

Tools and tips

Notes worth remembering

Fernando

github

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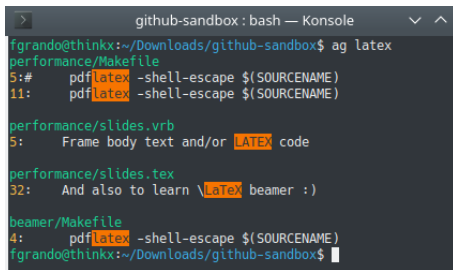
Topics

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- 5 Assign version numbers to sw
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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>

A terminal window titled 'github-sandbox : bash — Konsole' showing the output of the command 'ag latex'. The output lists files containing the word 'latex' in a tree-like structure. The files are: 'performance/Makefile' (lines 5 and 11), 'performance/slides.vrb' (line 5), 'performance/slides.tex' (line 32), and 'beamer/Makefile' (line 4). The word 'latex' is highlighted in orange in the original image. The terminal prompt is 'fgrando@thinkx:~/Downloads/github-sandbox\$'.

Extract text from PDF files. TODO

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)

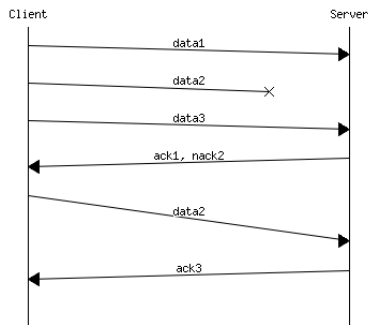
Full featured message chart generator (like graphviz):

<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.