

\LaTeX Slides styles using tikz

Rainy

December 29, 2014

0

Outline

- 1 Why is it?
- 2 Packages used
- 3 How to use the *.cls
- 4 Source tex of this presentation
- 5 Source ryslidepyramid.cls
- 6 L^AT_EX introduction on Wiki

1

Why is it?

- BEAMER is the most popular class
- Among L^AT_EX packages for making presentation
- However, BEAMER is too straight
- Interested by the slide design in ConTeXt
- Let's design some new styles in L^AT_EX

2

Packages used

geometry set the screen size

fancyhdr set header and footer

titling set title format

tikz design the background

eso-pic display the background

3

How to use the *.cls

- using `\documentclass{class_name}` to declare the class
- using `\myfrontcover` to show the title page
- using `\tableofcontents` to show the outline
- using `\section` to start a topic
- using `\newpage` to begin a new slide
- using `\mybackcover` to show the end page
- no more difference with L^AT_EX

- no functions like pause in BEAMER

4

Source tex of this presentation

```

1 \documentclass{rslidepyramid}
2 % declare any package you need like below
3 \usepackage{fancyvrb}
4 \renewcommand{\theFancyVerbLine}{%
5     \color{gray!30}{\tiny\arabic{FancyVerbLine}}}
6 % Demo the presentation as follows
7 \title{\LaTeX{} Slides styles using tikz}
8 \author{Rainy}
9 \date{\today}
10 \begin{document}
11 % show the title page using \myfrontcover defined in the cls file
12 \myfrontcover
13 % show the outline
14 \tableofcontents\thispagestyle{empty}

```

```

15 % using \section to start a topic of your presentation
16 % using \newpage to start a new slide
17 \newpage\section{Why is it?}
18 \begin{itemize}
19     \item \textsc{Beamer} is the most popular class
20     \item Among \LaTeX{} packages for making presentation
21     \item However, \textsc{Beamer} is too straight
22     \item Interested by the slide design in ConTeXt
23     \item Let's design some new styles in \LaTeX{}
24 \end{itemize}
25 \newpage\section{Packages used}
26 \begin{description}
27     \item[geometry] set the screen size
28     \item[fancyhdr] set header and footer
29     \item[titling] set title format
30     \item[tikz] design the background
31     \item[eso-pic] display the background
32 \end{description}
33 \newpage\section{How to use the *.cls}
34 \begin{itemize}
35     \item using {\small\verb"\documentclass{class_name}"} to declare the class
36     \item using {\small\verb"\myfrontcover"} to show the title page

```



```

37 \item using {\small\verb"\tableofcontents"} to show the outline
38 \item using {\small\verb"\section"} to start a topic
39 \item using {\small\verb"\newpage"} to begin a new slide
40 \item using {\small\verb"\mybackcover"} to show the end page
41 \item no more difference with \LaTeX{}
42 \item no functions like {\tt pause} in {\textsc{Beamer}}
43 \end{itemize}
44 \newpage\section{Source {\tt tex} of this presentation}
45 \fvset{fontsize=\scriptsize,numbers=left,numbersep=3pt}
46 \VerbatimInput{ryslidepyramidTEST.tex}
47 \newpage\section{Source {\tt ryslidepyramid.cls}}
48 \fvset{fontsize=\scriptsize,numbers=left,numbersep=3pt}
49 \VerbatimInput{ryslidepyramid.cls}
50 \newpage\section{\LaTeX{} introduction on Wiki}
51 \LaTeX{} is a document preparation system and document markup language.
52 It is widely used for the communication and publication of scientific documents
53 including mathematics, physics, computer science, statistics, economics, and pol
54 It also has a prominent role in the preparation and publication of books %
55 and articles that contain complex multilingual materials,
56 such as Sanskrit and Arabic, including critical editions.
57 \LaTeX{} uses the \TeX{} typesetting program for formatting its output,
58 and is itself written in the \TeX{} macro language.

```

```
59 \LaTeX{} is not the name of a particular editing program,  
60 but refers to the encoding or tagging conventions that are used in \LaTeX{} docu  
61 \mybackcover  
62 % of cause you can use custom back cover instead of \mybackcover  
63 %\newpage  
64 %\vspace*{\fill}  
65 %{\centering\color{white} See Your Later\\}  
66 %\vspace*{\fill}  
67 \end{document}
```

5

Source ryslidyramid.cls

```

1 % ryslidyramid.cls <utf-8 encoding>
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesClass{ryslidyramid3}[2013/11/28 by Rainy <renyuuu@gmail.com>]
4 \LoadClass{article}
5 % set screen size
6 \RequirePackage[paperheight=96mm,paperwidth=128mm,%
7             hmargin={24mm,24mm},vmargin={16mm,16mm},%
8             headheight=13pt,headsep=11mm,footskip=11mm]%
9             {geometry}
10 % set background
11 \RequirePackage{xcolor}
12 \definecolor{mydarkgreen}{RGB}{21,49,107} % foreground
13 \definecolor{mygreen}{RGB}{0,0,0} % background

