1.3 LATEX and pdfLATEX capabilities

1.3.1 Overview

First you edit your source `.tex` file. In LATEX you compile it using the `latex` command to a `.dvi` file (which stands for device-independent). The `.dvi` file can be converted to any device-dependent format you like using an appropriate driver, for example `dvips`.

When producing `.pdf` files you should use `pdflatex`, which produces directly `.pdf` files out of `.tex` sources. Note that in the `.tex` file you may need to use some PDF specific packages.

For viewing `.tex` files use your favourite text editor, for viewing `.dvi` files under X Window System use `xdvi` command, `.ps` files can be viewed with `gv` (or `ghostview`) and `.pdf` files with `acroread`, `gv` or `xpdf`.

1.3.2 LATEX

A lot of examples can be found in this document.

You should also print

- `doc/latex/general/latex2e.dvi` and

- `doc/latex/general/lshort2e.dvi`

from your `tetex` distribution (usually in

- `/usr/share/texmf` or

- `/usr/lib/texmf/texmf`).

1.3.3 pdfLATEX

Consult `doc/pdftex/manual.pdf` from your `tetex` distribution for more details. Very useful informations can be found in the `hyperref` and `graphics` package manuals:

- `doc/latex/hyperref/manual.pdf` and

- `doc/latex/graphics/grfguide.dvi`.

1.3.4 Examples

References

MIMUW

Hyperlinks

This is a target.
And this is a link.

Dashes, etc.

There are three kinds of horizontal dash:

- - (use inside words; for example "home-page", "X-rated")

- – (use this one between numbers; for example "pages 2–22")

- — (use this one as a sentence separator — like here)

National characters

- ó, é, í, . . .

- è, à, ì, . . .

- ô, ê, . . .

- õ, ñ, . . .

- ö, ë, . . .

- ż

- ą, ę

- ł, ø, ß

There are other ways to do this, see the documentation for `inputenc` package.

Reserved characters

Some characters have some special meaning, thus cannot be entered in the usual way.

- $ & % # _ { }

- \

- ˜ ˆ

Math

- 1^2, 1^{2n}, ...

- i_1, i_{2n}, ...

- $\frac{1}{2}$, $\frac{2n}{2-3}$, ...

- α, β, γ, Ω, ...

- $\rightarrow$, $\Rightarrow$, $\geq$, $\neq$, $\in$, $\star$, ...

- $\sqrt{2}$, ...

- $\overline{2+2}$, ...

For more examples and symbols see chapter 3 of `lshort2e.dvi`.

Fonts

- Roman

- *Emphasis*

- Medium weight — the default

- **Boldface**

- Upright

- *Slanted*

- Sans serif

- SMALL CAPS

- `Typewriter`

- and sizes:

    - tiny

    - scriptsize

    - footnotesize

    - small

    - normalsize

- large
- Large
- LARGE
- huge
- Huge