The **unitipa** package

निरंजन

Version 0.4 — 2021/10/20

ział https://ctan.org/pkg/unitipa
ʆ https://gitlab.com/niruvt/unitipa

This package is not maintained anymore and it has been removed from the TeX-distributions as the package uses methods for converting rich Unicode input to poor T3 encoding for getting TIPA typefaces when this can actually be better done using a Unicode font (i.e. CMU-Serif). I tested the IPA characters with the Latin Modern font to find them absent in it, but mistakenly believed it to be CMU-Serif. For comparison see CMU-Serif.tex and its output. After rigorous testing I found out that only 4 characters are in different shape in CMU-Serif. Those differences are also not very significant. Hence I have decided to take this package back and let users use the better and the recommended Unicode-method. My sincere apologies for releasing a bad package in the community. The source code is still available as an obsolete package on CTAN and an archived repository on GitLab for backward compatibility purpose as well as for studying \LaTeX code for enthusiastic programmers.
1 Implementation

\ProvidesPackage{unitipa}[2021/04/03 v0.3]
TIPA typefaces with unicode characters
\RequirePackage{tipa}

Provide package with its basic information and load package tipa.
\RequirePackage{newunicodechar}
\RequirePackage{fontspec}
\RequirePackage{pgfkeys}
\pgfkeys{%
  unitipa/.is family, unitipa/.cd,%
  ipafont/.code={\setfontfamily{ipa}{#1}},%
  ipafont=DoulosSIL%
}%
\DeclareTextFontCommand{\ipatext}{\ipa}
\def\unitipa@ipafont#1{\pgfkeys{unitipa/.cd,#1}}
\DeclareOption*{\expandafter\unitipa@ipafont\expandafter{\CurrentOption}}

Option ipafont provided using pgfkeys.
\newif\ifnodiacritics
\nodiacriticsfalse
\DeclareOption{nodiacritics}{\nodiacriticstrue}
\ProcessOptions\relax
\ifnodiacritics
\else
\RequirePackage{iftex}
\RequirePackage{luacode}
\RequireLuaTeX
%% Dependent diacritic marks
\begin{luacode}
function voiceless ( s )
  s = unicode.utf8.gsub ( s , '(%a)�', '\textsubring{%1}' )
  return s
end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer", voiceless, "voiceless")}
\begin{luacode}
function voiced ( s )
  s = unicode.utf8.gsub ( s , '(%a)�', '\textsubwedge{%1}' )
  return s
end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer", voiced, "voiced")}
\begin{luacode}
function morerounded ( s )
  s = unicode.utf8.gsub ( s , '(%a)�', '\textsubrhalfring{%1}' )
  return s
end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer", morerounded, "morerounded")}
function lessrounded (s)
  s = unicode.utf8.gsub(s, '%a\u00C0', '\textsublhalfring{%1}')
  return s
end

function advanced (s)
  s = unicode.utf8.gsub(s, '%a\u00C0', '\textsubplus{%1}')
  return s
end

function retracted (s)
  s = unicode.utf8.gsub(s, '%a\u00C0', '\textsubbar{%1}')
  return s
end

function midcentralized (s)
  s = unicode.utf8.gsub(s, '%a\u00C0', '\textovercross{%1}')
  return s
end

function syllabic (s)
  s = unicode.utf8.gsub(s, '%a\u00C0', '\textsyllabic{%1}')
  return s
end

function nonsyllabic (s)
  s = unicode.utf8.gsub(s, '%a\u00C0', '\textsubarch{%1}')
  return s
end

function breathyvoiced (s)
  s = unicode.utf8.gsub(s, '%a\u00C0', '\textsubumlaut{%1}')
  return s
end
\directlua{luatexbase.add_to_callback("process_input_buffer", 
  breathyvoiced, "breathyvoiced")}
\begin{luacode}
  function lingual ( s )
    s = unicode.utf8.gsub ( s , '(%a)', '\textseagull{%1}' )
    return s
  end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer", 
  lingual, "lingual")}
\begin{luacode}
  function velarized ( s )
    s = unicode.utf8.gsub ( s , '(%a)', '\textsuperimposetilde{%1}' )
    return s
  end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer", 
  velarized, "velarized")}
\begin{luacode}
  function raised ( s )
    s = unicode.utf8.gsub ( s , '(%a)', '\textadvancing{%1}' )
    return s
  end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer", 
  raised, "raised")}
\begin{luacode}
  function lowered ( s )
    s = unicode.utf8.gsub ( s , '(%a)', '\textlowering{%1}' )
    return s
  end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer", 
  lowered, "lowered")}
\begin{luacode}
  function advancedtr ( s )
    s = unicode.utf8.gsub ( s , '(%a)', '\textadvanced{%1}' )
    return s
  end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer", 
  advancedtr, "advancedtr")}
\begin{luacode}
  function retractedtr ( s )
    s = unicode.utf8.gsub ( s , '(%a)', '\textretracted{%1}' )
    return s
  end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer", 
  retractedtr, "retractedtr")}
\begin{luacode}
  function dental ( s )
    s = unicode.utf8.gsub ( s , '(%a)', '\textdental{%1}' )
    return s
  end
\end{luacode}
s = unicode.utf8.gsub ( s , '(%a)\ ', '\\textsubbridge{%1}' )
return s
end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer",
dental, "dental")}
\begin{luacode}
function apical ( s )
  s = unicode.utf8.gsub ( s , '(%a)\ ', '\\textinvsubbridge{%1}' )
  return s
end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer",
apical, "apical")}
\begin{luacode}
function laminal ( s )
  s = unicode.utf8.gsub ( s , '(%a)\ ', '\\textsubsquare{%1}' )
  return s
end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer",
laminal, "laminal")}
\begin{luacode}
function unaudible ( s )
  s = unicode.utf8.gsub ( s , '(%a)\ ', '%1\textcorner' )
  return s
end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer",
unaudible, "unaudible")}
% Tie bars
\begin{luacode}
function tiebarup ( s )
  s = unicode.utf8.gsub ( s , '(%a) (\%)', '\\texttoptiebar{%1%2}' )
  return s
end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer",
tiebarup, "tiebarup")}
\begin{luacode}
function tiebardown ( s )
  s = unicode.utf8.gsub ( s , '(%a) (\%)', '\\textbottomtiebar{%1%2}' )
  return s
end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer",
tiebardown, "tiebardown")}
\begin{luacode}
function risefall ( s )
  s = unicode.utf8.gsub ( s , '(%a)\ ', '\\textrisefall{%1}' )
  return s
end
\end{luacode}
\directlua{luatexbase.add_to_callback("process_input_buffer",
risefall, "risefall")}
\begin{luacode}
  function rising ( s )
    s = \text{unicode=utf8.gsub}( s , '[a-z]' , '\\texthighrise{%1}' )
    return s
  end
\end{luacode}
\directlua{\text{luatexbase.add_to_callback}( "process_input_buffer" , rising , "rising")}

