ifnum\lccode'#1>'z\relax
        #3%
      \else

    Is alpha.

    #2%
    \fi
  \fi
  \fi
}

```

`\@tracklang@ifdigit` Check if argument is digit (0,...,9).

```
\def\@tracklang@ifdigit#1#2#3{%  
  \ifx\relax#1\relax
```

First argument empty or `\relax`.

```
  #3%  
  \else  
  \ifnum'#1<'0\relax  
  #3%  
  \else  
  \ifnum'#1>'9\relax  
  #3%  
  \else
```

Is digit.

```
  #2%  
  \fi  
  \fi  
  \fi  
}
```

`\@tracklang@ifalldigits` Check if the argument only consists of digits (no sign).

```
\def\@tracklang@ifalldigits#1{%  
  \expandafter\ifx\relax#1\relax  
  \expandafter\@tracklang@secondoftwo  
  \else  
  \expandafter\@@tracklang@ifalldigits#1\@tracklang@nnil  
  \fi  
}
```

`\@@tracklang@ifalldigits`

```
\def\@@tracklang@ifalldigits#1{%  
  \ifx#1\@tracklang@nnil  
  \def\@tracklang@next{\expandafter\@tracklang@firstoftwo}%  
  \else  
  \@tracklang@ifdigit{#1}%  
  {%  
    \let\@tracklang@next\@tracklang@ifalldigits  
  }%  
  {%  
    \def\@tracklang@next##1\@tracklang@nnil{%  
      \expandafter\@tracklang@secondoftwo}%  
    }%  
  \fi  
  \@tracklang@next  
}
```

`\@tracklang@ifalphanumeric` Check if argument is an alphanumeric (0,...,9) or (a,...,z) or (A,...,Z).

```
\def\@tracklang@ifalphanumeric#1#2#3{%  
  \@tracklang@ifalpha{#1}%  
  {#2}%  
  {%  
    \@tracklang@ifdigit{#1}{#2}{#3}%  
  }%  
}
```

`\TrackLangIfAlphaNumericChar`

```
\TrackLangIfAlphaNumericChar{<tag>}{<true>}{<false>}
```

Check if the argument is a single alphanumeric character.

```
\def\TrackLangIfAlphaNumericChar#1#2#3{%  
  \expandafter\ifx\expandafter\relax#1\relax
```

Tag empty or \relax.

```
  #3%  
  \else  
    \expandafter\@tracklang@hassecondchar#1\relax\relax  
    \end@tracklang@hassecondchar  
  {#3}%  
  {\expandafter\@tracklang@ifalphanumeric#1{#2}{#3}}%  
  \fi  
}
```

\TrackLangIfLanguageTag

```
\TrackLangIfLanguageTag{<tag>}{<true>}{<false>}
```

Check if the argument is a language tag (two or three letter lower case).

```
\def\TrackLangIfLanguageTag#1#2#3{%  
  \expandafter\@tracklang@hasthirdchar#1\relax\relax\relax  
  \end@tracklang@hasthirdchar  
  {%
```

Has 3 or more characters.

```
  \expandafter\@tracklang@hasfourthchar#1\relax\end@tracklang@hasfourthchar  
  {#3}%  
  {%
```

Has 3 characters. Are they all lower case?

```
  \expandafter\@tracklang@iflanguage@iii@tag#1{#2}{#3}%  
  }%  
  }%  
  {%
```

Has less than 3 characters.

```
  \expandafter\@tracklang@hassecondchar#1\relax\relax  
  \end@tracklang@hassecondchar  
  {%
```

Has two characters. Are they both lower case?

```
  \expandafter\@tracklang@iflanguage@ii@tag#1{#2}{#3}%  
  }%  
  {#3}%  
  }%  
}
```

\@tracklang@iflanguage@ii@tag

```
\def\@tracklang@iflanguage@ii@tag#1#2#3#4{%  
  \ifnum\lccode'#1=#1\relax  
    \ifnum\lccode'#2=#2\relax  
      #3%  
    \else  
      #4%  
  \fi  
  \else  
    #4%  
  \fi  
}
```

`\@tracklang@iflanguage@iii@tag`

```
\def\@tracklang@iflanguage@iii@tag#1#2#3#4#5{%
  \ifnum\lccode'#1=#1\relax
    \ifnum\lccode'#2=#2\relax
      \ifnum\lccode'#3=#3\relax
        #4%
      \else
        #5%
      \fi
    \else
      #5%
    \fi
  \else
    #5%
  \fi
}
```

`\TrackLangIfRegionTag`

```
\TrackLangIfRegionTag{<tag>}{<true>}{<false>}
```

Check if the argument is a region tag (two letter upper case or three digit numeric).

```
\def\TrackLangIfRegionTag#1#2#3{%
  \expandafter\@tracklang@hasthirdchar#1\relax\relax\relax
  \end@tracklang@hasthirdchar
  {%
```

Has 3 or more characters. Is it a three digit numeric code?

```
\expandafter\@tracklang@hasfourthchar#1\relax\end@tracklang@hasfourthchar
  {%
```

Has 4 or more characters.

```
  #3%
  }%
  {%
```

Has 3 characters. Are they all digits?

```
\@tracklang@ifalldigits{#1}{#2}{#3}%
  }%
  }%
  {%
```

Has less than 3 characters.

```
\expandafter\@tracklang@hassecondchar#1\relax\relax
  \end@tracklang@hassecondchar
  {%
```

Has two characters. Are they both upper case?

```
\expandafter\@tracklang@ifregion@ii@tag#1{#2}{#3}%
  }%
  {#3}%
  }%
}
```

`\@tracklang@ifregion@ii@tag`

```
\def\@tracklang@ifregion@ii@tag#1#2#3#4{%
  \ifnum\uccode'#1=#1\relax
    \ifnum\uccode'#2=#2\relax
      #3%
    \fi
  \fi
}
```

```

\else
#4%
\fi
\else
#4%
\fi
}

```

\@tracklang@ifregion@iii@tag

```

\def\@tracklang@ifregion@iii@tag#1#2#3#4#5{%
\ifnum\uccode'#1=#1\relax
\ifnum\uccode'#2=#2\relax
\ifnum\uccode'#3=#3\relax
#4%
\else
#5%
\fi
\else
#5%
\fi
\else
#5%
\fi
}

```

\TrackLangIfScriptTag

```
\TrackLangIfScriptTag{<tag>}{<true>}{<false>}
```

Check if the argument is a script tag (four letter title case).

```

\def\TrackLangIfScriptTag#1#2#3{%
\expandafter\@tracklang@hasfifthchar#1\relax\relax\relax\relax\relax
\@end@tracklang@hasfifthchar
{#3}%
}%

```

Has less than 5 characters.

```

\expandafter\@tracklang@hasfourthchar#1\relax\relax\relax\relax
\@end@tracklang@hasfourthchar
{%

```

Has four characters. Are they title case? (First letter upper case, others lower case.)

```

\expandafter\@tracklang@ifscripttag#1{#2}{#3}%
}%
{#3}%
}%
}

```

\@tracklang@ifscripttag

```

\def\@tracklang@ifscripttag#1#2#3#4#5#6{%
\ifnum\uccode'#1=#1\relax
\ifnum\lccode'#2=#2\relax
\ifnum\lccode'#3=#3\relax
\ifnum\lccode'#4=#4\relax
#5%
\else
#6%
\fi
\else

```

```

        #6%
        \fi
    \else
        #6%
        \fi
    \else
        #6%
        \fi
}

```

`\TrackLangIfVariantTag` `\TrackLangIfVariantTag{<tag>}{<true>}{<false>}`

Check if the argument is a variant tag.

```

\def\TrackLangIfVariantTag#1#2#3{%
\expandafter\@tracklang@hasfifthchar#1\relax\relax\relax\relax\relax
\@end@tracklang@hasfifthchar
{#3}%
}

```

Has at least 5 characters. Does it have a maximum of 8?

```

\expandafter\@tracklang@hasninthchar#1\relax\relax\relax\relax\relax
\relax\relax\relax\relax
\@end@tracklang@hasninthchar
{#3}%
{#2}%
}%
{#2}%
}

```

Less than 5 characters.

```

\expandafter\@tracklang@hasfourthchar#1\relax\relax\relax\relax
\@end@tracklang@hasfourthchar
{#3}%
}

```

Has 4 characters.

```

\expandafter\@tracklang@ifvariant@iv@tag#1{#2}{#3}%
}%
{#3}%
}%
}

```

`\@tracklang@ifvariant@iv@tag` four character variant starting with a digit.

```

\def\@tracklang@ifvariant@iv@tag#1#2#3#4#5#6{%
\@tracklang@ifdigit{#1}%
{#5}
{#6}%
}

```

`\@tracklang@parse@extlang` `\@TrackLangEnvSubLang`, `\@tracklang@split@pre` and `\tracklang@split@post` should be initialised before use. This assumes the tag is well formed.

```

\def\@tracklang@parse@extlang{%
\TrackLangIfLanguageTag{\@tracklang@split@pre}
{%
\ifx\@TrackLangEnvSubLang\empty
\let\@TrackLangEnvSubLang\@tracklang@split@pre
\let\@TrackLangEnvFirstSubLang\@TrackLangEnvSubLang
\else
\edef\@TrackLangEnvSubLang{\@TrackLangEnvSubLang-\@tracklang@split@pre}%
\fi
}

```



Split again if there's more.

```
\ifx\@tracklang@split@post\empty
\else
\expandafter\@tracklang@split@underscoreorhyp\expandafter
{\@tracklang@split@post}%
\ifx\@tracklang@split@pre\empty
\else
\@tracklang@parse@extlang
\fi
\fi
}%
}%
}
```

\@tracklang@parse@variant \@TrackLangEnvVariant, \@tracklang@split@pre and \@tracklang@split@post should be initialised before use.

```
\def\@tracklang@parse@variant{%
\TrackLangIfVariantTag{\@tracklang@split@pre}
{%
\ifx\@TrackLangEnvVariant\empty
\let\@TrackLangEnvVariant\@tracklang@split@pre
\else
\edef\@TrackLangEnvVariant{\@TrackLangEnvVariant
-\@tracklang@split@pre}%
\fi
}
```

Split again if there's more.

```
\ifx\@tracklang@split@post\empty
\else
\expandafter\@tracklang@split@underscoreorhyp\expandafter
{\@tracklang@split@post}%
\ifx\@tracklang@split@pre\empty
\else
\@tracklang@parse@variant
\fi
\fi
}%
}%
}
```

\TrackLanguageTag \TrackLanguageTag{<tag>}

Parse RFC 5646 language tag (assumes regular and well-formed). See also <https://tools.ietf.org/html/rfc5646>. Ensure <tag> is fully-expanded. Warn if argument is empty.

```
\def\TrackLanguageTag#1{%
\edef\@tracklang@tag{#1}%
\ifx\@tracklang@tag\empty
\@tracklang@warn{Empty tag in \string\TrackLanguageTag}%
\else
\expandafter\@TrackLanguageTag\expandafter{\@tracklang@tag}%
\fi
}
```

\@TrackLanguageTag Argument must be expanded.

```
\def\@TrackLanguageTag#1{%
```

First check if it's predefined.

```
\@tracklang@ifundef{@tracklang@add@#1}%  
{%
```

Parse language tag.

```
\@tracklang@parselangtag{#1}%
```

Track this information.

```
\@tracklang@track@locale  
}%  
{%
```

Predefined tag.

```
\@tracklang@nameuse{@tracklang@add@#1}%  
}%  
}
```

```
\@tracklang@parse@langtag
```

```
\def\@tracklang@parselangtag#1{%
```

Initialise.

```
\def\@TrackLangEnvLang{}%  
\def\@TrackLangEnvSubLang{}%  
\def\@TrackLangEnvFirstSubLang{}%  
\def\@TrackLangEnvTerritory{}%  
\def\@TrackLangEnvCodeSet{}%  
\def\@TrackLangEnvVariant{}%  
\def\@TrackLangEnvModifier{}%  
\def\@TrackLangEnvScript{}%  
\def\@TrackLangEnvAdditional{}%
```

First split to determine language code.

```
\@tracklang@split@underscoreorhyp{#1}%
```

Save the result.

```
\let\@TrackLangEnvLang\@tracklang@split@pre
```

Is there anything else?

```
\ifx\@tracklang@split@post\empty
```

That's it.

```
\else
```

Split again.

```
\expandafter\@tracklang@split@underscoreorhyp\expandafter  
{\@tracklang@split@post}%
```

Is this an extension to the language tag?

```
\@tracklang@parse@extlang
```

Does this fit the format for a script?

```
\TrackLangIfScriptTag{\@tracklang@split@pre}%  
{%
```

Found script.

```
\let\@TrackLangEnvScript\@tracklang@split@pre
```

Split again if there's more.

```
\ifx\@tracklang@split@post\empty
\else
\expandafter\@tracklang@split@underscoreorhyp\expandafter
{\@tracklang@split@post}%
\fi
}%
{}%
```

Does this fit the format for a region?

```
\TrackLangIfRegionTag{\@tracklang@split@pre}%
{%
```

Found region. Is it a 2 letter alpha or a 3 digit numeric code?

```
\expandafter\@tracklang@hasthirdchar\@tracklang@split@pre
\relax\relax\relax
\@end@tracklang@hasthirdchar
{%
```

Is three digit numeric code. We need the mappings. Has tracklang-region-codes.tex been loaded?

```
\ifx\TrackLangIfKnownNumericRegion\undefined
\@tracklang@input tracklang-region-codes.tex
\fi
\TrackLangIfKnownNumericRegion{\@tracklang@split@pre}%
{%
\edef\@TrackLangEnvTerritory{%
\TrackLangNumericToAlphaIIRegion{\@tracklang@split@pre}%
}%
}%
{%
\let\@TrackLangEnvTerritory\@tracklang@split@pre
\@tracklang@warn{Unrecognised numeric region code
'\@tracklang@split@pre'}%
}%
}%
{%
```

Is two letter alpha code.

```
\let\@TrackLangEnvTerritory\@tracklang@split@pre
}%
\expandafter\@tracklang@split@underscoreorhyp\expandafter
{\@tracklang@split@post}%
}%
{}%
```

Parse for variant.

```
\@tracklang@parse@variant
```

Anything left can go in additional.

```
\let\@TrackLangEnvAdditional\@tracklang@split@post
\fi
}%
```

\GetTrackedDialectFromLanguageTag

```
\GetTrackedDialectFromLanguageTag{<tag>}{<cs>}
```

Find the tracked dialect that matches the given language tag and stores the dialect label in <cs>. If no match found, <cs> will be empty. Doesn't check the additional information

```

\def\GetTrackedDialectFromLanguageTag#1#2{%
  \def#2{}%
  \@tracklang@parselangtag{#1}%
  \edef\@tracklang@dialect{%
    \@TrackLangEnvLang
    \@TrackLangEnvSubLang
    \@TrackLangEnvScript
    \@TrackLangEnvTerritory
    \@TrackLangEnvModifier
    \@TrackLangEnvVariant}%

```

Has this dialect label been tracked?

```

\IfTrackedDialect{\@tracklang@dialect}%
{

```

Found it. All done.

```

  \let#2\@tracklang@dialect
}
{

```

Get the root language label.

```

  \edef\@tracklang@lang{\TrackLangGetKnownLangFromIso\@TrackLangEnvLang}%

```

Get the default script for this language.

```

  \edef\@tracklang@defscript{\TrackLangGetDefaultScript\@tracklang@lang}%

```

Get the list of tracked dialects for this language.

```

  \edef\@tracklang@dialects{\TrackedDialectsFromLanguage\@tracklang@lang}%

```

For each dialect in this list, check if it matches.

```

\@tracklang@for\@tracklang@dialect:=\@tracklang@dialects\do{%
  \edef\@tracklang@tmp{%
    \TrackedIsoCodeFromLanguage{3166-1}{\@tracklang@dialect}}%
  \ifx\@tracklang@tmp\@TrackLangEnvTerritory

```

Region matches.

```

  \edef\@tracklang@tmp{%
    \GetTrackedDialectSubLang{\@tracklang@dialect}}%
  \ifx\@tracklang@tmp\@TrackLangEnvSubLang

```

Sub-language matches.

```

  \edef\@tracklang@tmp{%
    \GetTrackedDialectVariant{\@tracklang@dialect}}%
  \ifx\@tracklang@tmp\@TrackLangEnvVariant

```

Variant matches.

```

  \edef\@tracklang@tmp{%
    \GetTrackedDialectScript{\@tracklang@dialect}}%
  \ifx\@tracklang@tmp\@TrackLangEnvScript

```

Script matches. Found it.

```

    \let#2\@tracklang@dialect
  \else

```

Script doesn't match. If no script has been provided, does this dialect's script match the default for this language?

```

  \ifx\@TrackLangEnvScript\empty
    \ifx\@tracklang@tmp\@tracklang@defscript

```

Default script matches. Found it.

