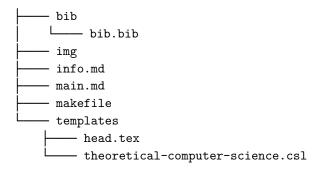
Exercises - 0

Setting up a Typesetting system

The current workflow uses:

- Pandoc (https://pandoc.org/installing.html, v. 3.1.11.1),
- LATEX(or, actually, xelatex) (https://www.latex-project.org/get/),
- makefiles (that are native to Unix systems, but can be ported in windows using Cygwin)

The typical file hierarchy is:



Where

- bib.bib is a file containing references, using the bibtex formatting, often used with LATEX.
- img/ contains potential images loaded in the main document,
- info.md contains some meta-data and instructions for the formatting (they could be in main.md as well, it is just to keep that later file as small as possible, and to be able to re-use this templating easily),
- makefile gives instructions on how to generate .tex and .pdf files from main.md, using commands such as

```
pandoc --pdf-engine=xelatex --metadata-file=info.md \
--citeproc -M date="`date "+%B %e, %Y"`" \
--include-in-header templates/head.tex $< -o $@</pre>
```

that means:

- Tell pandoc to process main.md (the \$< parameter, which denotes in makefile the source we need to construct what we are constructing),
- using XeLaTeX as the pdf engine,
- using info.md for the metadatas,
- using citeproc (which is a filter that process the bibliographical references),
- setting the date to be the value returned by the command date "+%B %e, %Y" (so, the current date, formatted nicely),
- including in the header the file templates/head.tex
- and outputting into a file called main.pdf (the \$@ parameter, which denotes in makefile what we are constructing).
- templates/head.tex contains some LaTeXtweaking (primarily about the sections, some unicode characters and the appareance of the links),

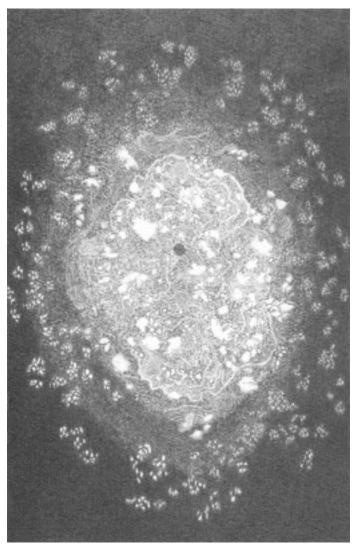
• templates/theoretical-computer-science.csl is the Citation Style Language file, that explains how references should be displayed. Since this is very field-sensitive, many different formatting exist, and we pick the one for theoretical computer science.

If you install entr, you can also use make watch that will automatically re-compile main.md into main.pdf whenever main.md is modified (that is, edited and saved).

Important: Note that this details the organization of the current folder (exercises_0) but that the overall repository is organized a bit differently, to avoid duplicating the bib and template files.

Examples

Here is a reference [1], and here is an image, courtesy of Jérôme Minard:



References

[1] C. Aubert, Categories for Me, and You?, Augusta University, 2019. https://hal.science/hal-02308858.