

Tools and tips

Notes worth remembering

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github

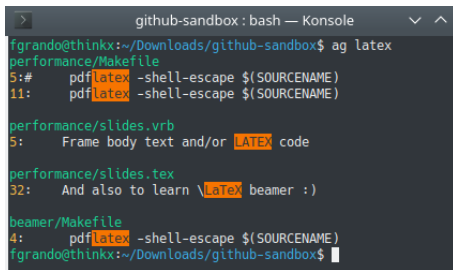
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- 1 Motivation
- 2 silversearcher-ag
- 3 pdftotext
 - convertPdfToTxt.bat
- 4 From SVN to GIT
- 5 Assign version numbers to sw
- 6 Message Sequence Chart (`mscgen`)

I create this file to keep track of interesting tools and some tips learned along the way.
And also to learn \LaTeX beamer :)

`ag` is like `grep` or `ack`. Very useful for searching terms in documentation and code. Installation:

- Linux: `apt install silversearcher-ag`
- Windows: <https://blog.kowalczyk.info/software/the-silver-searcher-for-windows.html>



```
github-sandbox: bash — Konsole
fgrando@thinkx:~/Downloads/github-sandbox$ ag latex
performance/Makefile
5:#      pdflatex -shell-escape ${SOURCENAME}
11:      pdflatex -shell-escape ${SOURCENAME}

performance/slides.vrb
5:      Frame body text and/or LATEX code

performance/slides.tex
32:      And also to learn \LatEX beamer :)

beamer/Makefile
4:      pdflatex -shell-escape ${SOURCENAME}
fgrando@thinkx:~/Downloads/github-sandbox$
```

Extract text from PDF files.

There is also other outputs (pdftohtml, etc...)

Linux: `apt install poppler-utils`

Windows: <https://www.xpdfreader.com/download.html>

Script to convert all PDF files in the directory to TXT.

```
@echo off
for /r %%i in (*.pdf) do (
    echo %%i
    pdftotext "%%i" "%%i.txt"
)
```

Useful commands:

- `[svn|git] commit -m "first commit"`
- `[svn|git] diff <file>`
- `svn revert <file>`
 - `git checkout <file>`

How to assign version numbers to my sw?

Use semver: <https://semver.org/>

Given a version number `MAJOR.MINOR.PATCH`, increment the:

- `MAJOR` version when you make incompatible API changes,
- `MINOR` version when you add functionality in a backwards compatible manner, and
- `PATCH` version when you make backwards compatible bug fixes.

Message Sequence Chart (mscgen)

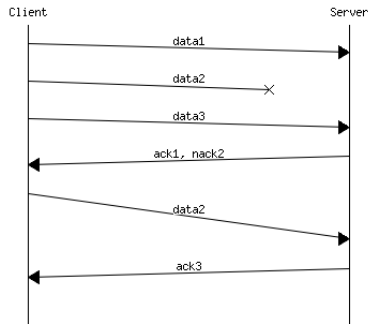
Full featured message chart generator (like graphviz):

<http://www.mcternan.me.uk/mscgen/>

```
# Fictional client-server protocol
msc {
  arcgradient = 8;

  a [label="Client"], b [label="Server"];

  a=>b [label="data1"];
  a-xb [label="data2"];
  a=>b [label="data3"];
  a<=b [label="ack1, _nack2"];
  a<=b [label="data2", arcskip="1"];
  a<=b [label="ack3"];
  |||;
  a<=b [label="ack3"];
  |||;
}
```



End

The end.