Presentation using LaTeX

Latex Smart

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Outline

- The `seminar` document class and `fancybox` and `fancyhdr` package

- `Pdflatex` command and `geometry`, `hyperref` and `color` package

- The `foils` document class with the `FoilTeX` package

- Powerpoint-like flashy effects by using `ppower4`

2

To create a simple presentation document using LaTeX, we can use the **seminar** class. The syntax is as follows:

```
\documentclass[landscape]{seminar}
...
\begin{document}
\begin{slide}
...
\newslide
...
\end{slide}
\begin{slide}
...
\newslide
...
\end{slide}
\end{document}
```

Basics of Survival Analysis

Notations:

- $T =$ a random variable representing time to event (e.g. time to death), $T > 0$

- pdf and cdf: $f(t)$ and $F(t)$

- survivor function: $s(t) = 1 - F(t)$

- hazard function: $h(t)$, which is the probability that an individual dies at time t, given that he has survived to time t.

- relationship between $h(t)$, $f(t)$, $s(t)$:
  $h(t) = \frac{f(t)}{s(t)}$
  $s(t) = \exp\{-\int_0^t h(u)du\}$
  So $f(t) = h(t)\exp\{-\int_0^t h(u)du\}$

4

```
\usepackage{fancybox}
```

`\fbox` fbox

`\shadowbox` shadowbox

`\doublebox` doublebox

`\ovalbox` ovalbox

`\Ovalbox` Ovalbox

5

```
\usepackage{fancyhdr}
```
- `\pagestyle{fancy}`
- `\fancyhf{}` % delete current setting for header and footer
- `\lhead{left header}`
- `\chead{center header $\alpha$}`
- `\rhead{right header}`
- `\renewcommand{\headrulewidth}{0.5pt}`
- `\lfoot{left footer}`
- `\cfoot{center footer \thepage}`
- `\rfoot{right footer}`
- `\renewcommand{\footrulewidth}{0pt}`

Alternatively, we can use

- `\pagestyle{fancy}`
- `\fancyhf{}` % delete current setting for header and footer
- `\fancyhead[L]{left header}`
- `\fancyhead[C]{center header $\alpha$}`
- `\fancyhead[C]{right header}`
- `\renewcommand{\headrulewidth}{0.5pt}`
- `\fancyfoot[L]{left footer}`
- `\fancyfoot[C]{center footer \thepage}`
- `\fancyfoot[R]{right footer}`
- `\renewcommand{\footrulewidth}{0pt}`

For double-sided documents, we can use combined options.

For example, `\fancyhead[RE, LO]{\thepage}` means to place the page number in the right field of the header on even (left) pages and in the right field of the header on odd (right) pages.

E	Even page
O	Odd page
L	Left
C	Center
R	Right
H	Header
F	Footer

PDFLaTeX

- PDFLaTex is a version of LaTeX that generates PDF output

- PDF is a near-universal format

- PDF file can be "full-screen" displayed

- PDF has a number of advanced features — special display effects, hyperlinks, and so forth

Syntax

pdflatex filename.tex