```
        \let#2@\tracklang@dialect
      \fi
    \fi
  \fi
\fi
\fi
\fi
}
}%
}
```

`\TrackLangFromEnv` This command performs the following steps: query environment variable (if `\TrackLangEnv` not already set), parse `\TrackLangEnv` (if it has been set), and add the dialect (if recognised).

Note that this works slightly differently from just using `\TrackLangQueryEnv` followed by `\TrackLangParseFromEnv` and `\TrackPredefinedDialect`.

```
\def\TrackLangFromEnv{%
```

Initialise.

```
\def\TrackLangEnvLang{}%
\def\TrackLangEnvTerritory{}%
\def\TrackLangEnvCodeSet{}%
\def\TrackLangEnvModifier{}%
```

If `\TrackQueryEnv` is empty, assume `\TrackQueryEnv` has already been attempted but failed, so don't bother retrying.

```
\ifx\TrackLangEnv\undefined
  \TrackLangQueryEnv
\fi
\ifx\TrackLangEnv\empty
  \@tracklang@warn{\string\TrackLangFromEnv\space
    non-operational as \string\TrackLangEnv\space is empty}%
\else
```

At this point `\TrackLangEnv` shouldn't be undefined (if `\TrackLangQueryEnv` fails it should define `\TrackLangEnv` to be empty), but check in case something unexpected has happened.

```
\ifx\TrackLangEnv\undefined
  \@tracklang@warn{\string\TrackLangFromEnv\space
    non-operational as \string\TrackLangEnv\space hasn't been
    defined}%
\else
```

Parse and track.

```
\@tracklang@parse@track@locale{\TrackLangEnv}%
\let\TrackLangEnvLang\@TrackLangEnvLang
\let\TrackLangEnvTerritory\@TrackLangEnvTerritory
\let\TrackLangEnvCodeSet\@TrackLangEnvCodeSet
\let\TrackLangEnvModifier\@TrackLangEnvModifier
\fi
\fi
}
```

`\TrackLocale` `\TrackLocale{<locale>}`

Track the dialect identified by the given locale. The argument may either be a predefined language/dialect or in the same format as `\TrackLangEnv`.

```

\def\TrackLocale#1{%
Is the argument a recognised dialect?
\@tracklang@ifundef{\@tracklang@add@#1}%
{%
\@tracklang@parse@track@locale{#1}%
}%
{%
\@tracklang@nameuse{\@tracklang@add@#1}%
}%
}

```

\@tracklang@parse@track@locale Parse localisation format and track.

```

\def\@tracklang@parse@track@locale#1{%
\@tracklang@parse@locale{#1}%
\@tracklang@track@locale
}

```

\@tracklang@track@locale

```

\def\@tracklang@track@locale{%

```

Is the language code known?

```

\TrackLangIfKnownLangFromIso{\@TrackLangEnvLang}
{%
\edef\@tracklang@lang{\TrackLangGetKnownLangFromIso\@TrackLangEnvLang}%
\let\@tracklang@dialect\@TrackLangEnvLang
\ifx\@TrackLangEnvSubLang\empty
\else
\edef\@tracklang@dialect{\@tracklang@dialect-\@TrackLangEnvSubLang}%
\fi
\ifx\@TrackLangEnvScript\empty
\else
\edef\@tracklang@dialect{\@tracklang@dialect-\@TrackLangEnvScript}%
\fi
\ifx\@TrackLangEnvTerritory\empty
\else
\edef\@tracklang@dialect{\@tracklang@dialect-\@TrackLangEnvTerritory}%
\fi
\ifx\@TrackLangEnvModifier\empty
\else
\edef\@tracklang@dialect{\@tracklang@dialect-\@TrackLangEnvModifier}%
\fi
\ifx\@TrackLangEnvVariant\empty
\else
\edef\@tracklang@dialect{\@tracklang@dialect-\@TrackLangEnvVariant}%
\fi

```

Language code is recognised. Is the dialect label recognised?

```

\@tracklang@ifundef{\@tracklang@add@\@tracklang@dialect}%
{%

```

Not a recognised dialect. Form new dialect name (without hyphen).

```

\edef\@tracklang@dialect{%
\@TrackLangEnvLang
\@TrackLangEnvSubLang
\@TrackLangEnvScript
\@TrackLangEnvTerritory
\@TrackLangEnvModifier
\@TrackLangEnvVariant}%

```

Add this new dialect.

```
\AddTrackedDialect{\@tracklang@dialect}{\@tracklang@lang}%  
\AddTrackedLanguageIsoCodes{\@tracklang@lang}%
```

Is there a sub-language tag?

```
\ifx\@TrackLangEnvFirstSubLang\empty  
\else  
\expandafter\AddTrackedIsoLanguage  
\expandafter\ThreeLetterExtIsoLanguageCode  
\expandafter{\@TrackLangEnvFirstSubLang}%  
\@tracklang@dialect}%  
\fi  
}%  
{%
```

Dialect is recognised.

```
\csname @tracklang@add@\@tracklang@dialect\endcsname  
}%  
}%  
{%
```

Unknown language code.

```
\@tracklang@warn{Unknown language code ‘\@TrackLangEnvLang’}%  
\edef\@tracklang@dialect{%  
\@TrackLangEnvLang  
\@TrackLangEnvSubLang  
\@TrackLangEnvScript  
\@TrackLangEnvTerritory  
\@TrackLangEnvModifier  
\@TrackLangEnvVariant}%  
\AddTrackedDialect{\@tracklang@dialect}{\@TrackLangEnvLang}%
```

Determine if the language code is a two or three letter code.

```
\expandafter\@tracklang@hasthirdchar  
\@TrackLangEnvLang\relax\relax\relax\@end@tracklang@hasthirdchar  
{%
```

639-2 code. Track it.

```
\AddTrackedIsoLanguage{639-2}{\@TrackLangEnvLang}{\@tracklang@lang}%  
}%  
{%
```

639-1 code. Track it.

```
\AddTrackedIsoLanguage{639-1}{\@TrackLangEnvLang}{\@tracklang@lang}%  
}%  
}%
```

Add the territory if provided. (The territory may not have been defined by the dialect option.)

```
\ifx\@TrackLangEnvTerritory\empty  
\else  
\AddTrackedIsoLanguage{3166-1}{\@TrackLangEnvTerritory}%  
\@tracklang@dialect}%  
\fi
```

If a modifier was provided, add that.

```
\ifx\@TrackLangEnvModifier\empty  
\else  
\SetTrackedDialectModifier{\@tracklang@dialect}{\@TrackLangEnvModifier}%  
\fi
```

If a variant was provided, add that.

```
\ifx\@TrackLangEnvVariant\empty
\else
\SetTrackedDialectVariant{\@tracklang@dialect}{\@TrackLangEnvVariant}%
\fi
```

If a script was provided, add that.

```
\ifx\@TrackLangEnvScript\empty
\else
\SetTrackedDialectScript{\@tracklang@dialect}{\@TrackLangEnvScript}%
\fi
```

If a language extension was provided, add that.

```
\ifx\@TrackLangEnvSubLang\empty
\else
\SetTrackedDialectSubLang{\@tracklang@dialect}{\@TrackLangEnvSubLang}%
\fi
```

If additional information was provided, add that.

```
\ifx\@TrackLangEnvAdditional\empty
\else
\SetTrackedDialectAdditional{\@tracklang@dialect}{\@TrackLangEnvAdditional}%
\fi
}
```

## 6.2.5 Predefined Root Languages

The ISO 639-1 and 639-2 codes are used to map the root language name to the ISO language code. The 3166-1 codes are used to map the dialect/variant to the ISO country code. The country code is omitted if ambiguous (for example, the language is spoken in multiple countries). Languages that have a country code may be spoken as a minority language in another region. In this case, `\TrackLocale` should be used instead to set the country code as appropriate. Some “dialects” are just synonyms for a language name, such as “francais” or “frenchb”. These are defined in Section 6.2.6. Some of the languages have two ISO 639-2 codes designated as “B” (bibliographic) or “T” (terminology). In these cases the terminology code is used as the primary 639-2 code. The extra “B” and “T” codes are only provided if they are different.

`\@tracklang@declareoption` Provide a hook to declare a predefined setting as a package option. This is defined by `tracklang.sty` before loading `tracklang.tex` but if this file isn’t loaded through `tracklang.sty` provide a definition that ignores its argument if not already defined.

```
\ifx\@tracklang@declareoption\undefined
\def\@tracklang@declareoption#1{}
\fi
```

`\TrackLangDeclareLanguageOption`

```
\TrackLangDeclareLanguageOption{<language name>}{<639-1 code>}{<639-2
(T)>}{<639-2 (B)>}{<639-3>}{<3166-1>}{<default script>}
```

Define a new root language that’s declared as an option. The language name must be expanded before use. The default script is the ISO 15924 alpha script code. (Some languages may be written in multiple scripts. Leave empty if not obvious default.)



```

\def\TrackLangDeclareLanguageOption#1#2#3#4#5#6#7{%
  \@tracklang@ifundef{@tracklang@add@#1}%
  {%
    \TrackLangNewLanguage{#1}{#2}{#3}{#4}{#5}{#6}{#7}%
    \@tracklang@namedef{@tracklang@add@#1}{%
      \AddTrackedLanguage{#1}%
      \AddTrackedLanguageIsoCodes{#1}%
      \AddTrackedCountryIsoCode{#1}%
    }%
    \@tracklang@declareoption{#1}%
  }%
  {%
    \@tracklang@err{language option ‘#1’ has already been defined}{%}
  }%
}

```

\@tracklang@add@abkhaz

```
\TrackLangDeclareLanguageOption{abkhaz}{ab}{abk}{}{}{Cyr1}
```

\@tracklang@add@afar

```
\TrackLangDeclareLanguageOption{afar}{aa}{aar}{}{}{Latn}
```

\@tracklang@add@afrikaans

```
\TrackLangDeclareLanguageOption{afrikaans}{af}{afr}{}{}{Latn}
```

\@tracklang@add@akan

```
\TrackLangDeclareLanguageOption{akan}{ak}{aka}{}{}{Latn}
```

\@tracklang@add@albanian

```
\TrackLangDeclareLanguageOption{albanian}{sq}{sqi}{alb}{}{}{Latn}
```

\@tracklang@add@amharic

```
\TrackLangDeclareLanguageOption{amharic}{am}{amh}{}{}{ET}{Ethi}
```

\@tracklang@add@anglosaxon

```
\TrackLangDeclareLanguageOption{anglosaxon}{}{ang}{}{}{Runr}
```

\@tracklang@add@apache

```
\TrackLangDeclareLanguageOption{apache}{}{apa}{}{}{Latn}
```

\@tracklang@add@arabic

```
\TrackLangDeclareLanguageOption{arabic}{ar}{ara}{}{}{Arab}
```

\@tracklang@add@aragonese

```
\TrackLangDeclareLanguageOption{aragonese}{an}{arg}{}{}{ES}{Latn}
```

\@tracklang@add@armenian

```
\TrackLangDeclareLanguageOption{armenian}{hy}{hye}{arm}{}{}{Armn}
```

\@tracklang@add@assamese

