Welcome to the poster tutorial!

We start at the very begin with an empty poster.

In this tutorial, we use A3 sized paper in landscape format which can be set up with the geometry package. Naturally, we need the tcolorbox package with at least the poster library loaded.

At begin, we only choose the number of columns (4) and rows (5) and we display a help grid.

\documentclass[12pt]{article}
\usepackage[a3paper,landscape]{geometry}
\usepackage[poster]{tcolorbox}
\pagestyle{empty}
\begin{document}
\begin{tcbposter}
\hspace{1cm}
\begin{verbatim}
\documentclass{article}
\usepackage[a3paper,landscape]{geometry}
\usepackage[poster]{tcolorbox}
\pagestyle{empty}
\begin{document}
\begin{tcbposter}
  \begin{verbatim}
  coverage = {spread},
  poster = {showframe,columns=4,rows=5},
  \end{verbatim}
\end{tcbposter}
\end{document}
\end{verbatim}
\end{tcbposter}
\end{document}
\end{verbatim}
\end{tcbposter}
\end{document}
Poster Tutorial #2

Now, we put in some fancy settings to the poster coverage.
Also, some more packages are loaded for the future poster content.

\documentclass[12pt]{article}
\usepackage[a3paper,landscape]{geometry}
\usepackage{lipsum}
\usepackage{lmodern}
\usepackage{enumerate}
\usepackage[poster]{tcolorbox}
\tcbuselibrary{minted} % <- replace by \tcbuselibrary{listings}, if minted does not work for you
\pagestyle{empty}

% Here, we insert the poster content later
\begin{document}
\begin{tcbposter}[
\begin{Verbatim}
coverage = {
    spread,
    interior style={top color=yellow,bottom color=yellow!50!red},
    watermark text={\LaTeX\ Poster},
    watermark color=yellow,
},
\end{Verbatim}
\begin{Verbatim}
poster = {showframe,columns=4,rows=5},
\end{Verbatim}
\end{tcbposter}
% Here, we insert the poster content later
\end{document}
It is time to fill boxes into the \texttt{poster} environment. This is the most crucial part of your poster creation, because you have to decide about the general contents and the base design. But, as you can see in the listing below, the boxes are placed with relative positions to each other and the sizes are able to change automatically.

\begin{verbatim}
\posterbox[name=title,column=1,span=3,below=top]{
  \resizebox{18cm}{!}{\bfseries\Huge
  My Important Project}\[3mm]\Hans.Mustermann@deepthought.university
}
\posterbox[adjusted title=References]{name=references,column=2,span=1.5,above=bottom}{}
\posterbox[adjusted title=Process]{name=process,column=2,span=2,above=references}{}
\posterbox[adjusted title=Project Description]{name=project,sequence=1 between title and bottom then 2 between title and process}{}
\posterbox[adjusted title=Central Picture]{name=picture,column=3,between=title and process}{}
\posterbox[adjusted title=Core Algorithm]{name=algorithm,column=4,between=top and references}{}
\posterbox[adjusted title=Contact]{name=contact,column*=4,span=1.5,between=process and bottom}{}
\end{verbatim}

The \texttt{project} box is made breakable. Note the two parts \texttt{project1} and \texttt{project2} where the second part is denoted by a placeholder.
As next step, we choose some nice settings for all the boxes. These global settings are applied using the `boxes` option of the poster.

Also, we do not need the auxiliary frame lines anymore and we set `showframe=false`.

```
\begin{tcbposter}
    \coverage = {
        spread,
        interior style={top color=yellow,bottom color=yellow!50!red},
        watermark text={\LaTeX\ Poster},
        watermark color=yellow,
    },
    poster = {showframe=false,columns=4,rows=5},
    boxes = {
        enhanced standard jigsaw,sharp corners=downhill,arc=3mm,boxrule=1mm,
        colback=white,opacityback=0.75,colframe=blue,
        title style={left color=black,right color=cyan},
        fonttitle=\bfseries\Large\scshape
    }
\end{tcbposter}
```

%...
We make the title box different from the other boxes by removing everything except the background. Also, two pictures are added left and right which should be seen as logos or similar things.

\posterbox{blankest,interior engine=path,height=3cm, 
    halign=center,valign=center,fontupper=\bfseries\large,colupper=red!25!black, 
    underlay={ 
      \node[right,inner sep=0pt,outer sep=0pt] at (frame.west) {\includegraphics[height=3cm]{pink_marble.png}}; 
      \node[left,inner sep=0pt,outer sep=0pt] at (frame.east) {\includegraphics[height=3cm]{crinklepaper.png}}; 
    }, 
    ){name=title,column=1,span=3,below=top}{\resizebox{18cm}{!}{\bfseries\Huge My Important Project}}

Hans.Mustermann@deepthought.university
My Important Project
Hans.Mustermann@deepthought.university

References

[1] Important Authors, Important Title
[3] Less Important Authors, Less Important Title

Surely, you noted that all boxes adapt to the grown height of our references box. Maybe, you want to get some pages back to see how the box placements were done for this example.
We go on with the process which gets some example \texttt{tikzpicture}.
Note that you always can insert additional \texttt{tcolorbox} options like \texttt{halign=center} to a \texttt{posterbox}.