```

```
14 \definecolor{mylightgreen}{RGB}{162,160,186} % for author
15 \definecolor{myorange}{RGB}{232,232,235} % for title
16 \definecolor{mydarkorange}{RGB}{86,139,252} % for shadow
17 % set cover page
18 \RequirePackage{titling}
19 \pretitle{\begin{center}\LARGE\sf\color{myorange}}
20 \posttitle{\par\end{center}\vspace{10mm}}
21 \preauthor{\begin{center}\large\sf\color{mylightgreen}}
22 \postauthor{\par\end{center}\vspace{-2mm}}
23 \predate{\begin{center}\small\sf\color{gray!30}}
24 \postdate{\par\end{center}}
25 %% \mythetitle is defined to substitute for \thetitle,
26 %% which is defined by Package titling but redefined by Package titlesec.
27 \let\oldtitle\title
28 \renewcommand{\title}[1]{\oldtitle{#1}\newcommand{\mythetitle}{#1}}
29 % set footer and header
30 \RequirePackage{fancyhdr}
31 \pagestyle{fancy}
32 \fancyheadoffset{12mm}
33 \fancyfootoffset{12mm}
34 \lhead{\footnotesize\color{black!50}\mythetitle}
35 \chead{}
```

```

36 \rhead{}
37 \lfoot{}
38 \cfoot{}
39 \rfoot{\footnotesize\sf\color{black!50}\theauthor}
40 \renewcommand{\headrulewidth}{0pt}
41 \renewcommand{\footrulewidth}{0pt}
42 % set formats for title and tableofcontents
43 \renewcommand\contentsname{Outline}
44 \RequirePackage{titlesec,titletoc}
45 \titleformat{\section}
46   {} % format for both label and section name
47   {} % format for labe only
48   {-6ex}
49   {\color{mylightgreen}\fontsize{60}{10}\usefont{OT1}{pzc}{m}{n}\selectfont%
50     \thesection\filleft\}%
51   \color{myorange}\Large\sf\filleft}
52 % here \thesection set the label of Outline as 0
53 \titlecontents{section}
54   [0pt]
55   {\addvspace{1ex}}%
56   {\contentsmargin{0pt}}%
57   \makebox[1.5em][l]%

```

```

58             {\color{mylightgreen}\Large\usefont{OT1}{pzc}{m}{n}\thecontentsla
59             \sf}
60             {\contentsmargin{0pt}}
61             {}%{\quad/\,\,\sf\contentspage}
62 % set background
63 \RequirePackage{totcount}
64 \regtotcounter{page}
65 \RequirePackage{tikz,ifthen,eso-pic}
66 \AddToShipoutPicture{%
67     \begin{tikzpicture}
68     \clip (0,0) rectangle (128mm,96mm);
69     \fill [mygreen] (0,0) rectangle (128mm,96mm);
70     \foreach \i in {1,2,...,\totvalue{page}} {%
71         \pgfmathsetseed{\i}
72         \ifthenelse{\i>\thepage}%
73             {\def\couleur{mydarkgreen}}%
74             {\def\couleur{mydarkorange}}
75     \coordinate (SW) at (1.2+.6*rand,0.8+.4*rand);
76     \coordinate (NW) at (1.2+.6*rand,8.8+.4*rand);
77     \coordinate (SE) at (11.6+.6*rand,0.8+.4*rand);
78     \coordinate (NE) at (11.6+.6*rand,8.8+.4*rand);
79     \fill [opacity=.382,\couleur]

```

```

80         (SW)--(NW)--(NE)--(SE)--cycle;
81     }
82     \foreach \i in {1,2,...,\totvalue{page}} {%
83         \pgfmathsetseed{\i}
84         \coordinate (SW) at (1.2+.6*rand,0.8+.4*rand);
85         \coordinate (NW) at (1.2+.6*rand,8.8+.4*rand);
86         \coordinate (SE) at (11.6+.6*rand,0.8+.4*rand);
87         \coordinate (NE) at (11.6+.6*rand,8.8+.4*rand);
88         \ifthenelse{\i=\thepage}%
89             {\fill [opacity=.618,mygreen] (SW)--(NW)--(NE)--(SE)--cycle;}
90             {}
91     }
92     \end{tikzpicture}
93 }
94 % hyperref defination at last
95 \AtEndOfClass{
96 \RequirePackage[pdftagsmode=FullScreen,%
97     colorlinks=true,linkcolor=gray!30]%
98     {hyperref}
99 }%
100 % set global font and color
101 \AtBeginDocument{\color{gray!30}\small\sff}

```

```
102 % set \myfrontcover to show the front cover page
103 \newcommand{\myfrontcover}{%
104     \begin{titlingpage}
105     \setcounter{page}{0}%
106     \maketitle
107     \end{titlingpage}
108     \setcounter{page}{1}
109 }
110 % set \mybackcover to show the back cover page
111 \newcommand{\mybackcover}{%
112     \newpage\thispagestyle{empty}\vspace*{\fill}
113     {\centering\color{mylightgreen}\normalsize The End\\}
114     \vfill%
115 }
116 % EOF
```


6

L^AT_EX introduction on Wiki

L^AT_EX is a document preparation system and document markup language. It is widely used for the communication and publication of scientific documents in many fields, including mathematics, physics, computer science, statistics, economics, and political science. It also has a prominent role in the preparation and publication of books and articles that contain complex multilingual materials, such as Sanskrit and Arabic, including critical editions. L^AT_EX uses the T_EX typesetting program for formatting its output, and is itself written in the T_EX macro language. L^AT_EX is not the name of

a particular editing program, but refers to the encoding or tagging conventions that are used in L^AT_EX documents.

The End