```
\TrackLangDeclareLanguageOption{assamese}{as}{asm}{}{}{Beng}
```

<code>\@tracklang@add@asturian</code>	<code>\TrackLangDeclareLanguageOption{asturian}{-}{ast}{-}{-}{-}{Latn}</code>
<code>\@tracklang@add@avaric</code>	<code>\TrackLangDeclareLanguageOption{avaric}{av}{ava}{-}{-}{-}{Cyr1}</code>
<code>\@tracklang@add@avestan</code>	<code>\TrackLangDeclareLanguageOption{avestan}{ae}{ave}{-}{-}{-}{Avst}</code>
<code>\@tracklang@add@aymara</code>	<code>\TrackLangDeclareLanguageOption{aymara}{ay}{aym}{-}{-}{-}{Latn}</code>
<code>\@tracklang@add@azerbaijani</code>	The default script is dependent on the region, but this is a regionless definition so using Latin as the default here as Azerbaijani alphabet is a Latin alphabet. Other countries may be using a different script, such as Cyrillic in Russia. <code>\TrackLangDeclareLanguageOption{azerbaijani}{az}{aze}{-}{-}{-}{Latn}</code>
<code>\@tracklang@add@bahasai</code>	<code>\TrackLangDeclareLanguageOption{bahasai}{id}{ind}{-}{-}{IN}{Latn}</code>
<code>\@tracklang@add@bahasam</code>	<code>\TrackLangDeclareLanguageOption{bahasam}{ms}{msa}{may}{-}{MY}{Latn}</code>
<code>\@tracklang@add@bambara</code>	<code>\TrackLangDeclareLanguageOption{bambara}{bm}{bam}{-}{-}{ML}{Latn}</code>
<code>\@tracklang@add@bashkir</code>	<code>\TrackLangDeclareLanguageOption{bashkir}{ba}{bak}{-}{-}{-}{Cyr1}</code>
<code>\@tracklang@add@basque</code>	<code>\TrackLangDeclareLanguageOption{basque}{eu}{eus}{baq}{-}{-}{Latn}</code>
<code>\@tracklang@add@belarusian</code>	<code>\TrackLangDeclareLanguageOption{belarusian}{be}{bel}{-}{-}{-}{Cyr1}</code>
<code>\@tracklang@add@bengali</code>	<code>\TrackLangDeclareLanguageOption{bengali}{bn}{ben}{-}{-}{-}{Beng}</code>
<code>\@tracklang@add@berber</code>	No default. Could be Tifinagh, Latin or Arabic. <code>\TrackLangDeclareLanguageOption{berber}{-}{ber}{-}{-}{-}{-}</code>
<code>\@tracklang@add@bihari</code>	No clear default. <code>\TrackLangDeclareLanguageOption{bihari}{bh}{bih}{-}{-}{-}{-}</code>
<code>\@tracklang@add@bislama</code>	<code>\TrackLangDeclareLanguageOption{bislama}{bi}{bis}{-}{-}{VU}{Latn}</code>

\@tracklang@add@bokmal  
\TrackLangDeclareLanguageOption{bokmal}{nb}{nob}{}{}{NO}{Latn}

\@tracklang@add@bosnian  
\TrackLangDeclareLanguageOption{bosnian}{bs}{bos}{}{}{}{Latn}

\@tracklang@add@breton  
\TrackLangDeclareLanguageOption{breton}{br}{bre}{}{}{}{FR}{Latn}

\@tracklang@add@bulgarian  
\TrackLangDeclareLanguageOption{bulgarian}{bg}{bul}{}{}{}{Cyr1}

\@tracklang@add@burmese  
\TrackLangDeclareLanguageOption{burmese}{my}{mya}{bur}{}{}{Mymr}

\@tracklang@add@catalan  
\TrackLangDeclareLanguageOption{catalan}{ca}{cat}{}{}{}{Latn}

\@tracklang@add@chamorro  
\TrackLangDeclareLanguageOption{chamorro}{ch}{cha}{}{}{}{Latn}

\@tracklang@add@chechen  
\TrackLangDeclareLanguageOption{chechen}{ce}{che}{}{}{}{Cyr1}

\@tracklang@add@chichewa  
\TrackLangDeclareLanguageOption{chichewa}{ny}{nya}{}{}{}{Latn}

\@tracklang@add@chinese  
\TrackLangDeclareLanguageOption{chinese}{zh}{zho}{chi}{}{}{Hans}

\@tracklang@add@churchslavonic  
\TrackLangDeclareLanguageOption{churchslavonic}{cu}{chu}{}{}{}{Glag}

\@tracklang@add@chuvash  
\TrackLangDeclareLanguageOption{chuvash}{cv}{chv}{}{}{}{RU}{Cyr1}

\@tracklang@add@coptic  
\TrackLangDeclareLanguageOption{coptic}{}{cop}{}{}{}{Copt}

\@tracklang@add@cornish  
\TrackLangDeclareLanguageOption{cornish}{kw}{cor}{}{}{}{GB}{Latn}

\@tracklang@add@corsican  
\TrackLangDeclareLanguageOption{corsican}{co}{cos}{}{}{}{Latn}

\@tracklang@add@cree  
\TrackLangDeclareLanguageOption{cree}{cr}{cre}{}{}{}{Cans}

\@tracklang@add@croatian  
\TrackLangDeclareLanguageOption{croatian}{hr}{hrv}{}{}{Latn}

\@tracklang@add@czech  
\TrackLangDeclareLanguageOption{czech}{cs}{ces}{cze}{}{}{Latn}

\@tracklang@add@danish  
\TrackLangDeclareLanguageOption{danish}{da}{dan}{}{}{Latn}

\@tracklang@add@divehi  
\TrackLangDeclareLanguageOption{divehi}{dv}{div}{}{}{MV}{Thaa}

\@tracklang@add@dutch  
\TrackLangDeclareLanguageOption{dutch}{nl}{nld}{dut}{}{}{Latn}

\@tracklang@add@dzongkha  
\TrackLangDeclareLanguageOption{dzongkha}{dz}{dzo}{}{}{BT}{Tibt}

\@tracklang@add@easternpunjabi  
\TrackLangDeclareLanguageOption{easternpunjabi}{pa}{pan}{}{}{IN}{Guru}

\@tracklang@add@english  
\TrackLangDeclareLanguageOption{english}{en}{eng}{}{}{Latn}

\@tracklang@add@esperanto  
\TrackLangDeclareLanguageOption{esperanto}{eo}{epo}{}{}{Latn}

\@tracklang@add@estonian  
\TrackLangDeclareLanguageOption{estonian}{et}{est}{}{}{Latn}

\@tracklang@add@ewe  
\TrackLangDeclareLanguageOption{ewe}{ee}{ewe}{}{}{Latn}

\@tracklang@add@faroeese  
\TrackLangDeclareLanguageOption{faroeese}{fo}{fao}{}{}{Latn}

\@tracklang@add@farsi  
\TrackLangDeclareLanguageOption{farsi}{fa}{fas}{per}{}{}{Arab}

\@tracklang@add@fijian  
\TrackLangDeclareLanguageOption{fijian}{fj}{fij}{}{}{FJ}{Latn}

\@tracklang@add@finnish  
\TrackLangDeclareLanguageOption{finnish}{fi}{fin}{}{}{Latn}

\@tracklang@add@french  
\TrackLangDeclareLanguageOption{french}{fr}{fra}{fre}{}{}{Latn}

`\@tracklang@add@friulan`  
`\TrackLangDeclareLanguageOption{friulan}{fur}{IT}{Latn}`

`\@tracklang@add@fula` No default. Could be Latin or Arabic.  
`\TrackLangDeclareLanguageOption{fula}{ff}{ful}{}{}{}`

`\@tracklang@add@galician`  
`\TrackLangDeclareLanguageOption{galician}{gl}{glg}{}{}{Latn}`

`\@tracklang@add@ganda`  
`\TrackLangDeclareLanguageOption{ganda}{lg}{lug}{}{}{UG}{Latn}`

`\@tracklang@add@georgian`  
`\TrackLangDeclareLanguageOption{georgian}{ka}{kat}{geo}{}{}{Geor}`

`\@tracklang@add@german`  
`\TrackLangDeclareLanguageOption{german}{de}{deu}{ger}{}{}{Latn}`

`\@tracklang@add@greek`  
`\TrackLangDeclareLanguageOption{greek}{el}{ell}{gre}{}{}{Grek}`

`\@tracklang@add@guarani`  
`\TrackLangDeclareLanguageOption{guarani}{gn}{grn}{}{}{Latn}`

`\@tracklang@add@gujarati`  
`\TrackLangDeclareLanguageOption{gujarati}{gu}{guj}{}{}{Gujr}`

`\@tracklang@add@haitian`  
`\TrackLangDeclareLanguageOption{haitian}{ht}{hat}{}{}{HT}{Latn}`

`\@tracklang@add@hausa`  
`\TrackLangDeclareLanguageOption{hausa}{ha}{hau}{}{}{Latn}`

`\@tracklang@add@hebrew`  
`\TrackLangDeclareLanguageOption{hebrew}{he}{heb}{}{}{Hebr}`

`\@tracklang@add@herero`  
`\TrackLangDeclareLanguageOption{herero}{hz}{her}{}{}{Latn}`

`\@tracklang@add@hindi`  
`\TrackLangDeclareLanguageOption{hindi}{hi}{hin}{}{}{Deva}`

`\@tracklang@add@hirimotu`  
`\TrackLangDeclareLanguageOption{hirimotu}{ho}{hmo}{}{}{PG}{Latn}`

`\@tracklang@add@icelandic`  
`\TrackLangDeclareLanguageOption{icelandic}{is}{isl}{ice}{}{}{IS}{Latn}`

<code>\@tracklang@add@ido</code>	<code>\TrackLangDeclareLanguageOption{ido}{io}{ido}{}{}{Latn}</code>
<code>\@tracklang@add@igbo</code>	<code>\TrackLangDeclareLanguageOption{igbo}{ig}{ibo}{}{}{Latn}</code>
<code>\@tracklang@add@interlingua</code>	<code>\TrackLangDeclareLanguageOption{interlingua}{ia}{ina}{}{}{Latn}</code>
<code>\@tracklang@add@interlingue</code>	<code>\TrackLangDeclareLanguageOption{interlingue}{ie}{ile}{}{}{Latn}</code>
<code>\@tracklang@add@inuktitut</code>	<code>\TrackLangDeclareLanguageOption{inuktitut}{iu}{iku}{}{}{Cans}</code>
<code>\@tracklang@add@inupiaq</code>	<code>\TrackLangDeclareLanguageOption{inupiaq}{ik}{ipk}{}{}{Latn}</code>
<code>\@tracklang@add@irish</code>	<code>\TrackLangDeclareLanguageOption{irish}{ga}{gle}{}{}{Latn}</code>
<code>\@tracklang@add@italian</code>	<code>\TrackLangDeclareLanguageOption{italian}{it}{ita}{}{}{Latn}</code>
<code>\@tracklang@add@japanese</code>	<code>\TrackLangDeclareLanguageOption{japanese}{ja}{jpn}{}{}{Hani}</code>
<code>\@tracklang@add@javanese</code>	<code>\TrackLangDeclareLanguageOption{javanese}{jv}{jav}{}{}{Latn}</code>
<code>\@tracklang@add@kalaallisut</code>	<code>\TrackLangDeclareLanguageOption{kalaallisut}{kl}{kal}{}{}{Latn}</code>
<code>\@tracklang@add@kannada</code>	<code>\TrackLangDeclareLanguageOption{kannada}{kn}{kan}{}{}{IN}{Knda}</code>
<code>\@tracklang@add@kanuri</code>	<code>\TrackLangDeclareLanguageOption{kanuri}{kr}{kau}{}{}{Latn}</code>
<code>\@tracklang@add@kashmiri</code>	No default script. Could be Arabic or Devanagari. <code>\TrackLangDeclareLanguageOption{kashmiri}{ks}{kas}{}{}{IN}{}{}</code>
<code>\@tracklang@add@kazakh</code>	Default script varies according to region. <code>\TrackLangDeclareLanguageOption{kazakh}{kk}{kaz}{}{}{}</code>
<code>\@tracklang@add@khmer</code>	<code>\TrackLangDeclareLanguageOption{khmer}{km}{khm}{}{}{Khmr}</code>

\@tracklang@add@kikuyu  
\TrackLangDeclareLanguageOption{kikuyu}{ki}{kik}{}{}{Latn}

\@tracklang@add@kinyarwanda  
\TrackLangDeclareLanguageOption{kinyarwanda}{rw}{kin}{}{}{Latn}

\@tracklang@add@kirundi  
\TrackLangDeclareLanguageOption{kirundi}{rn}{run}{}{}{Latn}

\@tracklang@add@komi  
\TrackLangDeclareLanguageOption{komi}{kv}{kom}{}{}{RU}{Cyr1}

\@tracklang@add@kongo  
\TrackLangDeclareLanguageOption{kongo}{kg}{kon}{}{}{Latn}

\@tracklang@add@korean  
\TrackLangDeclareLanguageOption{korean}{ko}{kor}{}{}{Hang}

\@tracklang@add@kurdish Script varies according to region.  
\TrackLangDeclareLanguageOption{kurdish}{ku}{kur}{}{}{}

\@tracklang@add@kwanyama  
\TrackLangDeclareLanguageOption{kwanyama}{kj}{kua}{}{}{Latn}

\@tracklang@add@kyrgyz  
\TrackLangDeclareLanguageOption{kyrgyz}{ky}{kir}{}{}{Cyr1}

\@tracklang@add@lao  
\TrackLangDeclareLanguageOption{lao}{lo}{lao}{}{}{Lao}

\@tracklang@add@latin  
\TrackLangDeclareLanguageOption{latin}{la}{lat}{}{}{Latn}

\@tracklang@add@latvian  
\TrackLangDeclareLanguageOption{latvian}{lv}{lav}{}{}{Latn}

\@tracklang@add@limburgish  
\TrackLangDeclareLanguageOption{limburgish}{li}{lim}{}{}{Latn}

\@tracklang@add@lingala  
\TrackLangDeclareLanguageOption{lingala}{ln}{lin}{}{}{Latn}

\@tracklang@add@lithuanian  
\TrackLangDeclareLanguageOption{lithuanian}{lt}{lit}{}{}{Latn}

\@tracklang@add@lsorbian  
\TrackLangDeclareLanguageOption{lsorbian}{}{dsb}{}{}{DE}{Latn}

\@tracklang@add@lubakatanga  
\TrackLangDeclareLanguageOption{lubakatanga}{lu}{lub}{}{}{CD}{Latn}

\@tracklang@add@luxembourgish  
\TrackLangDeclareLanguageOption{luxembourgish}{lb}{ltz}{}{}{Latn}

\@tracklang@add@macedonian  
\TrackLangDeclareLanguageOption{macedonian}{mk}{mkd}{mac}{}{}{Cyr1}

\@tracklang@add@magyar  
\TrackLangDeclareLanguageOption{magyar}{hu}{hun}{}{}{Latn}

\@tracklang@add@malagasy  
\TrackLangDeclareLanguageOption{malagasy}{mg}{mlg}{}{}{Latn}

\@tracklang@add@malayalam  
\TrackLangDeclareLanguageOption{malayalam}{ml}{mal}{}{}{IN}{Mlym}

\@tracklang@add@maltese  
\TrackLangDeclareLanguageOption{maltese}{mt}{mlt}{}{}{Latn}

\@tracklang@add@manx  
\TrackLangDeclareLanguageOption{manx}{gv}{glv}{}{}{IM}{Latn}

\@tracklang@add@maori  
\TrackLangDeclareLanguageOption{maori}{mi}{mri}{mao}{}{NZ}{Latn}

\@tracklang@add@marathi  
\TrackLangDeclareLanguageOption{marathi}{mr}{mar}{}{}{IN}{Deva}

\@tracklang@add@marshalllese  
\TrackLangDeclareLanguageOption{marshalllese}{mh}{mah}{}{}{MH}{Latn}

\@tracklang@add@mongolian  
\TrackLangDeclareLanguageOption{mongolian}{mn}{mon}{}{}{Mong}

\@tracklang@add@nauruan  
\TrackLangDeclareLanguageOption{nauruan}{na}{nau}{}{}{NR}{Latn}

\@tracklang@add@navajo  
\TrackLangDeclareLanguageOption{navajo}{nv}{nav}{}{}{US}{Latn}

\@tracklang@add@endonga  
\TrackLangDeclareLanguageOption{ndonga}{ng}{ndo}{}{}{Latn}

\@tracklang@add@nepali  
\TrackLangDeclareLanguageOption{nepali}{ne}{nep}{}{}{Deva}



\@tracklang@add@nko  
\TrackLangDeclareLanguageOption{nko}{nqo}{}{}{Nkoo}

\@tracklang@add@northernndebele  
\TrackLangDeclareLanguageOption{northernndebele}{nd}{nde}{}{}{Latn}

\@tracklang@add@nynorsk  
\TrackLangDeclareLanguageOption{nynorsk}{nn}{nno}{}{}{NO}{Latn}

\@tracklang@add@norsk  
\TrackLangDeclareLanguageOption{norsk}{no}{nor}{}{}{Latn}

\@tracklang@add@northernsotho  
\TrackLangDeclareLanguageOption{northernsotho}{nso}{}{}{Latn}

\@tracklang@add@nuosu  
\TrackLangDeclareLanguageOption{nuosu}{ii}{iii}{}{}{CN}{Yiii}

\@tracklang@add@occitan  
\TrackLangDeclareLanguageOption{occitan}{oc}{oci}{}{}{Latn}

\@tracklang@add@ojibwe  
\TrackLangDeclareLanguageOption{ojibwe}{oj}{oji}{}{}{Latn}

\@tracklang@add@oromo  
\TrackLangDeclareLanguageOption{oromo}{om}{orm}{}{}{Latn}

\@tracklang@add@oriya  
\TrackLangDeclareLanguageOption{oriya}{or}{ori}{}{}{Orya}

\@tracklang@add@ossetian  
\TrackLangDeclareLanguageOption{ossetian}{os}{oss}{}{}{Cyr1}

\@tracklang@add@pali  
\TrackLangDeclareLanguageOption{pali}{pi}{pli}{}{}{Brah}

\@tracklang@add@pashto  
\TrackLangDeclareLanguageOption{pashto}{ps}{pus}{}{}{Arab}

\@tracklang@add@piedmontese  
\TrackLangDeclareLanguageOption{piedmontese}{}{}{pms}{IT}{Latn}

\@tracklang@add@polish  
\TrackLangDeclareLanguageOption{polish}{pl}{pol}{}{}{Latn}

\@tracklang@add@portuges  
\TrackLangDeclareLanguageOption{portuges}{pt}{por}{}{}{Latn}

\@tracklang@add@quechua  
\TrackLangDeclareLanguageOption{quechua}{qu}{que}{}{}{Latn}

\@tracklang@add@romanian  
\TrackLangDeclareLanguageOption{romanian}{ro}{ron}{rum}{}{}{Latn}

\@tracklang@add@romansh  
\TrackLangDeclareLanguageOption{romansh}{rm}{roh}{}{}{CH}{Latn}

\@tracklang@add@russian  
\TrackLangDeclareLanguageOption{russian}{ru}{rus}{}{}{Cyr1}

\@tracklang@add@samin  
\TrackLangDeclareLanguageOption{samin}{se}{sme}{}{}{Latn}

\@tracklang@add@sanskrit  
\TrackLangDeclareLanguageOption{sanskrit}{sa}{san}{}{}{}

\@tracklang@add@samoan  
\TrackLangDeclareLanguageOption{samoan}{sm}{smo}{}{}{Latn}

\@tracklang@add@sango  
\TrackLangDeclareLanguageOption{sango}{sg}{sag}{}{}{Latn}

\@tracklang@add@sardinian  
\TrackLangDeclareLanguageOption{sardinian}{sc}{srd}{}{}{IT}{Latn}

\@tracklang@add@scottish Also spoken in Canada, so no region.  
\TrackLangDeclareLanguageOption{scottish}{gd}{gla}{}{}{Latn}

\@tracklang@add@serbian  
\TrackLangDeclareLanguageOption{serbian}{sr}{srp}{}{}{Cyr1}

\@tracklang@add@shona  
\TrackLangDeclareLanguageOption{shona}{sn}{sna}{}{}{Latn}

\@tracklang@add@sindhi  
\TrackLangDeclareLanguageOption{sindhi}{sd}{snd}{}{}{Sind}

\@tracklang@add@sinhalese  
\TrackLangDeclareLanguageOption{sinhalese}{si}{sin}{}{}{LK}{Sinh}

\@tracklang@add@slovak  
\TrackLangDeclareLanguageOption{slovak}{sk}{slk}{slo}{}{}{Latn}

\@tracklang@add@slovene  
\TrackLangDeclareLanguageOption{slovene}{sl}{slv}{}{}{Latn}

\@tracklang@add@somali  
\TrackLangDeclareLanguageOption{somali}{so}{som}{}{}{Latn}

\@tracklang@add@southernndebele  
\TrackLangDeclareLanguageOption{southernndebele}{nr}{nbl}{}{}{ZA}{Latn}

\@tracklang@add@southernsotho  
\TrackLangDeclareLanguageOption{southernsotho}{st}{sot}{}{}{Latn}

\@tracklang@add@spanish  
\TrackLangDeclareLanguageOption{spanish}{es}{spa}{}{}{Latn}

\@tracklang@add@sudanese  
\TrackLangDeclareLanguageOption{sudanese}{su}{sun}{}{}{Sund}

\@tracklang@add@swahili  
\TrackLangDeclareLanguageOption{swahili}{sw}{swa}{}{}{}

\@tracklang@add@swati  
\TrackLangDeclareLanguageOption{swati}{ss}{sww}{}{}{Latn}

\@tracklang@add@swedish  
\TrackLangDeclareLanguageOption{swedish}{sv}{swe}{}{}{Latn}

\@tracklang@add@syriac  
\TrackLangDeclareLanguageOption{syriac}{}{syr}{}{}{Syrc}

\@tracklang@add@tagalog  
\TrackLangDeclareLanguageOption{tagalog}{tl}{tgl}{}{}{PH}{Latn}

\@tracklang@add@tahitian  
\TrackLangDeclareLanguageOption{tahitian}{ty}{tah}{}{}{PF}{Latn}

\@tracklang@add@tai  
\TrackLangDeclareLanguageOption{tai}{}{tai}{}{}{}

\@tracklang@add@tajik  
\TrackLangDeclareLanguageOption{tajik}{tg}{tgk}{}{}{Cyr1}

\@tracklang@add@tamil  
\TrackLangDeclareLanguageOption{tamil}{ta}{tam}{}{}{Taml}

\@tracklang@add@tatar  
\TrackLangDeclareLanguageOption{tatar}{tt}{tat}{}{}{Cyr1}

\@tracklang@add@telugu  
\TrackLangDeclareLanguageOption{telugu}{te}{tel}{}{}{IN}{Telu}

```

\@tracklang@add@thai
\TrackLangDeclareLanguageOption{thai}{th}{tha}{}{}{TH}{Thai}

\@tracklang@add@tibetan
\TrackLangDeclareLanguageOption{tibetan}{bo}{bod}{tib}{}{}{Tibt}

\@tracklang@add@tigrinya
\TrackLangDeclareLanguageOption{tigrinya}{ti}{tir}{}{}{Ethi}

\@tracklang@add@tonga
\TrackLangDeclareLanguageOption{tonga}{to}{ton}{}{}{T0}{Latn}

\@tracklang@add@tsonga
\TrackLangDeclareLanguageOption{tsonga}{ts}{tso}{}{}{Latn}

\@tracklang@add@tswana
\TrackLangDeclareLanguageOption{tswana}{tn}{tsn}{}{}{Latn}

\@tracklang@add@turkish
\TrackLangDeclareLanguageOption{turkish}{tr}{tur}{}{}{Latn}

\@tracklang@add@turkmen
\TrackLangDeclareLanguageOption{turkmen}{tk}{tuk}{}{}{Latn}

\@tracklang@add@twi
\TrackLangDeclareLanguageOption{twi}{tw}{twi}{}{}{GH}{Latn}

\@tracklang@add@ukrainian
\TrackLangDeclareLanguageOption{ukrainian}{uk}{ukr}{}{}{UA}{Cyr1}

\@tracklang@add@urdu
\TrackLangDeclareLanguageOption{urdu}{ur}{urd}{}{}{Arab}

\@tracklang@add@usorbian
\TrackLangDeclareLanguageOption{usorbian}{}{hsb}{}{}{DE}{Latn}

\@tracklang@add@uyghur
\TrackLangDeclareLanguageOption{uyghur}{ug}{uig}{}{}{CN}{Arab}

\@tracklang@add@uzbek
\TrackLangDeclareLanguageOption{uzbek}{uz}{uzb}{}{}{Latn}

\@tracklang@add@venda
\TrackLangDeclareLanguageOption{venda}{ve}{ven}{}{}{ZA}{Latn}

\@tracklang@add@vietnamese
\TrackLangDeclareLanguageOption{vietnamese}{vi}{vie}{}{}{Latn}

```

`\@tracklang@add@volapuk`

```
\TrackLangDeclareLanguageOption{volapuk}{vo}{vol}{}{}{Latn}
```

`\@tracklang@add@walloon`

No country code as Walloon is spoken in multiple regions (Wallonia in Belgium, some villages in Northern France and north-east of Wisconsin.) Not the same as Belgian French.

