Preamble

Generate Documents – Windows

Tom Schenk Jr.

`tls007@drake.edu`

Drake University

This Presentation

- Generating documents from source code.

- Using T$_E$XnicCenter.

- Outputting to DVI in DOS.

- Outputting to PostScript in DOS.

- Outputting to PDF in DOS.

Generating Documents

- Documents can be generated in two ways: from a program and from DOS.

- Generating documents in a LaTeX program is very easy.

- Generating documents in DOS is a bit more complicated, but more powerful.

Using TeXnicCenter

- A drop–down menu can be used to choose the output format (DVI, PDF, and PS for PostScript).

- Use "Build Output" (F7) when working with a project and "Build Current File" (Ctrl + F5) when working with a single file.

- "View Output" (F5) will display the compiled document.

- The Build menu offers more build options that will be used later in the tutorial.

Using DOS - Review

- If LaTeX is installed, but TeXnicCenter is not, you must use DOS.

- For Windows 2000 and Windows XP, access DOS through the Start Menu → Run, then type "cmd."
  - Do not use "command," this does not show appropriate file names.

- Alternatively, you may access Run with Windows Key + R.

Using DOS - Review (con't)

- `dir` will display a list of files and folders in that directory.

- `cd folder` will open the subfolder.

- `cd..` will return you up a level, `cd\` will return to the root level (e.g. C:\).

DOS: Outputting to DVI

- Find the directory where the source file (.tex file) is located.

- `latex` *filename* will output the document to DVI.
    - Omit the .tex extension.

- It will notify the user if there are warnings or errors.
    - Note the error so you may return to the file and correct it.

DOS: Outputting to PostScript

- After creating a DVI, `dvips` transforms it to PostScript.
- Options are invoked with `dvips -option filename`
  - `-t a4` will output to the A4 format.
  - `-A` will print only odd pages, `-B` will print even only.
  - A list of options can be accessed with `dvips`.

DOS: Outputting to PDF

- There are two ways of creating PDFs in DOS: pdfLaTeX and ps2pdf.

- `pdflatex` *`filename`* can transform the .tex file directly to PDF.

- The downside is that it will not include bookmarks and if you use encapsulated postscripts for images, compiling may fail.

- In other words, pdfLaTeX works for basic documents.

- The other option is `ps2pdf` *`filename`*`.ps`, which translates the PostScript (.ps) to PDF.

- You must include the .ps after the filename.

Review

- T_EXnicCenter is the easiest way to compile documents.

- DVI, PostScript, and PDFs can be created in DOS.

- `latex` *filename* will output to DVI.

- `dvips` *filename* generates a PostScript document.

- `pdflatex` *filename* or `ps2pdf` *filename*`.ps` will make a PDF document.