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Ground to Cover

Introduction and Philosophy

Basics: Your First HASS Paper

Math

Graphics and Tables

Thesis

Beamer

Resources

Why \LaTeX ?

Document Class

Environments

Preamble

Sections

Comments

Quotation marks

Font styles and sizes

Basics: Previewing and Printing

Two choices:

pdflatex

(e)latex + dvips

What's the difference?

`pdflatex <text>.tex` runs a special version of the \LaTeX interpreter that will generate `<text>.pdf` from your `.tex` file. **Downside:** doesn't support inclusion of PostScript images

`elatex + dvips`. **Downside:** more steps, gets confused by images that don't have "bounding boxes"

1. `elatex <text>.tex`
2. `xdvi <text>.dvi`
3. `dvips <text>.dvi` to print

Basics: Previewing and Printing

Useful flags:

-C *num*; prints *num* collated copies

`dvips -C 4 -Pcpline testfile.dvi`

-o *name*; prints to file *name*

`dvips -h -o classpaper.ps -Phomer2 testfile.dvi`

Basics: Warnings and Errors

What to ignore

What not to ignore

For in-line math mode, put '\$'s around the expression

To escape text within a mathematical expression, use `\mbox`

Graphics and Tables (and More)

Packages

Justification

Spanning

Placement

Graphics and Tables (and More)

Some other useful packages:

```
\usepackage{amssymb}
```

```
\usepackage{multicol}
```

```
\usepackage{graphicx}
```

```
\usepackage[left=1cm,top=2cm,right=1cm,nohead,nofoot]{geometry}
```

```
\usepackage[doublespacing]{setspace}
```

Graphics and Tables (and More)

BibTeX from the command line:

```
latex
```

```
bitex
```

```
latex
```

```
latex
```

Instructions:

<http://web.mit.edu/olh/Latex/thes-latex.html>

Locker:

[/mit/thesis/tex/](#)

<http://latex-beamer.sourceforge.net/>

SIPB's *Inessential Guide to L^AT_EX*, available in hardcopy in the office (W20-557) or online (<http://stuff.mit.edu/sipb/ilatex>)

Beamer tutorial:

web.mit.edu/rsi/www/pdfs/beamer-tutorial.pdf

Junior Lab template:

<http://web.mit.edu/8.13/www/writtensum.shtml>