```
\TrackLangDeclareLanguageOption{walloon}{wa}{wln}{}{}{Latn}
```

`\@tracklang@add@welsh`

Also spoken in Argentina, so no region.

```
\TrackLangDeclareLanguageOption{welsh}{cy}{cym}{wel}{}{}{Latn}
```

`\@tracklang@add@westernfrisian`

```
\TrackLangDeclareLanguageOption{westernfrisian}{fy}{fry}{}{}{NL}{Latn}
```

`\@tracklang@add@wolof`

```
\TrackLangDeclareLanguageOption{wolof}{wo}{wol}{}{}{Latn}
```

`\@tracklang@add@xhosa`

```
\TrackLangDeclareLanguageOption{xhosa}{xh}{xho}{}{}{Latn}
```

`\@tracklang@add@yiddish`

```
\TrackLangDeclareLanguageOption{yiddish}{yi}{yid}{}{}{Hebr}
```

`\@tracklang@add@yoruba`

```
\TrackLangDeclareLanguageOption{yoruba}{yo}{yor}{}{}{Latn}
```

`\@tracklang@add@zhuang`

```
\TrackLangDeclareLanguageOption{zhuang}{za}{zha}{}{}{CN}{Hani}
```

`\@tracklang@add@zulu`

```
\TrackLangDeclareLanguageOption{zulu}{zu}{zul}{}{}{Latn}
```

## 6.2.6 Predefined Dialects

Provide some predefined dialects.

`\TrackLangDeclareDialectOption`

```
\TrackLangDeclareDialectOption{<dialect>}{<root language>}{<3166-1
code>}{<modifier>}{<variant>}{<map>}{<script>}
```

The option name is the same as the dialect name. The arguments must be expanded before use. The final argument *<map>* is the mapping from *<dialect>* to the closest babel dialect label. May be empty if no relevant mapping.

```
\def\TrackLangDeclareDialectOption#1#2#3#4#5#6#7{%
\@tracklang@ifundef{\@tracklang@add@#1}%
{%
\ifx\relax#3\relax
```

No region.

```
\ifx\relax#4\relax
```

No modifier.

```
\ifx\relax#5\relax
```

No variant.

```
\@tracklang@namedef{@tracklang@add@#1}{%  
  \AddTrackedDialect{#1}{#2}%  
  \AddTrackedLanguageIsoCodes{#2}%
```

Make it easier for the parser to pick up the dialect label. Note that this should be the same as `\TrackLangLastTrackedDialect` but the parser references `\@tracklang@dialect`.

```
\def\@tracklang@dialect{#1}%  
}%  
\else
```

Has variant but no modifier.

```
\@tracklang@namedef{@tracklang@add@#1}{%  
  \AddTrackedDialect{#1}{#2}%  
  \AddTrackedLanguageIsoCodes{#2}%  
  \SetTrackedDialectVariant{#1}{#5}%  
  \def\@tracklang@dialect{#1}%  
}%  
\fi  
\else
```

Has modifier.

```
\ifx\relax#5\relax
```

No variant.

```
\@tracklang@namedef{@tracklang@add@#1}{%  
  \AddTrackedDialect{#1}{#2}%  
  \AddTrackedLanguageIsoCodes{#2}%  
  \SetTrackedDialectModifier{#1}{#4}%  
  \def\@tracklang@dialect{#1}%  
}%  
\else
```

Variant and modifier.

```
\@tracklang@namedef{@tracklang@add@#1}{%  
  \AddTrackedDialect{#1}{#2}%  
  \AddTrackedLanguageIsoCodes{#2}%  
  \SetTrackedDialectModifier{#1}{#4}%  
  \SetTrackedDialectVariant{#1}{#5}%  
  \def\@tracklang@dialect{#1}%  
}%  
\fi  
\fi  
\else
```

Has a region.

```
\ifx\relax#4\relax
```

No modifier.

```
\ifx\relax#5\relax
```

No variant.

```
\@tracklang@namedef{@tracklang@add@#1}{%  
  \AddTrackedDialect{#1}{#2}%  
  \AddTrackedLanguageIsoCodes{#2}%  
  \AddTrackedIsoLanguage{3166-1}{#3}{#1}%  
  \def\@tracklang@dialect{#1}%  
}%  
\else
```

Variant no modifier.

```
\@tracklang@namedef{@tracklang@add@#1}{%
  \AddTrackedDialect{#1}{#2}%
  \AddTrackedLanguageIsoCodes{#2}%
  \AddTrackedIsoLanguage{3166-1}{#3}{#1}%
  \SetTrackedDialectVariant{#1}{#5}%
  \def\@tracklang@dialect{#1}%
}%
\fi
\else
```

Has modifier.

```
\ifx\relax#5\relax
```

No variant.

```
\@tracklang@namedef{@tracklang@add@#1}{%
  \AddTrackedDialect{#1}{#2}%
  \AddTrackedLanguageIsoCodes{#2}%
  \AddTrackedIsoLanguage{3166-1}{#3}{#1}%
  \SetTrackedDialectModifier{#1}{#4}%
  \def\@tracklang@dialect{#1}%
}%
\else
```

Variant and modifier.

```
\@tracklang@namedef{@tracklang@add@#1}{%
  \AddTrackedDialect{#1}{#2}%
  \AddTrackedLanguageIsoCodes{#2}%
  \AddTrackedIsoLanguage{3166-1}{#3}{#1}%
  \SetTrackedDialectModifier{#1}{#4}%
  \SetTrackedDialectVariant{#1}{#5}%
  \def\@tracklang@dialect{#1}%
}%
\fi
\fi
\fi
```

Add the mapping if provided.

```
\ifx\relax#6\relax
\else
  \expandafter
  \let\expandafter\@tracklang@tmp\csname @tracklang@add@#1\endcsname
  \expandafter\def\csname @tracklang@add@#1\expandafter\endcsname

  \expandafter{\@tracklang@tmp\SetTrackedDialectLabelMap{#1}{#6}}%
\fi
```

Add the script if provided.

```
\ifx\relax#7\relax
\else
  \expandafter
  \let\expandafter\@tracklang@tmp\csname @tracklang@add@#1\endcsname
  \expandafter\def\csname @tracklang@add@#1\expandafter\endcsname
  \expandafter{\@tracklang@tmp\SetTrackedDialectScript{#1}{#7}}%
\fi
\@tracklang@declareoption{#1}%
}%
{%
\@tracklang@err{dialect option ‘#1’ has already been defined}{}%
}%
}
```

```

\@tracklang@add@acadian
\TrackLangDeclareDialectOption{acadian}{french}{}{}{}{}

\@tracklang@add@american
\TrackLangDeclareDialectOption{american}{english}{US}{}{}{}{}

\@tracklang@add@australian
\TrackLangDeclareDialectOption{australian}{english}{AU}{}{}{}{}

\@tracklang@add@austrian
\TrackLangDeclareDialectOption{austrian}{german}{AT}{}{}{}{}

\@tracklang@add@naustrian
\TrackLangDeclareDialectOption{naustrian}{german}{AT}{new}{1996}{}{}

\@tracklang@add@bahasa
\TrackLangDeclareDialectOption{bahasa}{bahasai}{IN}{}{}{}{}

\@tracklang@add@brazil
\TrackLangDeclareDialectOption{brazil}{portuges}{BR}{}{}{}{}

\@tracklang@add@brazilian
\TrackLangDeclareDialectOption{brazilian}{portuges}{BR}{}{}{}{}

\@tracklang@add@british
\TrackLangDeclareDialectOption{british}{english}{GB}{}{}{}{}

\@tracklang@add@canadian
\TrackLangDeclareDialectOption{canadian}{english}{CA}{}{}{}{}

\@tracklang@add@canadien
\TrackLangDeclareDialectOption{canadien}{french}{CA}{}{}{}{}

\@tracklang@add@croatia
\TrackLangDeclareDialectOption{croatia}{croatian}{HR}{}{}{}{}

\@tracklang@add@istriacountycroatian
\TrackLangDeclareDialectOption{istriacountycroatian}{croatian}{HR}{}{}{}{}

\@tracklang@add@istriacountyitalian
\TrackLangDeclareDialectOption{istriacountyitalian}{italian}{HR}{}{}{}{}

\@tracklang@add@netherlands
\TrackLangDeclareDialectOption{netherlands}{dutch}{NL}{}{}{}{}

\@tracklang@add@persian
\TrackLangDeclareDialectOption{persian}{farsi}{}{}{}{}

```



```

\@tracklang@add@flemish
\TrackLangDeclareDialectOption{flemish}{dutch}{BE}{}{}{}

\@tracklang@add@francais
\TrackLangDeclareDialectOption{francais}{french}{}{}{}{}

\@tracklang@add@frenchb
\TrackLangDeclareDialectOption{frenchb}{french}{}{}{}{}

\@tracklang@add@france
\TrackLangDeclareDialectOption{france}{french}{FR}{}{}{}

\@tracklang@add@belgique
\TrackLangDeclareDialectOption{belgique}{french}{BE}{}{}{}

\@tracklang@add@belgiangerman
\TrackLangDeclareDialectOption{belgiangerman}{german}{BE}{}{}{}

\@tracklang@add@nbelgiangerman
\TrackLangDeclareDialectOption{nbelgiangerman}{german}{BE}{new}{1996}{ngerman}{}

\@tracklang@add@friulian
\TrackLangDeclareDialectOption{friulian}{friulan}{IT}{}{}{}

\@tracklang@add@friulano
\TrackLangDeclareDialectOption{friulano}{friulan}{IT}{}{}{}

\@tracklang@add@furlan Added since it's a babel alias for friulan.
\TrackLangDeclareDialectOption{furlan}{friulan}{IT}{}{}{}

\@tracklang@add@kurmanji Added since it's a babel label.
\TrackLangDeclareDialectOption{kurmanji}{kurdish}{}{}{}{}

\@tracklang@add@galicien
\TrackLangDeclareDialectOption{galicien}{galician}{}{}{}{}

\@tracklang@add@deutsch
\TrackLangDeclareDialectOption{deutsch}{german}{}{}{}{}

\@tracklang@add@ngerman
\TrackLangDeclareDialectOption{ngerman}{german}{}{new}{1996}{}{}

\@tracklang@add@ngermanb
\TrackLangDeclareDialectOption{ngermanb}{german}{}{new}{1996}{ngerman}{}

\@tracklang@add@germanb
\TrackLangDeclareDialectOption{germanb}{german}{}{}{}{}

```

\@tracklang@add@ngermanDE  
\TrackLangDeclareDialectOption{ngermanDE}{german}{DE}{new}{1996}{ngerman}{}

\@tracklang@add@germanDE  
\TrackLangDeclareDialectOption{germanDE}{german}{DE}{}{}{}

\@tracklang@add@hungarian  
\TrackLangDeclareDialectOption{hungarian}{magyar}{HU}{}{}{}

\@tracklang@add@indon  
\TrackLangDeclareDialectOption{indon}{bahasai}{IN}{}{}{}

\@tracklang@add@indonesian  
\TrackLangDeclareDialectOption{indonesian}{bahasai}{IN}{}{}{}

\@tracklang@add@gaeilge  
\TrackLangDeclareDialectOption{gaeilge}{irish}{}{}{}

\@tracklang@add@IEirish Irish spoken in Republic of Ireland  
\TrackLangDeclareDialectOption{IEirish}{irish}{IE}{}{}{}

\@tracklang@add@GBirish Irish spoken in the United Kingdom of Great Britain and Northern Ireland  
\TrackLangDeclareDialectOption{GBirish}{irish}{GB}{}{}{}

\@tracklang@add@IEenglish English spoken in the Republic of Ireland.  
\TrackLangDeclareDialectOption{IEenglish}{english}{IE}{}{}{british}{}

\@tracklang@add@italy  
\TrackLangDeclareDialectOption{italy}{italian}{IT}{}{}{}

\@tracklang@add@vatican  
\TrackLangDeclareDialectOption{vatican}{italian}{VA}{}{}{}

\@tracklang@add@sanmarino  
\TrackLangDeclareDialectOption{sanmarino}{italian}{SM}{}{}{}

\@tracklang@add@sloveneistriaitalian  
\TrackLangDeclareDialectOption{sloveneistriaitalian}{italian}{SI}{}{}{}

\@tracklang@add@jerseyenglish Allow it to hook to pick up \captionbritish as well as \captionenglish since the date format closely matches british.  
\TrackLangDeclareDialectOption{jerseyenglish}{english}{JE}{}{}{british}{}

\@tracklang@add@jerseyfrench  
\TrackLangDeclareDialectOption{jerseyfrench}{french}{JE}{}{}{}

\@tracklang@add@guernseyenglish Allow it to hook to pick up \captionbritish as well as \captionenglish since the date format closely matches british.  
\TrackLangDeclareDialectOption{guernseyenglish}{english}{GG}{}{}{british}{}

`\@tracklang@add@guernseyfrench`  
`\TrackLangDeclareDialectOption{guernseyfrench}{french}{GG}{-}{-}{-}`

`\@tracklang@add@latein`  
`\TrackLangDeclareDialectOption{latein}{latin}{-}{-}{-}{-}`

`\@tracklang@add@lowersorbian`  
`\TrackLangDeclareDialectOption{lowersorbian}{lsorbian}{DE}{-}{-}{-}`

`\@tracklang@add@malay`  
`\TrackLangDeclareDialectOption{malay}{bahasam}{MY}{-}{-}{-}`

`\@tracklang@add@meyalu`  
`\TrackLangDeclareDialectOption{meyalu}{bahasam}{MY}{-}{-}{-}`

`\@tracklang@add@maltamaltese`  
`\TrackLangDeclareDialectOption{maltamaltese}{maltese}{MT}{-}{-}{-}`

`\@tracklang@add@maltaenglish` Allow it to hook to pick up `\captionbritish` as well as `\captionenglish` since the date format closely matches british.  
`\TrackLangDeclareDialectOption{maltaenglish}{english}{MT}{-}{-}{british}`

`\@tracklang@add@newzealand`  
`\TrackLangDeclareDialectOption{newzealand}{english}{NZ}{-}{-}{-}`

`\@tracklang@add@isleofmanenglish` Allow it to hook to pick up `\captionbritish` as well as `\captionenglish` since the date format closely matches british.  
`\TrackLangDeclareDialectOption{isleofmanenglish}{english}{IM}{-}{-}{british}`

`\@tracklang@add@norwegian`  
`\TrackLangDeclareDialectOption{norwegian}{norsk}{NO}{-}{-}{-}`

`\@tracklang@add@piemonteis`  
`\TrackLangDeclareDialectOption{piemonteis}{piedmontese}{IT}{-}{-}{-}`

`\@tracklang@add@polutonikogreek`  
`\TrackLangDeclareDialectOption{polutonikogreek}{greek}{-}{polyton}{-}{-}`

`\@tracklang@add@polutoniko`  
`\TrackLangDeclareDialectOption{polutoniko}{greek}{-}{polyton}{-}{-}`

`\@tracklang@add@portuguese`  
`\TrackLangDeclareDialectOption{portuguese}{portuges}{-}{-}{-}{-}`

`\@tracklang@add@portugal`  
`\TrackLangDeclareDialectOption{portugal}{portuges}{PT}{-}{-}{-}`

