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Chapter 1

Preliminaries

Introduction

Description

At some point during my LaTeXwriting life, I decided to put together a portfolio of cool tricks and tips, which I had used in the past or wanted to apply i the future. Something like an index or a portfolio.

I wanted that document to consist of multiple small parts, one for each tip, and each part should contain both example code and the complied example. A great deal of searching was done to find a technical solution which would allow for a document which would allow for:

1. indexable, possible multi-page examples
2. examples to be compiled in isolation, free of package conflicts which would surely emerge in such a document
3. a modular structure, with each example be a short .tex file which would be included to the collection

I did a related question a while back on TeX-StackExchange, but there was no good answer.

Finally, I managed to get a satisfactory result with the `pdfpages` package. I put together a template document to be used for each example, compile it and then include the output .pdf to the collection document.

The code of the top-level document can be seen below.

Enjoy!

Used Packages

`pdfpages`

Code

```
\documentclass[onepage]{book}

\usepackage{pdfpages}

\begin{document}

\tableofcontents

\chapter{Preliminaries}
\includepdf[pages=-, fitpaper=false, addtotoc={1,section,1,Template,sec:template}]{tricks/
    introduction/introduction.pdf}

<other-includes>

\end{document}
```

Check on the next section for the template code of each section.

Template

Description

A uniform template is useful to keep all the tips and examples of this portfolio consistent and searchable. The related code, both for the preamble and the document, as well as the compiled examples are provided in separate sections.

For this section, the template code is presented.

Used Packages

`xcolor, listings, url, hyperref`

Preamble

```
\documentclass{article}

\usepackage[a4paper, total={7in, 9in}]{geometry}
\pagestyle{empty}

\usepackage{xcolor} % Required for listings color definitions
\definecolor{Brown}{cmyk}{0,0.81,1,0.60}
\definecolor{OliveGreen}{cmyk}{0.64,0,0.95,0.40}
\definecolor{CadetBlue}{cmyk}{0.62,0.57,0.23,0}
\definecolor{lightlightgray}{gray}{0.9}

\usepackage{listings} % computer code language formatting

\lstdefinestyle{tex-style} {
language=TeX,                       % Code langugage
basicstyle=\ttfamily,               % Code font, Examples: \footnotesize, \ttfamily
%keywordstyle=\color{OliveGreen},    % Keywords font ('*' = uppercase)
commentstyle=\color{gray},          % Comments font
numbers=none,                       % Line nums position
numberstyle=\tiny,                  % Line-numbers fonts
stepnumber=1,                       % Step between two line-numbers
numbersep=5pt,                      % How far are line-numbers from code
backgroundcolor=\color{lightlightgray}, % Choose background color
frame=single,                         % A frame around the code
tabsize=2,                          % Default tab size
captionpos=b,                       % Caption-position = bottom
breaklines=true,                    % Automatic line breaking?
breakatwhitespace=false,            % Automatic breaks only at whitespace?
showspaces=false,                   % Dont make spaces visible
showtabs=false,                     % Dont make tabls visible
columns=flexible,                   % Column format
morekeywords={__global__, __device__} % CUDA specific keywords
}
\lstset{style=tex-style}

\usepackage[hyphens]{url}
\usepackage{hyperref}
\hypersetup{
colorlinks=true,
citecolor=black,
```

```
filecolor=black,
linkcolor=blue,
urlcolor=blue
}
```

Document

```
\section*{<example-title>}

\subsection*{Description}
<a-few-words-on-the-example>

\subsection*{Sources}
\textit{<add reference sources here>}

\subsection*{Used Packages}
\verb|<state-the-required-packages-here|

\subsection*{Preamble}
\begin{lstlisting}
<paste-the-example-related-preamble-code-here>
\end{lstlisting}

\subsection*{Document}
\begin{lstlisting}
<paste-the-document-code-here-for-presentation>
\end{lstlisting}

\subsection*{Example Result}
<paste-the-example-document-code-here-for-compilation>
```

Chapter 2

tikz tricks

File System Structure

Description

A tree file system graphical structure is generated, drawn as a tikz image. The trees tikz library is used to build the structure.

Sources

http://tex.stackexchange.com/questions/306415/connecting-tree-nodes-with-double-arrows-a-la-chef?newsletter=1&nlcode=544695%7c921f

Used Packages

tikz

Preamble

```
\documentclass[class=article, crop=false]{standalone}

\usepackage{tikz}
\usetikzlibrary{trees,decorations.markings}
```

Example Code

```
\tikzstyle{every node}=[draw=black,thick,anchor=west]
\tikzstyle{selected}=[draw=red,fill=red!30]
\tikzstyle{optional}=[dashed,fill=gray!50]

\newcommand{\arrowcolor}{red}
\newcommand{\arrowfillcolor}{white}

\pgfdeclarelayer{front}
\pgfsetlayers{main,front}

\makeatletter
\pgfkeys{%
/tikz/path on layer/.code={
\def\tikz@path@do@at@end{\endpgfonlayer\endgroup\tikz@path@do@at@end}%
\pgfonlayer{#1}\begingroup%
}%
}
\makeatother

\begin{tikzpicture}[%
rightarr/.pic={\path[pic actions] (-0.4,0)--(-1,-0.35)--(-1,.35)--cycle;},
grow via three points={one child at (0.5,-0.7) and
two children at (0.5,-0.7) and (0.5,-1.4)},
edge from parent path={(\tikzparentnode.south) |- (\tikzchildnode.west)},
edge from parent/.style={
decoration={
markings,
```

```
mark=at position 1 with{\coordinate (0, 0) pic[\arrowcolor,fill=\arrowfillcolor,scale=0.22]{
    rightarr};},
},
draw = \arrowcolor,
line width = 3pt,
shorten >= 5.7pt,
shorten <= 2pt,
postaction = {decorate},
postaction = {draw,line width=1.4pt,white,path on layer=front},
}]
\node {texmf}
child { node {doc}}
child { node {fonts}}
child { node {source}}
child { node [selected] {tex}
child { node {generic}}
child { node [optional] {latex}}
child { node {plain}}
}
child [missing] {}
child [missing] {}
child [missing] {}
child { node {texdoc}};
\end{tikzpicture}
```

Example Result