L07 Maintenance

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Maintenance

1 Maintenance

2 Meeting
- Recapitulation
- Assignments
- Preview

Learning Outcomes

After successful completion of L05
students will be able to use techniques to

- maintain FLOSS initiatives

Releases

- main communication to the “outside world”
- tag which version to use (e.g. when some feature is ready)
- points in time when to test, package and announce

Release Notes

- communicate what changed
- say thanks to contributors
- give incentive to try out the latest version
- give maintainers hints how to package
- communicate API changes to developers

Release Schema

If possible, avoid them, e.g. use date as release number.
If you want to convey some semantic meaning, like:

- compatibility in APIs (major.minor.micro)
- stable/unstable branches (even/odd, alpha/beta) or LTS

then a different release schema might make sense.

Licensing

- choose one license for your whole initiative
- if you copy code from others:
  - it either has the same license
  - it has a compatible license AND you document all licenses you use (reuse.software)

Source Releases

- tar the source code
- sign the tar ball

$\rightarrow$ gets less important
distributions now also pull from version control

Binary Releases

important if you need to directly publish to end users:

- compile on some old distributions and tar the binaries
- flatpack, homebrew, 0install

Linux Distributions

- packages maintained by the distributions
- can be considerable effort, so it is good if you can help by reporting:
  - which licenses are used (reuse)
  - which dependencies are needed
  - which files are installed

Continuous Releases

Automate:

- which installed files were added/removed
- publishing release notes on web-site
- creating and publishing packages
- tests
- generate version-specific information (like tested compilers)

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Recapitulation.

Feedback

- Feedback Talk

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