```

\@tracklang@add@romansch
\TrackLangDeclareDialectOption{romansch}{romansh}{}{}{}{}

\@tracklang@add@rumantsch
\TrackLangDeclareDialectOption{rumantsch}{romansh}{}{}{}{}

\@tracklang@add@romanche
\TrackLangDeclareDialectOption{romanche}{romansh}{}{}{}{}

\@tracklang@add@russianb
\TrackLangDeclareDialectOption{russianb}{russian}{}{}{}{}

\@tracklang@add@gaelic
\TrackLangDeclareDialectOption{gaelic}{scottish}{}{}{}{}

\@tracklang@add@GBscottish
\TrackLangDeclareDialectOption{GBscottish}{scottish}{GB}{}{}{}{}

\@tracklang@add@serbianc
\TrackLangDeclareDialectOption{serbianc}{serbian}{}{}{}{}{Cyril}

\@tracklang@add@serbianl
\TrackLangDeclareDialectOption{serbianl}{serbian}{}{}{}{}{Latn}

\@tracklang@add@slovenian
\TrackLangDeclareDialectOption{slovenian}{slovene}{}{}{}{}{}

\@tracklang@add@slovenia
\TrackLangDeclareDialectOption{slovenia}{slovene}{SI}{}{}{slovenian}{}

\@tracklang@add@sloveneistriasslovenian
\TrackLangDeclareDialectOption{sloveneistriasslovenian}{slovene}{SI}{}{}{slovenian}{}

\@tracklang@add@spainspanish
\TrackLangDeclareDialectOption{spainspanish}{spanish}{ES}{}{}{}{}

\@tracklang@add@argentinespanish
\TrackLangDeclareDialectOption{argentinespanish}{spanish}{AR}{}{}{}{}

\@tracklang@add@bolivianspanish
\TrackLangDeclareDialectOption{bolivianspanish}{spanish}{BO}{}{}{}{}

\@tracklang@add@chilianspanish
\TrackLangDeclareDialectOption{chilianspanish}{spanish}{CL}{}{}{}{}

\@tracklang@add@columbianspanish
\TrackLangDeclareDialectOption{columbianspanish}{spanish}{CO}{}{}{}{}

```

```

@tracklang@add@costaricanspanish
\TrackLangDeclareDialectOption{costaricanspanish}{spanish}{CR}{}{}{}

\@tracklang@add@cubanspanish
\TrackLangDeclareDialectOption{cubanspanish}{spanish}{CU}{}{}{}

@tracklang@add@dominicanspanish
\TrackLangDeclareDialectOption{dominicanspanish}{spanish}{DO}{}{}{}

\@tracklang@add@ecudorianspanish
\TrackLangDeclareDialectOption{ecudorianspanish}{spanish}{EC}{}{}{}

@tracklang@add@elsalvadorspanish
\TrackLangDeclareDialectOption{elsalvadorspanish}{spanish}{SV}{}{}{}

@tracklang@add@guatemalanspanish
\TrackLangDeclareDialectOption{guatemalanspanish}{spanish}{GT}{}{}{}

\@tracklang@add@honduranspanish
\TrackLangDeclareDialectOption{honduranspanish}{spanish}{HN}{}{}{}

\@tracklang@add@mexicanspanish
\TrackLangDeclareDialectOption{mexicanspanish}{spanish}{MX}{}{}{}

@tracklang@add@nicaraguanspanish
\TrackLangDeclareDialectOption{nicaraguanspanish}{spanish}{NI}{}{}{}

\@tracklang@add@panamaspanish
\TrackLangDeclareDialectOption{panamaspanish}{spanish}{PA}{}{}{}

\@tracklang@add@paraguayspanish
\TrackLangDeclareDialectOption{paraguayspanish}{spanish}{PY}{}{}{}

\@tracklang@add@peruvianspanish
\TrackLangDeclareDialectOption{peruvianspanish}{spanish}{PE}{}{}{}

@tracklang@add@puertoricospanish
\TrackLangDeclareDialectOption{puertoricospanish}{spanish}{PR}{}{}{}

\@tracklang@add@uruguayspanish
\TrackLangDeclareDialectOption{uruguayspanish}{spanish}{UY}{}{}{}

@tracklang@add@venezuelanspanish
\TrackLangDeclareDialectOption{venezuelanspanish}{spanish}{VE}{}{}{}

\@tracklang@add@swissgerman
\TrackLangDeclareDialectOption{swissgerman}{german}{CH}{}{}{}

```

```

\@tracklang@add@nswissgerman
\TrackLangDeclareDialectOption{nswissgerman}{german}{CH}{new}{1996}{ngerman}{}

\@tracklang@add@swissfrench
\TrackLangDeclareDialectOption{swissfrench}{french}{CH}{}{}{}

\@tracklang@add@swissitalian
\TrackLangDeclareDialectOption{swissitalian}{italian}{CH}{}{}{}

\@tracklang@add@swissromansh
\TrackLangDeclareDialectOption{swissromansh}{romansh}{CH}{}{}{}

\@tracklang@add@UKenglish
\TrackLangDeclareDialectOption{UKenglish}{english}{GB}{}{}{}

\@tracklang@add@ukraineб
\TrackLangDeclareDialectOption{ukraineб}{ukrainian}{UA}{}{}{}

\@tracklang@add@ukraine
\TrackLangDeclareDialectOption{ukraine}{ukrainian}{UA}{}{}{}

\@tracklang@add@uppersorbian
\TrackLangDeclareDialectOption{uppersorbian}{usorbian}{DE}{}{}{}

\@tracklang@add@USEnglish
\TrackLangDeclareDialectOption{USEnglish}{english}{US}{}{}{}

\@tracklang@add@valencian
\TrackLangDeclareDialectOption{valencian}{catalan}{}{}{}{}

\@tracklang@add@valencien
\TrackLangDeclareDialectOption{valencien}{catalan}{}{}{}{}

\@tracklang@add@cymraeg
\TrackLangDeclareDialectOption{cymraeg}{welsh}{}{}{}{}

\@tracklang@add@GBwelsh
\TrackLangDeclareDialectOption{GBwelsh}{welsh}{GB}{}{}{}

```

## 6.2.7 Dialect Option Synonyms

Add some dialect synonyms:

```

\LetTrackLangSynonym
\def\LetTrackLangSynonym#1#2{%
\expandafter\let\csname @tracklang@add@#1\expandafter\endcsname
\csname @tracklang@add@#2\endcsname
}

```

```

\LetTrackLangOption
\def\LetTrackLangOption#1#2{%
  \LetTrackLangSynonym{#1}{#2}%
  \@tracklang@declareoption{#1}%
}

\@tracklang@add@en-US
\LetTrackLangOption{en-US}{american}

\@tracklang@add@en-GB
\LetTrackLangOption{en-GB}{british}

\@tracklang@add@en-AU
\LetTrackLangOption{en-AU}{australian}

\@tracklang@add@en-NZ
\LetTrackLangOption{en-NZ}{newzealand}

\@tracklang@add@en-CA
\LetTrackLangOption{en-CA}{canadian}

\@tracklang@add@fr-CA
\LetTrackLangOption{fr-CA}{canadien}

\@tracklang@add@fr-BE
\LetTrackLangOption{fr-BE}{belgique}

\@tracklang@add@pt-BR
\LetTrackLangOption{pt-BR}{brazilian}

\@tracklang@add@it-HR
\LetTrackLangOption{it-HR}{istriacountyitalian}

\@tracklang@add@nl-BE
\LetTrackLangOption{nl-BE}{flemish}

\@tracklang@add@fr-FR
\LetTrackLangOption{fr-FR}{france}

\@tracklang@add@de-DE
\LetTrackLangOption{de-DE}{germanDE}

\@tracklang@add@de-BE
\LetTrackLangOption{de-BE}{belgiangerman}

\@tracklang@add@en-GG
\LetTrackLangOption{en-GG}{guernseyenglish}

```

\@tracklang@add@fr-GG  
\LetTrackLangOption{fr-GG}{guernseyfrench}

\@tracklang@add@it-IT  
\LetTrackLangOption{it-IT}{italy}

\@tracklang@add@mt-MT  
\LetTrackLangOption{mt-MT}{maltamaltese}

\@tracklang@add@en-MT  
\LetTrackLangOption{en-MT}{maltaenglish}

\@tracklang@add@en-IM  
\LetTrackLangOption{en-IM}{isleofmanenglish}

\@tracklang@add@en-JE  
\LetTrackLangOption{en-JE}{jerseyenglish}

\@tracklang@add@fr-JE  
\LetTrackLangOption{fr-JE}{jerseyfrench}

\@tracklang@add@nl-NL  
\LetTrackLangOption{nl-NL}{netherlands}

\@tracklang@add@pt-PT  
\LetTrackLangOption{pt-PT}{portugal}

\@tracklang@add@it-SM  
\LetTrackLangOption{it-SM}{sanmarino}

\@tracklang@add@sl-SI  
\LetTrackLangOption{sl-SI}{slovenia}

\@tracklang@add@it-SI  
\LetTrackLangOption{it-SI}{sloveneistriaitalian}

\@tracklang@add@es-ES  
\LetTrackLangOption{es-ES}{spainspanish}

\@tracklang@add@es-AR  
\LetTrackLangOption{es-AR}{argentinespanish}

\@tracklang@add@es-BO  
\LetTrackLangOption{es-BO}{bolivianspanish}

\@tracklang@add@es-CL  
\LetTrackLangOption{es-CL}{chilianspanish}



\@tracklang@add@es-CO  
\LetTrackLangOption{es-CO}{columbianspanish}

\@tracklang@add@es-CR  
\LetTrackLangOption{es-CR}{costaricanspanish}

\@tracklang@add@es-CU  
\LetTrackLangOption{es-CU}{cubanspanish}

\@tracklang@add@es-DO  
\LetTrackLangOption{es-DO}{dominicanspanish}

\@tracklang@add@es-EC  
\LetTrackLangOption{es-EC}{ecudorianspanish}

\@tracklang@add@es-SV  
\LetTrackLangOption{es-SV}{elsalvadorspanish}

\@tracklang@add@es-GT  
\LetTrackLangOption{es-GT}{guatemalanspanish}

\@tracklang@add@es-HN  
\LetTrackLangOption{es-HN}{honduranspanish}

\@tracklang@add@es-MX  
\LetTrackLangOption{es-MX}{mexicanspanish}

\@tracklang@add@es-NI  
\LetTrackLangOption{es-NI}{nicaraguanspanish}

\@tracklang@add@es-PA  
\LetTrackLangOption{es-PA}{panamaspanish}

\@tracklang@add@es-PY  
\LetTrackLangOption{es-PY}{paraguayspanish}

\@tracklang@add@es-PE  
\LetTrackLangOption{es-PE}{peruvianspanish}

\@tracklang@add@es-PR  
\LetTrackLangOption{es-PR}{puertoricospanish}

\@tracklang@add@es-UY  
\LetTrackLangOption{es-UY}{uruguayspanish}

\@tracklang@add@es-VE  
\LetTrackLangOption{es-VE}{venezuelanspanish}

<code>\@tracklang@add@de-CH</code>	<code>\LetTrackLangOption{de-CH}{swissgerman}</code>
<code>\@tracklang@add@fr-CH</code>	<code>\LetTrackLangOption{fr-CH}{swissfrench}</code>
<code>\@tracklang@add@it-CH</code>	<code>\LetTrackLangOption{it-CH}{swissitalian}</code>
<code>\@tracklang@add@rm-CH</code>	<code>\LetTrackLangOption{rm-CH}{swissromansh}</code>
<code>\@tracklang@add@it-VA</code>	<code>\LetTrackLangOption{it-VA}{vatican}</code>
<code>\@tracklang@add@ga-IE</code>	Irish Gaelic in Republic of Ireland. <code>\LetTrackLangOption{ga-IE}{IEirish}</code>
<code>\@tracklang@add@ga-GB</code>	Irish Gaelic in Northern Ireland. <code>\LetTrackLangOption{ga-GB}{GBirish}</code>
<code>\@tracklang@add@en-IE</code>	English spoken in Republic of Ireland. <code>\LetTrackLangOption{en-IE}{IEenglish}</code>
<code>\@tracklang@add@de-AT-1996</code>	<code>\LetTrackLangOption{de-AT-1996}{naustrian}</code>
<code>\@tracklang@add@de-AT</code>	<code>\LetTrackLangOption{de-AT}{austrian}</code>
<code>\@tracklang@add@id-IN</code>	<code>\LetTrackLangOption{id-IN}{bahasa}</code>
<code>\@tracklang@add@ms-MY</code>	<code>\LetTrackLangOption{ms-MY}{malay}</code>
<code>\@tracklang@add@hr-HR</code>	<code>\LetTrackLangOption{hr-HR}{croatia}</code>
<code>\@tracklang@add@de-DE-1996</code>	<code>\LetTrackLangOption{de-DE-1996}{ngermanDE}</code>
<code>\@tracklang@add@de-CH-1996</code>	<code>\LetTrackLangOption{de-CH-1996}{nswissgerman}</code>
<code>\@tracklang@add@hu-HU</code>	<code>\LetTrackLangOption{hu-HU}{hungarian}</code>
<code>\@tracklang@add@gd-GB</code>	<code>\LetTrackLangOption{gd-GB}{GBscottish}</code>
<code>\@tracklang@add@cy-GB</code>	<code>\LetTrackLangOption{cy-GB}{GBwelsh}</code>

## 6.2.8 Conditionals and Loops

`\IfTrackedLanguage` `\IfTrackedLanguage{<language>}{<true part>}{<>false part>}`

```
\long\def\IfTrackedLanguage#1#2#3{%
```

First find out if the language name is empty.

```
\edef\@tracklang@element{#1}%
\ifx\@tracklang@element\empty
```

Language is empty, so do false part.

```
#3%
\else
\expandafter\@tracklang@ifinlist\expandafter{\@tracklang@element}%
\@tracklang@languages
{%
```

In list, so do true part.

```
#2%
}%
{%
```

Not in list, so do false part.

```
#3%
}%
\fi
}
```

`\IfTrackedDialect` `\IfTrackedDialect{<dialect>}{<true part>}{<>false part>}`

```
\long\def\IfTrackedDialect#1#2#3{%
\@tracklang@ifundef{\@tracklang@fromdialect@#1}{#3}{#2}%
}
```

`\IfTrackedIsoCode` `\IfTrackedIsoCode{<code type>}{<code>}{<true part>}{<>false part>}`

```
\long\def\IfTrackedIsoCode#1#2#3#4{%
\@tracklang@ifundef{\@tracklang@#1@isotolang@#2}{#4}{#3}%
}
```

`\IfTrackedLanguageHasIsoCode` `\IfTrackedLanguageHasIsoCode{<code type>}{<language>}{<true part>}{<>false part>}`

```
\long\def\IfTrackedLanguageHasIsoCode#1#2#3#4{%
\@tracklang@ifundef{\@tracklang@#1@isofromlang@#2}{#4}{#3}%
}
```

`\ForEachTrackedLanguage` `\ForEachTrackedLanguage{<cs>}{<body>}`

Iterates through the list of tracked languages. On each iteration  $\langle cs \rangle$  is set to the language tag and  $\langle body \rangle$  is performed.

```
\long\def\ForEachTrackedLanguage#1#2{%
  \@tracklang@for#1:=\@tracklang@languages\do{#2}%
}
```

`\ForEachTrackedDialect` `\ForEachTrackedDialect{ $\langle cs \rangle$ }{ $\langle body \rangle$ }`

Iterates through the list of tracked dialects. On each iteration  $\langle cs \rangle$  is set to the dialect tag and  $\langle body \rangle$  is performed.

```
\long\def\ForEachTrackedDialect#1#2{%
  \@tracklang@for#1:=\@tracklang@dialects\do{#2}%
}
```

`\AnyTrackedLanguages`

```
\long\def\AnyTrackedLanguages#1#2{%
  \ifx\@tracklang@languages\empty
    #2%
  \else
    #1%
  \fi
}
```

`\IfTrackedLanguageFileExists` `\IfTrackedLanguageFileExists{ $\langle dialect \rangle$ }{ $\langle prefix \rangle$ }{ $\langle suffix \rangle$ }{ $\langle true part \rangle$ }{ $\langle false part \rangle$ }`

Determines if the file  $\langle prefix \rangle \langle tag \rangle \langle suffix \rangle$  exists, where  $\langle tag \rangle$  is an ISO code or ISO codes identifying the language. If  $\langle dialect \rangle$  hasn't been identified as a tracked dialect, this just does  $\langle false part \rangle$ , otherwise this first tries with  $\langle tag \rangle$  set to  $\langle dialect \rangle$ , then tries with  $\langle tag \rangle$  set to the root language label for  $\langle dialect \rangle$ , then tries with  $\langle tag \rangle$  set to  $\langle ISO\ 639-1\ code \rangle - \langle ISO\ 3166-1\ code \rangle$ , then tries with  $\langle tag \rangle$  set to  $\langle ISO\ 639-1\ code \rangle$ , then tries with  $\langle tag \rangle$  set to  $\langle ISO\ 639-2\ code \rangle - \langle ISO\ 3166-1\ code \rangle$ , then tries with  $\langle tag \rangle$  set to  $\langle ISO\ 639-2\ code \rangle$ . If the file  $\langle prefix \rangle \langle tag \rangle \langle suffix \rangle$  exists, `\CurrentTrackedTag` is set to  $\langle tag \rangle$  and  $\langle true part \rangle$  is performed, otherwise  $\langle false part \rangle$  is performed.

