

L^AT_EX Style for CFPB Presentations ^{*}

Boris Veytsman[†]

2015/05/04, v1.02

Abstract

This package provides class for typesetting CFPB Presentations

Contents

1	Introduction	2
2	User Guide	2
2.1	Installation	2
2.2	Invocation	3
2.3	Public and confidential presentations	3
2.4	Creating a Presentation and Customization	3
3	Implementation	5
3.1	Preliminaries and loading packages	5
3.2	Fonts	5
3.3	Outer theme	6
3.4	Inner theme	6
3.5	Color theme	7
3.6	Colors	7
3.7	Commands to change confidentiality	7
3.8	The final words	7

^{*}©2015, Boris Veytsman

[†]borisv@lk.net, boris@varphi.com

1 Introduction

This class provides the uniform style for the presentations of CFPB. It is based on the design principles of CFPB [1] and implements them in Beamer [2]. The design aim was to produce a simple generic design, which could be customized by individual CFP researchers while keeping the uniform style of a CFPB presentation.

2 User Guide

2.1 Installation

The installation of the class follows the usual practice [3] for L^AT_EX packages:

1. Run `latex` on `cfpbdatapoints.ins`. This will produce the L^AT_EX class `cfpbdatapoints.cls`.
2. Put the file `cfpbdatapoints.cls` and the logos in the EPS and PNG format (`CFPBLogo.eps`, `CFPBLogo.png`) to the place where L^AT_EX can find it (see [3] or the documentation for your T_EX system).
3. Update the database of file names. Again, see [3] or the documentation for your T_EX system for the system-specific details.
4. The file `cfpbdatapoints.pdf` provides the documentation for the package (this is the file you are probably reading now).

As an alternative to items 2 and 3 you can just put the file `cfpbdatapoints.cls` in the working directory where your `.tex` file is.

The package uses non-free font Arial, which must be installed on your computer (see the more detailed discussion in Section 2.2). The installation depends on your computer platform and T_EX system:

1. On many platforms XeT_EX and LuaT_EX can use system-wide fonts without additional setup. Most Windows machines and some Mac machines have Arial fonts preinstalled, so `xelatex` and `luatex` should work with the package out of the box.
2. On some other platforms T_EX does not find these fonts. Most Linux machines do not have them. In these cases you need to install the following six files: `arialbd.ttf`, `arialbi.ttf`, `ariali.ttf`, `arial.ttf`, to the place T_EX sees them. You can find these files on a Windows machine in the `Windows\Fonts` directory.

The simplest solution is just to copy these files into the working directory. A more permanent one is to put them in the proper directory in your TEXMF path. For example, for a Linux T_EXLive installation you may choose `/usr/local/texlive/texmf-local/fonts/truetype/monotype/arial` for a machine-wide installation, or `~/texmf/fonts/truetype/monotype/arial`

for the per-user installation. Do not forget to run `mktexlsr` (or `sudo mktexlsr`) after any changes in these directories.

To check the installation try the command `kpsewhich georgia.ttf`. It should give you the location of the TTF file.

2.2 Invocation

To use the class, put in the preamble of your document

```
\documentclass{cfpbdatapoints}
```

CFPB brand fonts are Georgia and Arial. This package uses TrueType versions of these fonts with the help of `fontspec` package. This means that you *must* use `xelatex` or `lualatex` and the properly installed fonts (see Section 2.1) to produce the “official” output. You still can use `pdflatex`, which will automatically substitute Charter for Georgia and Helvetica for Arial. Note that mathematics fonts are the same for all three choices (based on Charter).

In the documentation for this package you can find the PDF output produced by `pdflatex` (`sample-pdflatex.pdf`) with Charter/Helvetica and the PDF output produced by `xelatex` & `lualatex` (`sample-xelatex.pdf` & `sample-lualatex.pdf`) with Georgia/Arial.

Note that usually `pdflatex` is much faster than the other engines. Also, you do not have an access to all T_EX ligatures with Georgia and Arial fonts.

2.3 Public and confidential presentations

By default all presentations are confidential, and the the corresponding warning is added to each slide. The option `public` deletes this warning, and the option `confidential` (default) recovers it.

```
\SetPublic      Instead of this option, macros \SetPublic and \SetConfidential can be used
\SetConfidential to switch the warning on or off. These macros can be used to tune the warning,
                  adding it for some slides only.
```

2.4 Creating a Presentation and Customization

The class `cfpbpresentation` is based on the `beamer` class, so all commands of Beamer are available for it. We refer the reader to the extensive documentation of Beamer [2] about creation of presentations. In particular, the construction

```
\begin{itemize}[<+>->]
\item A
\item B
\end{itemize}
```

is convenient for slide transitions.