%...
\posterbox[adjusted title=Process,halign=center]{name=process,column=2,span=2,above=references}{
\begin{tikzpicture}[very thick,radius=2cm]
\begin{scope}
\path[draw=black,fill=white] (0,0) circle;
\path[fill=red] (0,0) -- (2,0) arc [start angle=0, end angle=30];
\end{scope}
\begin{scope}[xshift=5cm]
\path[draw=black,fill=white] (0,0) circle;
\path[fill=red] (0,0) -- (2,0) arc [start angle=0, end angle=70];
\end{scope}
\begin{scope}[xshift=10cm]
\path[draw=black,fill=white] (0,0) circle;
\path[fill=red] (0,0) -- (2,0) arc [start angle=0, end angle=110];
\end{scope}
\begin{scope}[xshift=15cm]
\path[draw=black,fill=white] (0,0) circle;
\path[fill=red] (0,0) -- (2,0) arc [start angle=0, end angle=240];
\end{scope}
%...\end{tikzpicture}
\%...
My Important Project

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Project Description


by [2]


That's all.

Process

The project is a breakable box with two parts. Nevertheless, you can fill the box like any other box. The information on how to break was already given by the placement options.

% ...
\posterbox{adjusted title=Project Description}{name=project, sequence=1 between title and bottom then 2 between title and process}{
\lipsum[1]
\begin{center}
\tikz \draw[thick,rounded corners=8pt]
(0,0)--(0,2)--(1,3.25)--(2,2)--(2,0)--(0,2)--(2,2)--(0,0)--(2,0);
\quad
by \[\ref{litB}\]
\end{center}
\lipsum[2-3]\par
See \[\ref{litC}\]:
\lipsum[4]
\begin{center}
\tikz \shadedraw[left color=red,right color=blue]
(0,0) rectangle (2,2);
\end{center}
That's all.
% ...

The two boxes have a closed appearance, because we used enhanced standard jigsaw as global style for all boxes. For an open appearance, just use enhanced jigsaw instead:

% ...
begin(tcbposter){
% ...
boxes = {
  enhanced jigsaw, % <--------------
  sharp corners=downhill,arc=3mm,boxrule=1mm,
% ...
}
% ...

References

[1] Important Authors, Important Title
[3] Less Important Authors, Less Important Title

Contact
My Important Project
Hans.Mustermann@deepthought.university

Project Description


That’s all.

References

[1] Important Authors, Important Title
[3] Less Important Authors, Less Important Title

Process

In our example, the whole space of the picture box should be filled with a given picture. This is a piece of cake using a special interior style:

```latex
\posterbox[adjusted title=Central Picture, interior style={fill overzoom image=blueshade.png}]{name=picture,column=3,between=title and process}{}
```

Contact
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Project Description


Central Picture

For the Algorithm, we need a \texttt{verbatim} environment. Here, \texttt{tcblisting} is used. Therefore, we cannot use a \texttt{posterbox} as usual, but we can a \texttt{posterboxenv} environment instead. Note that you would get some weird errors, if \texttt{posterbox} would have been applied.

Notes

%...
\begin{posterboxenv}[adjusted title=Core Algorithm,leftupper=0pt,rightupper=0pt]
\begin{tcblisting}[blanket,listing only]
\begin{tikzpicture}[very thick,radius=2cm]
\end{tikzpicture}
\end{tcblisting}
\end{posterboxenv}

References

[1] Important Authors, Important Title
[3] Less Important Authors, Less Important Title

Contact
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Project Description


Poster Tutorial #11

Finally, the contact box is filled. But, in our example case, there is not much space for a lot of contact text. Therefore, we add fit to fit in the text automatically.

```
%... 
posterbox[adjusted title=Contact,fit,fit basedim=12pt]{
  \lipsum[2]
}(name=contact,column*=4,span=1.5,between=process and bottom)
%...
```

Our poster is finished now. Just go to the next page to see the final result.

References

[1] Important Authors, Important Title
[3] Less Important Authors, Less Important Title

Contact


Core Algorithm

```
\begin{tikzpicture}[very thick,radius=2cm]
  \begin{scope}
    \path[draw=black,fill=white] (0,0) circle;
    \path[fill=red] (0,0) -- (2,0) arc [start angle=0, end angle=30];
  \end{scope}
  \begin{scope}[xshift=5cm]
    \path[draw=black,fill=white] (0,0) circle;
    \path[fill=red] (0,0) -- (2,0) arc [start angle=0, end angle=110];
  \end{scope}
  \begin{scope}[xshift=10cm]
    \path[draw=black,fill=white] (0,0) circle;
    \path[fill=red] (0,0) -- (2,0) arc [start angle=0, end angle=240];
  \end{scope}
\end{tikzpicture}
```

```
\begin{tikzpicture}[very thick,radius=1cm]
  \begin{scope}
    \path[draw=black,fill=white] (0,0) circle;
    \path[fill=red] (0,0) -- (2,0) arc [start angle=0, end angle=30];
  \end{scope}
  \begin{scope}[xshift=5cm]
    \path[draw=black,fill=white] (0,0) circle;
    \path[fill=red] (0,0) -- (2,0) arc [start angle=0, end angle=110];
  \end{scope}
  \begin{scope}[xshift=10cm]
    \path[draw=black,fill=white] (0,0) circle;
    \path[fill=red] (0,0) -- (2,0) arc [start angle=0, end angle=240];
  \end{scope}
\end{tikzpicture}
```
My Important Project

Hans.Mustermann@deepthought.university

Project Description


Central Picture

That’s all.

Process

References

[1] Important Authors, Important Title
[3] Less Important Authors, Less Important Title

Contact

The LaTeX package tcolorbox - version 4.51 (2021/06/14)

The LaTeX package tcolorbox - version 4.51 (2021/06/14)

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