```
\long\def\IfTrackedLanguageFileExists#1#2#3#4#5{%
```

Initialise.

```
\def\CurrentTrackedTag{}
```

Select this dialect.

```
\SetCurrentTrackedDialect{#1}%
\IfTrackedDialect{#1}%
{%
```

Try just the dialect label.

```
\edef\CurrentTrackedTag{#1}%
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
```

No file found for dialect label, try  $\langle ISO 639-1 \rangle$ - $\langle ISO 3166-1 \rangle$  next.

```
\IfTrackedLanguageHasIsoCode
{639-1}{\CurrentTrackedLanguage}
{%
  \edef\CurrentTrackedIsoCode{%
    \TrackedIsoCodeFromLanguage
      {639-1}{\CurrentTrackedLanguage}}%
  \ifx\CurrentTrackedRegion\empty
```

No region, just try ISO 639-1 code

```
\let\CurrentTrackedTag\CurrentTrackedIsoCode
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
{#4}
{%
```

No region and file for just  $\langle ISO 639-1 \text{ code} \rangle$ . Try ISO 639-2 code. (No check for 639-3 since it has 639-1 code.)

```
\IfTrackedLanguageHasIsoCode
{639-2}{\CurrentTrackedLanguage}
{%
  \edef\CurrentTrackedIsoCode{%
    \TrackedIsoCodeFromLanguage
      {639-2}{\CurrentTrackedLanguage}}%
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
  {#4}%
  {%
```

Try root language.

```
\let\CurrentTrackedTag\CurrentTrackedLanguage
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}{#4}{#5}%
}%
}%
{%
```

No region, no ISO 639-1 code and no ISO 639-2 code. No file found for dialect label, try root language label next.

```
\let\CurrentTrackedTag\CurrentTrackedLanguage
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}{#4}{#5}%
}%
}%
\else
```

Has a region so try  $\langle ISO 639-1 \text{ code} \rangle$ - $\langle region \rangle$

```
\edef\CurrentTrackedTag{%
  \CurrentTrackedIsoCode-\CurrentTrackedRegion}%
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
{#4}
{%
```

Has a region but  $\langle ISO 639-1 \text{ code} \rangle$ - $\langle region \rangle$  not found, so try  $\langle ISO 639-2 \text{ code} \rangle$ - $\langle region \rangle$

```
\IfTrackedLanguageHasIsoCode
{639-2}{\CurrentTrackedLanguage}
{%
  \let\org@currenttrackedisocode\CurrentTrackedIsoCode
  \edef\CurrentTrackedIsoCode{%
    \TrackedIsoCodeFromLanguage
      {639-2}{\CurrentTrackedLanguage}}%
  \edef\CurrentTrackedTag{%
    \CurrentTrackedIsoCode-\CurrentTrackedRegion}%
```

```

\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
```

Has a region but *<ISO 639-1 code>-<region>* not found and *<ISO 639-2 code>-<region>* not found, so try just *<ISO 639-1 code>*

```

\let\CurrentTrackedTag\org@currenttrackedisocode
\let\org@currenttrackedisocode\CurrentTrackedIsoCode
\let\CurrentTrackedIsoCode\CurrentTrackedTag
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
{#4}
{%
```

Try just the ISO 639-2 code.

```

\let\CurrentTrackedIsoCode\org@currenttrackedisocode
\let\CurrentTrackedTag\CurrentTrackedIsoCode
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
```

Try just the region.

```

\let\CurrentTrackedTag\CurrentTrackedRegion
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
```

Try the root language.

```

\let\CurrentTrackedTag\CurrentTrackedLanguage
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}{#4}{#5}%
}%
}%
}%
}%
}%
{%
```

Has a region but *<ISO 639-1 code>-<region>* not found, and no ISO 639-2 code so just try *<ISO 639-1 code>*

```

\let\CurrentTrackedTag\CurrentTrackedIsoCode
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
```

Just try the region

```

\let\CurrentTrackedTag\CurrentTrackedRegion
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
```

Try the root language.

```

\let\CurrentTrackedTag\CurrentTrackedLanguage
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}{#4}{#5}%
}%
}%
}%
\fi
}%
{%
```

No ISO 639-1 code. Try ISO 639-2 code.

```
\IfTrackedLanguageHasIsoCode
{639-2}{\CurrentTrackedLanguage}
{%
  \edef\CurrentTrackedIsoCode{%
    \TrackedIsoCodeFromLanguage
    {639-2}{\CurrentTrackedLanguage}}%
}%
{%
```

No ISO 639-1 code or ISO 639-2 code. Try 639-3 code.

```
\IfTrackedLanguageHasIsoCode
{639-3}{\CurrentTrackedLanguage}
{%
  \edef\CurrentTrackedIsoCode{%
    \TrackedIsoCodeFromLanguage
    {639-3}{\CurrentTrackedLanguage}}%
}%
{%
  \let\CurrentTrackedIsoCode\empty
}%
\ifx\CurrentTrackedIsoCode\empty
```

No ISO 639-1 code or ISO 639-2 code. Try just the region.

```
\ifx\CurrentTrackedRegion\empty
```

No region. Try the root language.

```
\let\CurrentTrackedTag\CurrentTrackedLanguage
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}{#4}{#5}%
\else
```

Try the region.

```
\let\CurrentTrackedTag\CurrentTrackedRegion
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
```

Try the root language.

```
\let\CurrentTrackedTag\CurrentTrackedLanguage
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}{#4}{#5}%
}%
\fi
\else
```

Has ISO 639-2 or 639-3 code.

```
\ifx\CurrentTrackedRegion\empty
```

Has ISO 639-2 or 639-3 code but no region.

```
\let\CurrentTrackedTag\CurrentTrackedIsoCode
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
```

Try the root language.

```
\let\CurrentTrackedTag\CurrentTrackedLanguage
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}{#4}{#5}%
}%
\else
```

Has ISO 639-2 or 639-3 code and a region. Try  $\langle ISO\ 639-2\ or\ 639-3 \rangle - \langle region \rangle$  first.

```
\edef\CurrentTrackedTag{%
  \CurrentTrackedIsoCode-\CurrentTrackedRegion}%
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
```

Has ISO 639-2 or 639-3 code and a region but  $\langle ISO\ 639-2\ or\ 639-3 \rangle - \langle region \rangle$  doesn't exist. Try just  $\langle ISO\ 639-2\ or\ 639-3 \rangle$

```
\let\CurrentTrackedTag\CurrentTrackedIsoCode
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
```

Has ISO 639-2 or 639-3 code and a region but  $\langle ISO\ 639-2\ or\ 639-3 \rangle$  doesn't exist. Try just  $\langle region \rangle$

```
\let\CurrentTrackedTag\CurrentTrackedRegion
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
```

Try the root language.

```
\let\CurrentTrackedTag\CurrentTrackedLanguage
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}{#4}{#5}%
}%
}%
\fi
\fi
}%
}%
{#5}% unknown dialect
}
```

## 6.2.9 Resources

Provide some commands to make it easier for package authors to integrate the package code with tracklang. In the command definition describes below,  $\langle pkgname \rangle$  indicates the initial part of the resource files that follow the naming convention,  $\langle pkgname \rangle - \langle tag \rangle .ldf$ . Typically this will match the base name of the package that uses those resource files, but this isn't compulsory. The argument  $\langle tag \rangle$  is the current tracked tag obtained from `\IfTrackedLanguageFileExists`.

`\TrackLangProvidesResource`

```
\TrackLangProvidesResource{ $\langle tag \rangle$ }[ $\langle version \rangle$ ]
```

If `\ProvidesFile` exists, we can use that, otherwise we need to provide a generic version.

```
\ifx\ProvidesFile\undefined
```

Generic code uses simplistic method to grab the version details in the final optional argument. Since we're not using  $\LaTeX$  we don't have commands like `\@ifnextchar` available.

```
\long\def\TrackLangProvidesResource#1#2{%
  \ifx\TrackLangRequireDialectPrefix\undefined
```



```

        \@tracklang@err{Resources files using
        \string\TrackLangProvidesResource\space
        must be loaded with \string\TrackLangRequireDialect}%
    \fi
    \ifx#2[\relax
        \def\@tracklang@next{%
            \@tracklang@providesresource{\TrackLangRequireDialectPrefix-#1.1df}#2%
        }
    \else
        \expandafter\xdef\csname ver@\TrackLangRequireDialectPrefix
        -#1.1df\endcsname{%
            {%
                \newlinechar='\^^J
                \def\MessageBreak{^^J}%
                \message{^^JFile: \TrackLangRequireDialectPrefix-#1.1df^^J}%
            }%
            \long\def\@tracklang@next{#2}%
        }
    \fi
    \@tracklang@next
}
\def\@tracklang@providesresource#1[#2]{%
\expandafter\xdef\csname ver@#1\endcsname{#2}%
{%
    \newlinechar='\^^J
    \def\MessageBreak{^^J}%
    \message{^^JFile: #1 #2^^J}%
}%
}
\else

```

LaTeX code can simply use `\ProvidesFile`.

```

\def\TrackLangProvidesResource#1{%
    \ifx\TrackLangRequireDialectPrefix\undefined
        \@tracklang@err{Resources files using
        \string\TrackLangProvidesResource\space
        must be loaded with \string\TrackLangRequireDialect}%
    \fi
    \ProvidesFile{\TrackLangRequireDialectPrefix-#1.1df}%
}
\fi

```

`\TrackLangAddToHook` `\TrackLangAddToHook{<code>}{<type>}`

Within the resource files, a check is required for the language hook, where the hook type is given by *<type>*. For example, if *<type>* is captions, the for babel, this is `\captions<dialect>` (dialect obtained through `\CurrentTrackedDialect`) and for polyglossia, this is `\captions<language>` (language obtained through `\CurrentTrackedLanguage`). This command is not permitted outside resource files.

```

\def\TrackLangAddToHook{\noop@TrackLangAddToHook}

```

`\noop@TrackLangAddToHook`

```

\def\noop@TrackLangAddToHook#1#2{%
    \@tracklang@err{\string\TrackLangAddToHook\space
    only permitted within resource files}
}

```

`\@TrackLangAddToHook`

```
\def\@TrackLangAddToHook#1#2{%
babel check first.
\@tracklang@ifundef{#2\CurrentTrackedDialect}%
{%
Does the dialect label have a mapping?
\IfTrackedDialectHasMapping{\CurrentTrackedDialect}%
{%
Try the mapping label next.
\edef\@tracklang@tmp{%
\csname @tracklang@dialectmap@tohook@\CurrentTrackedDialect\endcsname}%
\@tracklang@ifundef{#2\@tracklang@tmp}%
{%
No captions hook. Try polyglossia.
\@tracklang@ifundef{#2\CurrentTrackedLanguage}%
{%
No captions hook. Do the code now.
#1%
}%
{%
\@tracklang@addtohook{#2}{\CurrentTrackedLanguage}{#1}%
}%
}%
{%
\@tracklang@addtohook{#2}{\@tracklang@tmp}{#1}%
}%
}%
{%
polyglossia check next.
\@tracklang@ifundef{#2\CurrentTrackedLanguage}%
{%
No captions hook.
}%
{%
\@tracklang@addtohook{#2}{\CurrentTrackedLanguage}{#1}%
}%
}%
}%
{%
\@tracklang@addtohook{#2}{\CurrentTrackedDialect}{#1}%
}%
Do the code now. (This is needed for cases such as the ngerman which defines \captionsngerman
but calls it immediately rather than at the start of the document.)
#1%
}
```

`\@tracklang@addtohook`

```
\@tracklang@addtohook{<type>}{<label>}{<code>}
```

```
\def\@tracklang@addtohook#1#2#3{%
\expandafter\let\expandafter\@tracklang@hook\csname #1#2\endcsname
```

```

\expandafter
\gdef\csname#1#2\expandafter\endcsname\expandafter{\@tracklang@hook#3}%
}

```

Since the captions hook is the most common, provide a shortcut.

`\TrackLangAddToCaptions` `\TrackLangAddToCaptions{<code>}`

```

\def\TrackLangAddToCaptions#1{\TrackLangAddToHook{#1}{captions}}

```

`\SetTrackedDialectLabelMap` `\SetTrackedDialectLabelMap{<tracklang-label>}{<hook-label>}`

Define a mapping between a tracklang dialect label and the corresponding label used by the language hook. For example, `ngermanDE` is a recognised tracklang dialect label, but the closest babel equivalent is `ngerman`, so `ngermanDE` would need to be mapped to `ngerman` for the language hooks. The arguments are `<tracklang-label>` (the tracklang dialect label) and `<hook-label>` (the babel, polyglossia etc label).

```

\def\SetTrackedDialectLabelMap#1#2{%

```

Store the mapping that can obtain the hook label from the tracklang label (tracklang to hook).

```

\@tracklang@enamedef{\@tracklang@dialectmap@tohook@#1}{#2}%

```

Store the mapping that can obtain the tracklang label from the hook label.

```

\@tracklang@enamedef{\@tracklang@dialectmap@fromhook@#2}{#1}%
}

```

`\IfTrackedDialectHasMapping` `\IfTrackedDialectHasMapping{<tracklang label>}{<true>}{<false>}`

Test if the tracklang dialect label has been assigned a mapping to a language hook.

```

\def\IfTrackedDialectHasMapping#1#2#3{%
\@tracklang@ifundef{\@tracklang@dialectmap@tohook@#1}{#3}{#2}%
}

```

`\IfHookHasMappingFromTrackedDialect` `\IfHookHasMappingFromTrackedDialect{<hook label>}{<true>}{<false>}`

Tests if the language hook label has been assigned a mapping from a tracklang dialect label.

```

\def\IfHookHasMappingFromTrackedDialect#1#2#3{%
\@tracklang@ifundef{\@tracklang@dialectmap@fromhook@#1}{#3}{#2}%
}

```

`\GetTrackedDialectToMapping` `\GetTrackedDialectToMapping{<tracklang label>}`

Gets the mapping for the given tracklang dialect label to a language hook label or the `<label>` itself if no mapping has been defined.

```

\def\GetTrackedDialectToMapping#1{%
  \@tracklang@ifundef{@tracklang@dialectmap@tohook@#1}{#1}%
  {\csname @tracklang@dialectmap@tohook@#1\endcsname}%
}

```

\GetTrackedDialectFromMapping \GetTrackedDialectFromMapping{<language hook>}

Gets the reverse mapping from the given language hook to the tracklang label.

```

\def\GetTrackedDialectFromMapping#1{%
  \@tracklang@ifundef{@tracklang@dialectmap@fromhook@#1}{#1}%
  {\csname @tracklang@dialectmap@fromhook@#1\endcsname}%
}

```

\TrackLangRequireResource \TrackLangRequireResource{<tag>}

```

\def\TrackLangRequireResource{\noop@TrackLangRequireResource}

```

\noop@TrackLangRequireResource Default behaviour outside of resources files: generate an error and ignore arguments.

```

\def\noop@TrackLangRequireResource#1{%
  \@tracklang@err{\string\TrackLangRequireResource\space
  only permitted within resource files}
}

```

\@TrackLangRequireResource Actual behaviour.

```

\def\@TrackLangRequireResource#1{%
  \@tracklang@ifundef{ver@\TrackLangRequireDialectPrefix-#1.ldf}%
  {%
    \@tracklang@ifFileExists{\TrackLangRequireDialectPrefix-#1.ldf}%
    {%
      \input \TrackLangRequireDialectPrefix-#1.ldf
    }%
    {%
      \@tracklang@warn{No ‘\TrackLangRequireDialectPrefix’ support for
      language/region ‘#1’\MessageBreak
      (resource file ‘\TrackLangRequireDialectPrefix-#1.ldf’ not found)}%
    }%
  }%
  {}%
}

```

\TrackLangRequireResourceOrDo \TrackLangRequireResourceOrDo{<tag>}{<resource loaded code>}{<resource already loaded code>}

Like \TrackLangRequireResource but also does *<resource loaded code>* if the resource file is loaded or *<resource already loaded code>* if the resource file has already been loaded.

```

\def\TrackLangRequireResourceOrDo{%
  \noop@TrackLangRequireResourceOrDo
}

```

`\noop@TrackLangRequireResourceOrDo` Default behaviour outside of resources files: generate an error and ignore arguments.