Note that Beamer allows only three levels of nested lists, so if one needs to have, for example, four levels of `itemize`, one can use `description` with `\item[\bullet]` label.

Let us discuss the customization of the presentation. Beamer uses “themes” to change the look and feel of the output. There are as many as five flavors of themes:

Presentation themes select *all* details of the presentation: they just call color, font, inner and outer themes.

Color themes select the colors of the output.

Font themes select the fonts.

Inner themes select the look of the “inside” elements of the presentation.

Outer themes select the general look of the slides.

We recommend to change, if necessary, only *outer* themes of the presentation with the command `\useoutertheme[options]{theme}`. The other elements of the presentation should be left as is to keep the integrity of CFPB design.

3 Implementation

3.1 Preliminaries and loading packages

```
\if@CFPB@confidential Switch whether this document is confidential
1 \newif\if@CFPB@confidential
2 \@CFPB@confidentialtrue

Options to control the confidentiality:
3 \DeclareOption{public}{\@CFPB@confidentialfalse}
4 \DeclareOption{confidential}{\@CFPB@confidentialtrue}

We pass all other options to the base class:
5 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{beamer}}
6 \ProcessOptions\relax

And load the base class and packages
7 \LoadClass[t]{beamer}
```

3.2 Fonts

```
\if@CFPB@useTTF Whether we use TTF versions of the fonts
8 \newif\if@CFPB@useTTF
9 \@CFPB@useTTFfalse

TTF fonts are used for XeTeX or LuaTeX:
10 \RequirePackage{ifxetex}
11 \ifxetex\@CFPB@useTTFtrue\fi
12 \RequirePackage{ifluatex}
13 \ifluatex\@CFPB@useTTFtrue\fi

14 \ifx\HCode\UnDef
15   \if@CFPB@useTTF
16     \RequirePackage{fontspec}
17     \setsansfont{arial.ttf}[
18       Ligatures = TeX,
19       BoldFont = arialbd.ttf,
20       ItalicFont = ariali.ttf,
21       BoldItalicFont = arialbi.ttf
22     ]
23     \setmainfont{arial.ttf}[
24       Ligatures = TeX,
25       BoldFont = arialbd.ttf,
26       ItalicFont = ariali.ttf,
27       BoldItalicFont = arialbi.ttf
28     ]
29   \else
30     \RequirePackage[scaled=1.04]{helvet}% sans serif
31     \renewcommand\rmdefault{phv}%
32     \usepackage{arevmath}%
```

```

33 \fi
34 \fi
35 \RequirePackage{microtype}

```

3.3 Outer theme

We use the default outer theme with the CFPB logo:

```

36 \setbeamertemplate{sidebar left}
37 {
38 \vfill
39 \hspace{.15in}\insertlogo\vskip0.15in%
40 }
41
42 \setbeamertemplate{sidebar right}
43 {
44 \vfill%
45 \llap{\if@CFPB@confidential\footnotesize\color{CFPBGreen}%
46 Sensitive and Pre-Decisional. Not For Public Disclosure\fi\hspace{0.2in}%
47 \vskip.21in%
48 }
49 \logo{\href{http://www.consumerfinance.gov/}{\includegraphics[height=0.2in]{CFPBLogo}}}

```

3.4 Inner theme

We want different itemize markers on different levels:

```

50 \setbeamertemplate{itemize item}{\tiny\raise1.7pt\hbox{\donotcoloroutermaths$\blacksquare$}}
51 \setbeamertemplate{itemize subitem}{\tiny\raise1.5pt\hbox{\donotcoloroutermaths$\square$}}
52 \setbeamertemplate{itemize subsubitem}{\tiny\raise1.5pt\hbox{\donotcoloroutermaths$-$}}

```

We want left-aligned title page

```

53 \setbeamertemplate{title page}
54 {
55 \vbox{}
56 \vfill
57 \begin{group}
58 \raggedright
59 \begin{beamercolorbox}{title}
60 \usebeamerfont{title}\inserttitle\par%
61 \ifx\insertsubtitle\@empty%
62 \else%
63 \vskip0.25em%
64 {\usebeamerfont{subtitle}\usebeamercolor[fg]{subtitle}\insertsubtitle\par}%
65 \fi%
66 \end{beamercolorbox}%
67 \vskip2em\par
68 \begin{beamercolorbox}{author}
69 \usebeamerfont{author}\insertauthor
70 \end{beamercolorbox}
71 \begin{beamercolorbox}{institute}

