Presentation using PDFLaTeX and FoilTeX class

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Why use `foils` class instead of `seminar` class

- nice centered titles and text in very large fonts
- easy to rotate either the entire set of foils to landscape mode or to rotate individual foils
- easy to control the header and footer
- directly produce `pdf` output which can be displayed and printed in “full-screen” mode if combined with `pdflatex`

Using FoilTEX

To create a simple presentation document using FoilTEX, we can use the `foils` class. The syntax is as follows:

```
\documentclass[landscape]{foils}
...
\begin{document}
\foilhead[length]{title of page 1}
...
\foilhead[length]{title of next page}
...
\end{document}
```

where the option `length` specify the vertical space used as a cushion between the header and the body of the foil. For example, if you want the body of your foil to sit closer to the header, you could use the command

```
\foilhead[-0.5in]{This is the Header}
```

rotatefoilhead macros

To rotate a foil, simply use `\rotatefoilhead` instead of `foilhead`

- everything on the page will be rotate including header and footer.
- if the default position is portrait, then this foil will be rotated to landscape.
- if the default position is landscape, then it rotates to portrait.
- if a rotated foil is splitted into several pages, then each of these pages will also be rotated. Normal orientation is recovered by the next invocation of `\foilhead`.

Header and Footer

The code for this page's header and footer are

```
\leftheader{left header $\Sigma$}
\rightheader{right header \thepage}
\rightfooter{right footer}
```

To clear the header and footer, type

```
\leftheader{}
\rightheader{}
\rightfooter{}
```

To add ruler in the header and footer, use the `headrule` and `footrule` class options.

```
\documentclass[landscape, headrule, footrule]{foils}
```

Left Footer

- The left footer is controlled by `\MyLogo` and `\Restriction` macro.
- By default, the footline consists of the contents of `\MyLogo` followed by the contents of `\Restriction`.
- By default (`\MyLogo{}` and `\Restriction{}`), `\Restriction` is empty and `\MyLogo` is the phrase

  “– Typeset by FoilTEX –”.
- You can toggle on and off the logo by macro `\LogoOn` and `LogoOff`.

Installation of FoilTEXand Compilation of Foil files

We can download the FoilTEX package from the following site:

http://www.ctan.org/tex-archive/macros/latex/contrib/supported/foiltex/

After downloading the necessary files, use command `latex foiltex.ins` for installation.

To compile a foil file, you can use command `latex filename.tex`. It's better to use command `pdflatex filename.tex`.

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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.

Some Special Display Effects

To make the pdf start in full-screen mode, use

```
\usepackage[pdftex]{geometry}
```

and use macro `\hypersetup`. For example,

```
\hypersetup{
  pdftitle={Presentation using pdfLaTeX and \FoilTeX\, class},
  pdfsubject={How to make presentations with LaTeX},
  pdfauthor={Eugenia Yu and Weiliang Qiu,
    Department of Statistics,
    University of British Columbia},
  pdfkeywords={Presentations, LaTeX, FoilTeX, pdfTeX},
  pdfpagemode={FullScreen},   %make the pdf start in full-screen
                              %   mode
  linkcolor=cyan,             %make all the links cyan instead
  citecolor=cyan,             %   of red
  pagecolor=cyan,
  urlcolor=cyan
  }
```

Some Special Display Effects (Con't)

Effect of `\hypersetup{pdfpagetransition=Dissolve}`

To set dimensions for page layout in LaTeX is not straightforward. You need to adjust several LaTeX dimensions to place a text area where you want. If you want to center the text area in the paper you use, for example, you have to use specify LaTeX dimensions as follows:

```
\usepackage{calc}
\setlength{\textwidth{8in}}
\setlength{\textheight{11in}}
\setlength\oddsidemargin{(\paperwidth-\textwidth)/2 - 1in}
\setlength\topmargin{(\paperheight-\textheight
                      -headheight-\headsep-\footskip)/2 - 1in}
```

Without `calc` package, the above example would need more tedious setting. The `geometry` package provides an easy way to set page layout parameters. In this case, what you have to do is just

```
\usepackage[body={8in, 11in}]{geometry}.
```

Some Special Display Effects (Con't)

Effect of `\hypersetup{pdfpagetransition=Box}`

The package (`geometry`) will be also useful when you have to set page layout obeying the following strict instructions: for example:

> The total allowable width of the text area is 6.5 inches wide by 8.75 inches high. The first line on each page should begin 1.2 inches from the top edge of the page. The left margin should be 0.4 inch from the left edge.

In this case, using `geometry` package you can go

```
\usepackage[body={6.5in, 8.75in},
                  top=1.2in, left=0.4in, nohead]{geometry}.
```

To switch off the `pdfpagetransition`, use

```
\hypersetup{pdfpagetransition=Replace}
```

Hyperref Package

- The package `hyperref` derives from, and builds on, the work of the HyperTEX project, described at `http://xxx.lanl.gov/hypertex/`.
- It extends the functionality of all the LATEX cross-referencing commands (including the table of contents, bibliographies etc).
- It also provides new commands to allow the user to write ad hoc hypertext links, including those to external documents and URLs.

Hyperref Package (Con't)

Syntax:

- `\href{URL}{text}`

  Example: `\href{http://www.stat.ubc.ca}{Stat Dept., UBC}` $\Rightarrow$ Stat Dept., UBC

- `\hyperlink{name}{text}` and `\hypertarget{name}{text}`

  Example: `\hyperlink{mycolor}{Color Package}` $\Rightarrow$ Color Package.

  We define `\hypertarget{mycolor}{Color Package}` in the next page:

```
\foilhead[-0.5in]{\hypertarget{mycolor}{Color Package}}
```

Color Package

- `\usepackage[usenames]{color}`

  Here option `[usenames]` causes the definitions for the 68 colors known to dvips to be preloaded. E.g. `\textcolor{red}{red}` produces red.

- You also can define your own custom colors. For example: `\definecolor{DarkGreen}{rgb}{0.5,0.8,0.6}`

  This is DarkGreen

- To add background color and other special dispaly effects of PDF such as `pause`, we can use `ppower4`.