```
\def\noop@TrackLangRequireResourceOrDo#1#2#3{%
  \@tracklang@err{\string\TrackLangRequireResourceOrDo\space
    only permitted within resource files}
}
```

`\@TrackLangRequireResourceOrDo` Actual behaviour.

```
\def\@TrackLangRequireResourceOrDo#1#2#3{%
  \@tracklang@ifundef{ver@\TrackLangRequireDialectPrefix-#1.ldf}%
  {%
    \@tracklang@ifFileExists{\TrackLangRequireDialectPrefix-#1.ldf}%
    {%
      \input \TrackLangRequireDialectPrefix-#1.ldf
      #2%
    }%
    {%
      \@tracklang@warn{No ‘\TrackLangRequireDialectPrefix’ support for
        language/region ‘#1’\MessageBreak
        (resource file ‘\TrackLangRequireDialectPrefix-#1.ldf’ not found)}%
    }%
  }%
  {#3}%
}
```

`\TrackLangRequestResource` `\TrackLangRequestResource{<tag>}{<not found code>}`

Like `\TrackLangRequireResource` but does *<not found code>* if the file doesn't exist.

```
\def\TrackLangRequestResource{\noop@TrackLangRequestResource}
```

`\noop@TrackLangRequestResource` Default behaviour outside of resources files: generate an error and ignore arguments.

```
\def\noop@TrackLangRequestResource#1#2{%
  \@tracklang@err{\string\TrackLangRequestResource\space
    only permitted within resource files}
}
```

`\@TrackLangRequestResource` Actual behaviour.

```
\def\@TrackLangRequestResource#1#2{%
  \@tracklang@ifundef{ver@\TrackLangRequireDialectPrefix-#1.ldf}%
  {%
    \@tracklang@ifFileExists{\TrackLangRequireDialectPrefix-#1.ldf}%
    {%
      \input \TrackLangRequireDialectPrefix-#1.ldf
    }%
    {#2}%
  }%
  {}%
}
```

`\TrackLangRequireDialect` `\TrackLangRequireDialect[<load code>]{<pkgname>}{<dialect>}`

```
\def\TrackLangRequireDialect{\@TrackLangRequireDialect}
```

`\noop@TrackLangRequireDialect` No-op code.

```
\def\noop@TrackLangRequireDialect#1{%
  \ifx[#1\relax
    \def\@tracklang@next{\noop@TrackLangRequireDialect[]}%
  \else
    \def\@tracklang@next{\noop@TrackLangRequireDialect[] {#1}}%
  \fi
  \@tracklang@next
}
\def\noop@TrackLangRequireDialect[#1]#2#3{%
  \@tracklang@err{\string\TrackLangRequireDialect\space
  only permitted within resource files}
}
```

`\@TrackLangRequireDialect` Actual code.

```
\def\@TrackLangRequireDialect#1{%
  \ifx[#1\relax
    \def\@tracklang@next{\@TrackLangRequireDialect[]}%
  \else
    \def\@tracklang@next{%
      \@TrackLangRequireDialect
      [\TrackLangRequireResource{\CurrentTrackedTag}] {#1}}%
    \fi
    \@tracklang@next
}
\def\@TrackLangRequireDialect[#1]#2#3{%
  \def\TrackLangRequireDialectPrefix{#2}%
  \IfTrackedLanguageFileExists{#3}%
  {#2-}% prefix
  {.ldf}% suffix
  {%

```

Enable `\TrackLangRequireResource` etc so that they can only be used in resource files.

```
\let\TrackLangRequireResource\@TrackLangRequireResource
\let\TrackLangRequireResourceOrDo\@TrackLangRequireResourceOrDo
\let\TrackLangRequestResource\@TrackLangRequestResource
```

Disable `\TrackLangRequireDialect` so that it can't be used in resource files.

```
\let\TrackLangRequireDialect\noop@TrackLangRequireDialect
```

Enable `\TrackLangAddToHook`.

```
\let\TrackLangAddToHook\@TrackLangAddToHook
```

Load resource file using the code provided in the first argument.

```
#1%
```

Disable `\TrackLangRequireResource` etc.

```
\let\TrackLangRequireResource\noop@TrackLangRequireResource
\let\TrackLangRequireResourceOrDo\noop@TrackLangRequireResourceOrDo
\let\TrackLangRequestResource\noop@TrackLangRequestResource
```

Enable `\TrackLangRequireDialect`.

```
\let\TrackLangRequireDialect\@TrackLangRequireDialect
```

Disable `\TrackLangAddToHook`.

```
\let\TrackLangAddToHook\noop@TrackLangAddToHook
}%
{%
  \@tracklang@warn{No '#2' support for dialect '#3'}%
}%
}
```

Restore category code for @ if necessary.

```
\@tracklang@restore@at
```

## 6.3 Regions Generic Code (tracklang-region-codes.tex)

This is only loaded if a mapping is required between numeric and alphabetic region codes. (It would slow down the package loading to automatically load if not required.) Since this is loaded on the fly, we need to be careful about spurious spaces.

```
\ifnum\catcode'\@=11\relax
  \def\@tracklang@regions@restore@at{}%
\else
  \expandafter\edef\csname @tracklang@regions@restore@at\endcsname{%
    \noexpand\catcode'\noexpand\@=\number\catcode'\@ \relax
  }%
  \catcode'\@=11\relax
\fi
```

Check if this file has already been loaded:

```
\ifx\TrackLangRegionMap\undefined
\else
  \@tracklang@regions@restore@at
  \expandafter\endinput
\fi
```

Version info.

```
\expandafter\def\csname ver@tracklang-region-codes.tex\endcsname{2016/11/03 v1.3.3
(NLCT) Track Languages Regions}%
```

```
\TrackLangRegionMap \TrackLangRegionMap{\<numeric code>}{\<alpha-2 code>}{\<alpha-3 code>}
```

Define mapping.

```
\def\TrackLangRegionMap#1#2#3{%
  \@tracklang@enamedef{@tracklang@region@numtoalphaii@#1}{#2}%
  \@tracklang@enamedef{@tracklang@region@numtoalphaii@#1}{#3}%
  \@tracklang@enamedef{@tracklang@region@alphaiitonum@#2}{#1}%
  \@tracklang@enamedef{@tracklang@region@alphaiitonum@#3}{#1}%
  \@tracklang@enamedef{@tracklang@region@alphaiitoalphaii@#2}{#3}%
  \@tracklang@enamedef{@tracklang@region@alphaiitoalphaii@#3}{#2}%
}%
```

```
\TrackLangAlphaIIToNumericRegion \TrackLangAlphaIIToNumericRegion{\<alpha-2 code>}
```

```
\def\TrackLangAlphaIIToNumericRegion#1{%
  \@tracklang@nameuse{@tracklang@region@alphaiitonum@#1}%
}%
```

```
\TrackLangNumericToAlphaIIRegion \TrackLangNumericToAlphaIIRegion{\<numeric code>}
```

```

\def\TrackLangNumericToAlphaIIRegion#1{%
  \@tracklang@nameuse{@tracklang@region@numtoalphaii@#1}%
}%

```

\TrackLangIfKnownAlphaIIRegion \TrackLangIfKnownAlphaIIRegion{<alpha-2 code>}{<true>}{<false>}

```

\def\TrackLangIfKnownAlphaIIRegion#1#2#3{%
  \@tracklang@ifundef{@tracklang@region@alphaiitonum@#1}%
  {#3}%
  {#2}%
}%

```

\TrackLangIfKnownNumericRegion \TrackLangIfKnownNumericRegion{<numeric code>}{<true>}{<false>}

```

\def\TrackLangIfKnownNumericRegion#1#2#3{%
  \@tracklang@ifundef{@tracklang@region@numtoalphaii@#1}%
  {#3}%
  {#2}%
}%

```

\TrackLangAlphaIIIToNumericRegion \TrackLangAlphaIIIToNumericRegion{<alpha-3 code>}

```

\def\TrackLangAlphaIIIToNumericRegion#1{%
  \@tracklang@nameuse{@tracklang@region@alphaiiitonum@#1}%
}%

```

\TrackLangNumericToAlphaIIIRegion \TrackLangNumericToAlphaIIIRegion{<numeric code>}

```

\def\TrackLangNumericToAlphaIIIRegion#1{%
  \@tracklang@nameuse{@tracklang@region@numtoalphaiii@#1}%
}%

```

\TrackLangIfKnownAlphaIIIRegion \TrackLangIfKnownAlphaIIIRegion{<alpha-3 code>}{<true>}{<false>}

```

\def\TrackLangIfKnownAlphaIIIRegion#1#2#3{%
  \@tracklang@ifundef{@tracklang@region@alphaiiitonum@#1}%
  {#3}%
  {#2}%
}%

```

Define mappings.