\begin{luacode}
  function falling ( s )
    s = \text{unicode=utf8.gsub}( s , '[a-z]' , '\\textlowrise{%1}' )
    return s
  end
\end{luacode}
\directlua{\text{luatexbase.add_to_callback}( "process_input_buffer" , falling , "falling")}

Option \texttt{nodiaccritics} provided for using the package without LuaLaTeX. Enabling this option won't print any diacritics. Help from Samcarter and Mico Loretan on different platforms\textsuperscript{1} gave a right direction to this code.

% Pulmonic Consonants
% Plosives
\newunicodechar{\texttait}{\texttait}
\newunicodechar{\texttaild}{\texttaild}
\newunicodechar{\textbardotlessj}{\textbardotlessj}
\newunicodechar{\textscg}{\textscg}
\newunicodechar{\textglotstop}{\textglotstop}
% Nasals
\newunicodechar{\textltailm}{\textltailm}
\newunicodechar{\textltailn}{\textltailn}
\newunicodechar{\textltailn}{\textltailn}% Added in v0.2
\newunicodechar{\textscn}{\textscn}
% Trills
\newunicodechar{\textscb}{\textscb}
\newunicodechar{\textscr}{\textscr}
% Taps or flaps
\newunicodechar{\textfishhookr}{\textfishhookr}
\newunicodechar{\texttaitl}{\texttaitl}
% Fricatives
\newunicodechar{\textphi}{\textphi}
\newunicodechar{\textbeta}{\textbeta}
\newunicodechar{\texttheta}{\texttheta}
\newunicodechar{\textesh}{\textesh}
\newunicodechar{\textyogh}{\textyogh}
\newunicodechar{\textctj}{\textctj}
\newunicodechar{\textgamma}{\textgamma}
\newunicodechar{\textchi}{\textchi}
\newunicodechar{\textinvscr}{\textinvscr}

\textsuperscript{1}Samcarter's answer on TopAnswer & Mico Loretan's answer on TeX.SE.
%% Lateral fricatives
\newunicodechar{��}{\textrevglotstop}
\newunicodechar{��}{\texthth}
%% Approximants
\newunicodechar{��}{\textbeltl}
\newunicodechar{��}{\textlyoghlig}
%% Lateral approximants
\newunicodechar{��}{\texttturnar}
\newunicodechar{��}{\texttturnmrleg}
%% Affricates
\newunicodechar{��}{\textteshlig}
\newunicodechar{��}{\textdyoghlig}
\newunicodechar{��}{\texttslig}
\newunicodechar{��}{\textdzlig}
%% Vowels
%% Close
\newunicodechar{��}{\textbari}
\newunicodechar{��}{\textbaru}
\newunicodechar{��}{\textturnm}
%% Near-close
\newunicodechar{��}{\textsci}
\newunicodechar{��}{\textscy}
\newunicodechar{��}{\textupsilon}
%% Close-mid
\newunicodechar{��}{\textbaro}
\newunicodechar{��}{\textramshorns}
%% Open-mid
\newunicodechar{��}{\textepsilon}
\newunicodechar{��}{\revepsilon}
\newunicodechar{��}{\closerevepsilon}
\newunicodechar{��}{\textturnv}
\newunicodechar{��}{\openo}
%% Near-open
\newunicodechar{��}{\textturna}
\newunicodechar{��}{\textscoelig}
\newunicodechar{��}{\textturnscripta}
%% Open
%% Non-Pulmonic
\newunicodechar{��}{\textbullseye}
\newunicodechar{��}{\textpipe}
\newunicodechar{��}{\ipa{!}}
\newunicodechar{��}{\textdoublebarpipe}
\newunicodechar{��}{\textdoublepipe}
%% Voiced Implosives
\newunicodechar{��}{\texttthb}
Change History

v0.1
  General: Initial version .............. 8
v0.2
  General: Added characters ' and ' ' . 8
v0.3
  General: Updated repository path ...... 8
v0.4
  General: Removed the package from\TeX{}-distributions and changed the
  license to GPLv3+GFDLv1.3.
  This is the last release of the
  package. ............................ 8
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Version 1.3, 3 November 2008

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