```

```

72     \usebeamerfont{institute}\insertinstitute
73   \end{beamercolorbox}
74   \begin{beamercolorbox}{date}
75     \usebeamerfont{date}\insertdate
76   \end{beamercolorbox}\vskip0.5em
77   {\usebeamercolor[fg]{titlegraphic}\inserttitlegraphic\par}
78 \endgroup
79 \vfill
80 }

```

We want a 0.5" margins around the slide

```

81 \setbeamersize{text margin left=.15in}
82 \setbeamersize{text margin right=.15in}
83 \setbeamertemplate{frametitle}{%
84   \vspace{.15in}%
85   \insertframetitle
86 }

```

3.5 Color theme

3.6 Colors

CFPB colors:

```

87 \definecolor{CFPBGreen}{cmyk}{.77, 0, 1, 0}
88 \definecolor{CFPBGreenMidtone}{cmyk}{.32,0,.52,0}
89 \definecolor{CFPBGreenTint}{cmyk}{.14,0,.20,0}

```

And we use them in the template

```

90 \setbeamercolor{structure}{fg=CFPBGreen}

```

3.7 Commands to change confidentiality

`\SetPublic` Switching to the public slides

```

91 \def\SetPublic{\@CFPB@confidentialfalse}

```

`\SetConfidential` Switching to the private slides

```

92 \def\SetConfidential{\@CFPB@confidentialtrue}

```

3.8 The final words

```

93 \normalsize\normalfont
94 \end{class}

```

References

- [1] The Consumer Financial Protection Bureau. *CFPB Design Manual*, 2015. <http://cfpb.github.io/design-manual/>.
- [2] Till Tantau, Joseph Wright, and Vedran Miletić. *The BEAMER class. User Guide for version 3.36*, March 2015. <http://bitbucket.org/rivanvx/beamer>.
- [3] UK T_EX Users Group. UK list of T_EX frequently asked questions. <http://www.tex.ac.uk/cgi-bin/texfaq2html>, 2015.

Change History

v1.00		v1.02	
General: First version released . . .	1	General: Made slides top-aligned vertically	5
v1.01		\if@CFPB@confidential: Added macro	5
General: Changed itemize list markers	6	\SetConfidential: Added macro .	7
Moved to left aligned title page .	6	\SetPublic: Added macro	7
Set margins	7		

Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

Symbols	\HCode 14	R
\@CFPB@confidentialfalse 3, 91	\href 49	\raggedright 58
\@CFPB@confidentialtrue 2, 4, 92	\hskip 46	\raise 50, 51, 52
\@CFPB@useTTFfalse .. 9	\hspace 39	\relax 6
\@CFPB@useTTFtrue 11, 13	I	\renewcommand 31
\@empty 61	\if@CFPB@confidential 1, 45	\RequirePackage 10, 12, 16, 30, 35
B	\if@CFPB@useTTF .. 8, 15	\rmdefault 31
\begin ... 59, 68, 71, 74	\ifluatex 13	S
\begingroup 57	\ifx 14, 61	\setbeamercolor ... 90
\blacksquare 50	\ifxetex 11	\setbeamersize .. 81, 82
C	\includegraphics .. 49	\setbeamertemplate 36, 42,
\color 45	\insertauthor 69	50, 51, 52, 53, 83
\CurrentOption 5	\insertdate 75	\SetConfidential . 3, 92
D	\insertframetitle . 85	\setmainfont 23
\DeclareOption .. 3, 4, 5	\insertinstitute .. 72	\SetPublic 3, 91
\def 91, 92	\insertlogo 39	\setsansfont 17
\definecolor . 87, 88, 89	\insertsubtitle . 61, 64	\square 51
\donotcoloroutermaths 50, 51, 52	\inserttitle 60	T
E	\inserttitlegraphic 77	\tiny 50, 51, 52
\else 29, 62	L	U
\end 66, 70, 73, 76	\llap 45	\UnDef 14
\endgroup 78	\LoadClass 7	\usebeamercolor . 64, 77
F	\logo 49	\usebeamerfont 60, 64, 69, 72, 75
\fi 11, 13, 33, 34, 46, 65	N	\usepackage 32
\footnotesize 45	\newif 1, 8	V
H	\normalfont 93	\vbox 55
\hbox 50, 51, 52	\normalsize 93	\vfill ... 38, 44, 56, 79
	P	\vskip . 39, 47, 63, 67, 76
	\par 60, 64, 67, 77	\vspace 84
	\PassOptionsToClass . 5	
	\ProcessOptions 6	