```

\TrackLangRegionMap{004}{AF}{AFG}%
\TrackLangRegionMap{248}{AX}{ALA}%

```



\\TrackLangRegionMap{008}{AL}{ALB}%  
\\TrackLangRegionMap{012}{DZ}{DZA}%  
\\TrackLangRegionMap{016}{AS}{ASM}%  
\\TrackLangRegionMap{020}{AD}{AND}%  
\\TrackLangRegionMap{024}{AO}{AGO}%  
\\TrackLangRegionMap{660}{AI}{AIA}%  
\\TrackLangRegionMap{010}{AQ}{ATA}%  
\\TrackLangRegionMap{028}{AG}{ATG}%  
\\TrackLangRegionMap{032}{AR}{ARG}%  
\\TrackLangRegionMap{051}{AM}{ARM}%  
\\TrackLangRegionMap{533}{AW}{ABW}%  
\\TrackLangRegionMap{036}{AU}{AUS}%  
\\TrackLangRegionMap{040}{AT}{AUT}%  
\\TrackLangRegionMap{031}{AZ}{AZE}%  
\\TrackLangRegionMap{044}{BS}{BHS}%  
\\TrackLangRegionMap{048}{BH}{BHR}%  
\\TrackLangRegionMap{050}{BD}{BGD}%  
\\TrackLangRegionMap{052}{BB}{BRB}%  
\\TrackLangRegionMap{112}{BY}{BLR}%  
\\TrackLangRegionMap{056}{BE}{BEL}%  
\\TrackLangRegionMap{084}{BZ}{BLZ}%  
\\TrackLangRegionMap{204}{BJ}{BEN}%  
\\TrackLangRegionMap{060}{BM}{BMU}%  
\\TrackLangRegionMap{064}{BT}{BTN}%  
\\TrackLangRegionMap{068}{BO}{BOL}%  
\\TrackLangRegionMap{535}{BQ}{BES}%  
\\TrackLangRegionMap{070}{BA}{BIH}%  
\\TrackLangRegionMap{072}{BW}{BWA}%  
\\TrackLangRegionMap{074}{BV}{BVT}%  
\\TrackLangRegionMap{076}{BR}{BRA}%  
\\TrackLangRegionMap{086}{IO}{IOT}%  
\\TrackLangRegionMap{096}{BN}{BRN}%  
\\TrackLangRegionMap{100}{BG}{BGR}%  
\\TrackLangRegionMap{854}{BF}{BFA}%  
\\TrackLangRegionMap{108}{BI}{BDI}%  
\\TrackLangRegionMap{132}{CV}{CPV}%  
\\TrackLangRegionMap{116}{KH}{KHM}%  
\\TrackLangRegionMap{120}{CM}{CMR}%  
\\TrackLangRegionMap{124}{CA}{CAN}%  
\\TrackLangRegionMap{136}{KY}{CYM}%  
\\TrackLangRegionMap{140}{CF}{CAF}%  
\\TrackLangRegionMap{148}{TD}{TCD}%  
\\TrackLangRegionMap{152}{CL}{CHL}%  
\\TrackLangRegionMap{156}{CN}{CHN}%  
\\TrackLangRegionMap{162}{CX}{CXR}%  
\\TrackLangRegionMap{166}{CC}{CCK}%  
\\TrackLangRegionMap{170}{CO}{COL}%  
\\TrackLangRegionMap{174}{KM}{COM}%  
\\TrackLangRegionMap{180}{CD}{COD}%  
\\TrackLangRegionMap{178}{CG}{COG}%  
\\TrackLangRegionMap{184}{CK}{COK}%  
\\TrackLangRegionMap{188}{CR}{CRI}%  
\\TrackLangRegionMap{384}{CI}{CIV}%  
\\TrackLangRegionMap{191}{HR}{HRV}%  
\\TrackLangRegionMap{192}{CU}{CUB}%  
\\TrackLangRegionMap{531}{CW}{CUW}%  
\\TrackLangRegionMap{196}{CY}{CYP}%  
\\TrackLangRegionMap{203}{CZ}{CZE}%  
\\TrackLangRegionMap{208}{DK}{DNK}%  
\\TrackLangRegionMap{262}{DJ}{DJI}%  
\\TrackLangRegionMap{212}{DM}{DMA}%  
\\TrackLangRegionMap{214}{DO}{DOM}%

\\TrackLangRegionMap{218}{EC}{ECU}%  
\\TrackLangRegionMap{818}{EG}{EGY}%  
\\TrackLangRegionMap{222}{SV}{SLV}%  
\\TrackLangRegionMap{226}{GQ}{GNQ}%  
\\TrackLangRegionMap{232}{ER}{ERI}%  
\\TrackLangRegionMap{233}{EE}{EST}%  
\\TrackLangRegionMap{231}{ET}{ETH}%  
\\TrackLangRegionMap{238}{FK}{FLK}%  
\\TrackLangRegionMap{234}{FO}{FRO}%  
\\TrackLangRegionMap{242}{FJ}{FJI}%  
\\TrackLangRegionMap{246}{FI}{FIN}%  
\\TrackLangRegionMap{250}{FR}{FRA}%  
\\TrackLangRegionMap{254}{GF}{GUF}%  
\\TrackLangRegionMap{258}{PF}{PYF}%  
\\TrackLangRegionMap{260}{TF}{ATF}%  
\\TrackLangRegionMap{266}{GA}{GAB}%  
\\TrackLangRegionMap{270}{GM}{GMB}%  
\\TrackLangRegionMap{268}{GE}{GEO}%  
\\TrackLangRegionMap{276}{DE}{DEU}%  
\\TrackLangRegionMap{288}{GH}{GHA}%  
\\TrackLangRegionMap{292}{GI}{GIB}%  
\\TrackLangRegionMap{300}{GR}{GRC}%  
\\TrackLangRegionMap{304}{GL}{GRL}%  
\\TrackLangRegionMap{308}{GD}{GRD}%  
\\TrackLangRegionMap{312}{GP}{GLP}%  
\\TrackLangRegionMap{316}{GU}{GUM}%  
\\TrackLangRegionMap{320}{GT}{GTM}%  
\\TrackLangRegionMap{831}{GG}{GGY}%  
\\TrackLangRegionMap{324}{GN}{GIN}%  
\\TrackLangRegionMap{624}{GW}{GNB}%  
\\TrackLangRegionMap{328}{GY}{GUY}%  
\\TrackLangRegionMap{332}{HT}{HTI}%  
\\TrackLangRegionMap{334}{HM}{HMD}%  
\\TrackLangRegionMap{336}{VA}{VAT}%  
\\TrackLangRegionMap{340}{HN}{HND}%  
\\TrackLangRegionMap{344}{HK}{HKG}%  
\\TrackLangRegionMap{348}{HU}{HUN}%  
\\TrackLangRegionMap{352}{IS}{ISL}%  
\\TrackLangRegionMap{356}{IN}{IND}%  
\\TrackLangRegionMap{360}{ID}{IDN}%  
\\TrackLangRegionMap{364}{IR}{IRN}%  
\\TrackLangRegionMap{368}{IQ}{IRQ}%  
\\TrackLangRegionMap{372}{IE}{IRL}%  
\\TrackLangRegionMap{833}{IM}{IMN}%  
\\TrackLangRegionMap{376}{IL}{ISR}%  
\\TrackLangRegionMap{380}{IT}{ITA}%  
\\TrackLangRegionMap{388}{JM}{JAM}%  
\\TrackLangRegionMap{392}{JP}{JPN}%  
\\TrackLangRegionMap{832}{JE}{JEY}%  
\\TrackLangRegionMap{400}{JO}{JOR}%  
\\TrackLangRegionMap{398}{KZ}{KAZ}%  
\\TrackLangRegionMap{404}{KE}{KEN}%  
\\TrackLangRegionMap{296}{KI}{KIR}%  
\\TrackLangRegionMap{408}{KP}{PRK}%  
\\TrackLangRegionMap{410}{KR}{KOR}%  
\\TrackLangRegionMap{414}{KW}{KWT}%  
\\TrackLangRegionMap{417}{KG}{KGZ}%  
\\TrackLangRegionMap{418}{LA}{LAO}%  
\\TrackLangRegionMap{428}{LV}{LVA}%  
\\TrackLangRegionMap{422}{LB}{LBN}%  
\\TrackLangRegionMap{426}{LS}{LSO}%  
\\TrackLangRegionMap{430}{LR}{LBR}%

\\TrackLangRegionMap{434}{LY}{LBY}%  
\\TrackLangRegionMap{438}{LI}{LIE}%  
\\TrackLangRegionMap{440}{LT}{LTU}%  
\\TrackLangRegionMap{442}{LU}{LUX}%  
\\TrackLangRegionMap{446}{MO}{MAC}%  
\\TrackLangRegionMap{807}{MK}{MKD}%  
\\TrackLangRegionMap{450}{MG}{MDG}%  
\\TrackLangRegionMap{454}{MW}{MWI}%  
\\TrackLangRegionMap{458}{MY}{MYS}%  
\\TrackLangRegionMap{462}{MV}{MDV}%  
\\TrackLangRegionMap{466}{ML}{MLI}%  
\\TrackLangRegionMap{470}{MT}{MLT}%  
\\TrackLangRegionMap{584}{MH}{MHL}%  
\\TrackLangRegionMap{474}{MQ}{MTQ}%  
\\TrackLangRegionMap{478}{MR}{MRT}%  
\\TrackLangRegionMap{480}{MU}{MUS}%  
\\TrackLangRegionMap{175}{YT}{MYT}%  
\\TrackLangRegionMap{484}{MX}{MEX}%  
\\TrackLangRegionMap{583}{FM}{FSM}%  
\\TrackLangRegionMap{498}{MD}{MDA}%  
\\TrackLangRegionMap{492}{MC}{MCO}%  
\\TrackLangRegionMap{496}{MN}{MNG}%  
\\TrackLangRegionMap{499}{ME}{MNE}%  
\\TrackLangRegionMap{500}{MS}{MSR}%  
\\TrackLangRegionMap{504}{MA}{MAR}%  
\\TrackLangRegionMap{508}{MZ}{MOZ}%  
\\TrackLangRegionMap{104}{MM}{MMR}%  
\\TrackLangRegionMap{516}{NA}{NAM}%  
\\TrackLangRegionMap{520}{NR}{NRU}%  
\\TrackLangRegionMap{524}{NP}{NPL}%  
\\TrackLangRegionMap{528}{NL}{NLD}%  
\\TrackLangRegionMap{540}{NC}{NCL}%  
\\TrackLangRegionMap{554}{NZ}{NZL}%  
\\TrackLangRegionMap{558}{NI}{NIC}%  
\\TrackLangRegionMap{562}{NE}{NER}%  
\\TrackLangRegionMap{566}{NG}{NGA}%  
\\TrackLangRegionMap{570}{NU}{NIU}%  
\\TrackLangRegionMap{574}{NF}{NFK}%  
\\TrackLangRegionMap{580}{MP}{MNP}%  
\\TrackLangRegionMap{578}{NO}{NOR}%  
\\TrackLangRegionMap{512}{OM}{OMN}%  
\\TrackLangRegionMap{586}{PK}{PAK}%  
\\TrackLangRegionMap{585}{PW}{PLW}%  
\\TrackLangRegionMap{275}{PS}{PSE}%  
\\TrackLangRegionMap{591}{PA}{PAN}%  
\\TrackLangRegionMap{598}{PG}{PNG}%  
\\TrackLangRegionMap{600}{PY}{PRY}%  
\\TrackLangRegionMap{604}{PE}{PER}%  
\\TrackLangRegionMap{608}{PH}{PHL}%  
\\TrackLangRegionMap{612}{PN}{PCN}%  
\\TrackLangRegionMap{616}{PL}{POL}%  
\\TrackLangRegionMap{620}{PT}{PRT}%  
\\TrackLangRegionMap{630}{PR}{PRI}%  
\\TrackLangRegionMap{634}{QA}{QAT}%  
\\TrackLangRegionMap{638}{RE}{REU}%  
\\TrackLangRegionMap{642}{RO}{ROU}%  
\\TrackLangRegionMap{643}{RU}{RUS}%  
\\TrackLangRegionMap{646}{RW}{RWA}%  
\\TrackLangRegionMap{652}{BL}{BLM}%  
\\TrackLangRegionMap{654}{SH}{SHN}%  
\\TrackLangRegionMap{659}{KN}{KNA}%  
\\TrackLangRegionMap{662}{LC}{LCA}%

\\TrackLangRegionMap{663}{MF}{MAF}%  
\\TrackLangRegionMap{666}{PM}{SPM}%  
\\TrackLangRegionMap{670}{VC}{VCT}%  
\\TrackLangRegionMap{882}{WS}{WSM}%  
\\TrackLangRegionMap{674}{SM}{SMR}%  
\\TrackLangRegionMap{678}{ST}{STP}%  
\\TrackLangRegionMap{682}{SA}{SAU}%  
\\TrackLangRegionMap{686}{SN}{SEN}%  
\\TrackLangRegionMap{688}{RS}{SRB}%  
\\TrackLangRegionMap{690}{SC}{SYC}%  
\\TrackLangRegionMap{694}{SL}{SLE}%  
\\TrackLangRegionMap{702}{SG}{SGP}%  
\\TrackLangRegionMap{534}{SX}{SXM}%  
\\TrackLangRegionMap{703}{SK}{SVK}%  
\\TrackLangRegionMap{705}{SI}{SVN}%  
\\TrackLangRegionMap{090}{SB}{SLB}%  
\\TrackLangRegionMap{706}{SO}{SOM}%  
\\TrackLangRegionMap{710}{ZA}{ZAF}%  
\\TrackLangRegionMap{239}{GS}{SGS}%  
\\TrackLangRegionMap{728}{SS}{SSD}%  
\\TrackLangRegionMap{724}{ES}{ESP}%  
\\TrackLangRegionMap{144}{LK}{LKA}%  
\\TrackLangRegionMap{729}{SD}{SDN}%  
\\TrackLangRegionMap{740}{SR}{SUR}%  
\\TrackLangRegionMap{744}{SJ}{SJM}%  
\\TrackLangRegionMap{748}{SZ}{SWZ}%  
\\TrackLangRegionMap{752}{SE}{SWE}%  
\\TrackLangRegionMap{756}{CH}{CHE}%  
\\TrackLangRegionMap{760}{SY}{SYR}%  
\\TrackLangRegionMap{158}{TW}{TWN}%  
\\TrackLangRegionMap{762}{TJ}{TJK}%  
\\TrackLangRegionMap{834}{TZ}{TZA}%  
\\TrackLangRegionMap{764}{TH}{THA}%  
\\TrackLangRegionMap{626}{TL}{TLS}%  
\\TrackLangRegionMap{768}{TG}{TGO}%  
\\TrackLangRegionMap{772}{TK}{TKL}%  
\\TrackLangRegionMap{776}{TO}{TON}%  
\\TrackLangRegionMap{780}{TT}{TTO}%  
\\TrackLangRegionMap{788}{TN}{TUN}%  
\\TrackLangRegionMap{792}{TR}{TUR}%  
\\TrackLangRegionMap{795}{TM}{TKM}%  
\\TrackLangRegionMap{796}{TC}{TCA}%  
\\TrackLangRegionMap{798}{TV}{TUV}%  
\\TrackLangRegionMap{800}{UG}{UGA}%  
\\TrackLangRegionMap{804}{UA}{UKR}%  
\\TrackLangRegionMap{784}{AE}{ARE}%  
\\TrackLangRegionMap{826}{GB}{GBR}%  
\\TrackLangRegionMap{581}{UM}{UMI}%  
\\TrackLangRegionMap{840}{US}{USA}%  
\\TrackLangRegionMap{858}{UY}{URY}%  
\\TrackLangRegionMap{860}{UZ}{UZB}%  
\\TrackLangRegionMap{548}{VU}{VUT}%  
\\TrackLangRegionMap{862}{VE}{VEN}%  
\\TrackLangRegionMap{704}{VN}{VNM}%  
\\TrackLangRegionMap{092}{VG}{VGB}%  
\\TrackLangRegionMap{850}{VI}{VIR}%  
\\TrackLangRegionMap{876}{WF}{WLF}%  
\\TrackLangRegionMap{732}{EH}{ESH}%  
\\TrackLangRegionMap{887}{YE}{YEM}%  
\\TrackLangRegionMap{894}{ZM}{ZMB}%  
\\TrackLangRegionMap{716}{ZW}{ZWE}%

Restore category code of @.  
`\@tracklang@regions@restore@at`

## 6.4 ISO 15924 Scripts L<sup>A</sup>T<sub>E</sub>X Package (tracklang-scripts.sty)

This is just a L<sup>A</sup>T<sub>E</sub>X package wrapper for the generic code in tracklang-scripts.tex.

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{tracklang-scripts}[2016/11/03 v1.3.3 (NLCT) Track
Language Scripts (LaTeX)]
\RequirePackage{tracklang}
\input{tracklang-scripts}
```

## 6.5 ISO 15924 Scripts Generic Code (tracklang-scripts.tex)

Provides information about ISO 15924 scripts. Not automatically loaded.

```
\ifnum\catcode'\@=11\relax
\def\@tracklang@scripts@restore@at{}%
\else
\expandafter\edef\csname @tracklang@scripts@restore@at\endcsname{%
\noexpand\catcode'\noexpand\@=\number\catcode'\@}\relax
}%
\catcode'\@=11\relax
\fi
```

Check if this file has already been loaded:

```
\ifx\TrackLangScriptMap\undefined
\else
\@tracklang@scripts@restore@at
\expandafter\endinput
\fi
```

Version info.

```
\expandafter\def\csname ver@tracklang-scripts.tex\endcsname{2016/11/03 v1.3.3
(NLCT) Track Languages Scripts (Generic)}%
```

```
\TrackLangScriptsMap \TrackLangScriptMap{<letter code>}{<number>}{<name>}{<direction>}
{<parent>}
```

Define mapping. To avoid problems with encodings, only use ASCII characters in the arguments. The first argument is the four-letter ISO 15924 code. The second argument is the numeric code. The third argument is just intended for informational purposes. The fourth argument indicates the direction. This may be LR (left-to-right), RL (right-to-left), TB (top-to-bottom), varies or inherited. The *<parent>* argument is for the parent writing system, which may be left blank. (Currently, this is blank for all the mappings provided here, but the syntax has five arguments in case of future development.)

```
\def\TrackLangScriptMap#1#2#3#4#5{%
```

This user command is provided to make it easier to test the script using `\ifx`.

```
\@tracklang@enamedef{TrackLangScript#1}{#1}%
\@tracklang@enamedef{@tracklang@script@numtoalpha@#2}{#1}%
\@tracklang@enamedef{@tracklang@script@alphatonum@#1}{#2}%
\@tracklang@enamedef{@tracklang@script@alphatoname@#1}{#3}%
\@tracklang@enamedef{@tracklang@script@alphatodir@#1}{#4}%
\ifx\relax#5\relax
\else
\@tracklang@enamedef{@tracklang@script@parent@#1}{#5}%
\fi
}
```

`\TrackLangScriptAlphaToNumeric`

```
\TrackLangScriptAlphaToNumeric{<alpha code>}
```

```
\def\TrackLangScriptAlphaToNumeric#1{%
\@tracklang@nameuse{@tracklang@script@alphatonum@#1}%
}%
```

`\TrackLangScriptIfKnownAlpha`

```
\TrackLangScriptIfKnownAlpha{<alpha code>}{<true>}{<false>}
```

```
\def\TrackLangScriptIfKnownAlpha#1#2#3{%
\@tracklang@ifundef{@tracklang@script@alphatonum@#1}%
{#3}%
{#2}%
}%
```

`\TrackLangScriptNumericToAlpha`

```
\TrackLangScriptNumericToAlpha{<numeric code>}
```

```
\def\TrackLangScriptNumericToAlpha#1{%
\@tracklang@nameuse{@tracklang@script@numtoalpha@#1}%
}%
```

`\TrackLangScriptIfKnownNumeric`

```
\TrackLangScriptIfKnownNumeric{<numeric code>}{<true>}{<false>}
```

```
\def\TrackLangScriptIfKnownNumeric#1#2#3{%
\@tracklang@ifundef{@tracklang@script@numtoalpha@#1}%
{#3}%
{#2}%
}%
```

`\TrackLangScriptAlphaToName`

```
\TrackLangScriptAlphaToName{<alpha code>}
```

```
\def\TrackLangScriptAlphaToName#1{%
\@tracklang@nameuse{@tracklang@script@alphatoname@#1}%
}%
```



```

\TrackLangScriptMap{Brai}{570}{Braille}{LR}{}
\TrackLangScriptMap{Bugi}{367}{Buginese}{LR}{}
\TrackLangScriptMap{Buhd}{372}{Buhid}{LR}{}
\TrackLangScriptMap{Cakm}{349}{Chakma}{LR}{}
\TrackLangScriptMap{Cans}{440}{Unified Canadian Aboriginal Syllabics}{LR}{}
\TrackLangScriptMap{Cari}{201}{Carian}{LR}{}
\TrackLangScriptMap{Cham}{358}{Cham}{LR}{}
\TrackLangScriptMap{Cher}{445}{Cherokee}{LR}{}
\TrackLangScriptMap{Cirt}{291}{Cirth}{varies}{}
\TrackLangScriptMap{Copt}{204}{Coptic}{LR}{}
\TrackLangScriptMap{Cprt}{403}{Cypriot}{RL}{}
\TrackLangScriptMap{Cyr1}{220}{Cyrillic}{LR}{}
\TrackLangScriptMap{CyrS}{221}{Cyrillic (Old Church Slavonic}{
variant)}}{varies}{}
\TrackLangScriptMap{Deva}{315}{Devanagari (Nagari)}}{LR}{}
\TrackLangScriptMap{Dsrt}{250}{Deseret (Mormon)}}{LR}{}
\TrackLangScriptMap{Dupl}{755}{Duployan shorthand, Duployan}{
stenography}}{LR}{}
\TrackLangScriptMap{Egyd}{070}{Egyptian demotic}{RL}{}
\TrackLangScriptMap{Egyh}{060}{Egyptian hieratic}{RL}{}
\TrackLangScriptMap{Egyp}{050}{Egyptian hieroglyphs}{LR}{}
\TrackLangScriptMap{Elba}{226}{Elbasan}{LR}{}
\TrackLangScriptMap{Ethi}{430}{Ethiopic (Ge'ez)}}{LR}{}
\TrackLangScriptMap{Geok}{241}{Khutsuri (Asomtavruli and}{
Nuskhuri)}}{LR}{}
\TrackLangScriptMap{Geor}{240}{Georgian (Mkhedruli)}}{LR}{}
\TrackLangScriptMap{Glag}{225}{Glagolitic}{LR}{}
\TrackLangScriptMap{Goth}{206}{Gothic}{LR}{}
\TrackLangScriptMap{Gran}{343}{Grantha}{LR}{}
\TrackLangScriptMap{Grek}{200}{Greek}{LR}{}
\TrackLangScriptMap{Gujr}{320}{Gujarati}{LR}{}
\TrackLangScriptMap{Guru}{310}{Gurmukhi}{LR}{}
\TrackLangScriptMap{Hanb}{503}{Han with Bopomofo (alias for Han +}{
Bopomofo)}}{LR}{}
\TrackLangScriptMap{Hang}{286}{Hangul}{LR}{}
\TrackLangScriptMap{Hani}{500}{Han (Hanzi, Kanji, Hanja)}}{LR}{}
\TrackLangScriptMap{Hano}{371}{Hanunoo}{LR}{}
\TrackLangScriptMap{Hans}{501}{Han (Simplified variant)}}{varies}{}
\TrackLangScriptMap{Hant}{502}{Han (Traditional variant)}}{varies}{}
\TrackLangScriptMap{Hatr}{127}{Hatran}{RL}{}
\TrackLangScriptMap{Hebr}{125}{Hebrew}{RL}{}
\TrackLangScriptMap{Hira}{410}{Hiragana}{LR}{}
\TrackLangScriptMap{Hluw}{080}{Anatolian Hieroglyphs (Luwian}{
Hieroglyphs, Hittite Hieroglyphs)}}{LR}{}
\TrackLangScriptMap{Hmng}{450}{Pahawh Hmong}}{LR}{}
\TrackLangScriptMap{Hrkt}{412}{Japanese syllabaries (alias for}{
Hiragana + Katakana)}}{varies}{}
\TrackLangScriptMap{Hung}{176}{Old Hungarian (Hungarian Runic)}}{RL}{}
\TrackLangScriptMap{Inds}{610}{Indus (Harappan)}}{RL}{}
\TrackLangScriptMap{Ital}{210}{Old Italic (Etruscan, Oscan, etc.))}{LR}{}
\TrackLangScriptMap{Jamo}{284}{Jamo (alias for Jamo subset of}{
Hangul)}}{LR}{}
\TrackLangScriptMap{Java}{361}{Javanese}{LR}{}
\TrackLangScriptMap{Jpan}{413}{Japanese (alias for Han + Hiragana +}{
Katakana)}}{varies}{}
\TrackLangScriptMap{Jurc}{510}{Jurchen}{LR}{}
\TrackLangScriptMap{Kali}{357}{Kayah Li}{LR}{}
\TrackLangScriptMap{Kana}{411}{Katakana}{LR}{}
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