LaTeX Slides styles using tikz

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Outline

1 Why is it?

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

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 LaTeX
- no functions like pause in BEAMER

4 Source tex of this presentation

```
1  \documentclass{ryslidepie}
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{ryslidepieTEST.tex}
47 \newpage\section{Source {\tt ryslidepie.cls}}
48 \fvset{fontsize=\scriptsize,numbers=left,numbersep=3pt}
49 \VerbatimInput{ryslidepie.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 in many fiel
53 including mathematics, physics, computer science, statistics, economics, and political scien
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{} documents.
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 `ryslidepie.cls`

```
1 % ryslidepie.cls <utf-8 encoding>
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesClass{ryslidepie}[2012/05/14 by Rainy <renyuuu@gmail.com>]
4 \LoadClass{article}
5 % set screen size
6 \RequirePackage[paperheight=3.78in,paperwidth=5.04in,%
7                 hmargin=23pt,vmargin=26pt,%
8                 headheight=13pt,headsep=13pt,footskip=22pt]%
9                 {geometry}
10 % set background
11 \RequirePackage{totcount}
12 \regtotcounter{page}
13 \RequirePackage{tikz,eso-pic}
14 \AddToShipoutPicture{%
15     \begin{tikzpicture}[scale=0.2]
16     \fill [black!90] (-620mm,-20mm) rectangle +(640mm,480mm);
17     \clip (0mm,0mm) circle (10mm);
18     \filldraw [fill=black,draw=black] (0mm,0mm) circle (10mm);
19     \fill [gray!30] (0mm,0mm) -- (0mm,10mm)
20      arc (90:90-\thepage/\totvalue{page}*360:10mm) -- cycle;
21     \fill [black!75] (0mm,0mm) circle (6.18mm);
22     \end{tikzpicture}
```

```latex
23 }
24 % set cover page
25 \RequirePackage{titling}
26 \pretitle{\begin{flushright}\sf\LARGE\color{white}}
27 \posttitle{\par\end{flushright}\vfill}
28 \preauthor{\begin{flushright}\sf\color{gray!30}
29          \large \lineskip 0.5em%
30          \begin{tabular}[t]{c}}
31 \postauthor{\end{tabular}\par\end{flushright}}
32 \predate{\begin{flushright}\normalsize\sf\color{gray!30}}
33 \postdate{\par\end{flushright}}
34 %% \mythetitle is defined to substitute for \thetitle,
35 %% which is defined by Package titling but redefined by Package titlesec.
36 \let\oldtitle\title
37 \renewcommand{\title}[1]{\oldtitle{#1}\newcommand{\mythetitle}{#1}}
38 % set footer and header
39 \RequirePackage{fancyhdr}
40 \pagestyle{fancy}
41 \fancyheadoffset{23pt}
42 \fancyfootoffset{23pt}
43 \lhead{\hspace{5pt}\small\sf\color{gray!70}\mythetitle\,(\theauthor)}
44 \chead{}
45 \rhead{}
46 \lfoot{}
47 \cfoot{}
48 \rfoot{}
49 \renewcommand{\headrulewidth}{0pt}
```

```
50 \renewcommand{\footrulewidth}{0pt}
51 % set formats for title and tableofcontents
52 \renewcommand\contentsname{Outline}
53 \RequirePackage{titlesec,titletoc}
54 \titleformat{\section}{\color{gray!30}\Large\sf}%
55                       {\color{gray!30}\Huge\usefont{OT1}{pzc}{m}{n}\selectfont\thesection}%
56                       {0.5em}{}
57 \titlecontents{section}
58                [0pt]
59                {\addvspace{1ex}}%
60                {\contentsmargin{0pt}%
61                 \makebox[1.5em][l]%
62                {\huge\usefont{OT1}{pzc}{m}{n}\selectfont\thecontentslabel\enspace}%
63                \large\sf}
64                {\contentsmargin{0pt}}
65                {}%{\quad/\,\sf\contentspage}
66 % hyperref defination at last
67 \AtEndOfClass{
68 \RequirePackage[pdfpagemode=FullScreen,%
69                 colorlinks=true,linkcolor=gray!30]%
70                {hyperref}
71 }%
72 % set global font and color
73 \AtBeginDocument{\color{white}\small\sf}
74 % set \myfrontcover to show the front cover page
75 \newcommand{\myfrontcover}{%
76     \begin{titlingpage}
```

```
77        \setcounter{page}{0}%
78        \maketitle
79     \end{titlingpage}
80     \setcounter{page}{1}
81 }
82 % set \mybackcover to show the back cover page
83 \newcommand{\mybackcover}{%
84     \newpage\thispagestyle{empty}\vspace*{\fill}
85     {\raggedleft\color{white}\Huge\it Thank You\\}
86 }
87 % EOF
```

6 LaTeX introduction on Wiki

LaTeX 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. LaTeX uses the TeX typesetting program for formatting its output, and is itself written in the TeX macro language. LaTeX is not the name of a particular editing program, but refers to the encoding or tagging conventions that are used in LaTeX documents.

Thank You