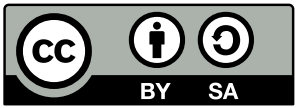
L10 Open Standards

Markus Raab

Institute of Information Systems Engineering, TU Wien

This work is licensed under a Creative Commons *"Attribution-ShareAlike 4.0 International"* license.



Open Standards

1 Open Standards

2 Meeting

Learning Outcomes

After successful completion of L10 Open Standards students will be able to

- facilitate open standards.

Standard First

- start with user or dev-facing docu (man pages, ...)
- think of alternative implementations from the beginning
- don't be afraid to also decide (sizes, data structure)
  e.g. for portability and performance

Levels of Standardisation

- Filesystem or file content
- Network protocol
- APIs and ABIs
- screen content

KISS, several reference implementations

Compatibility

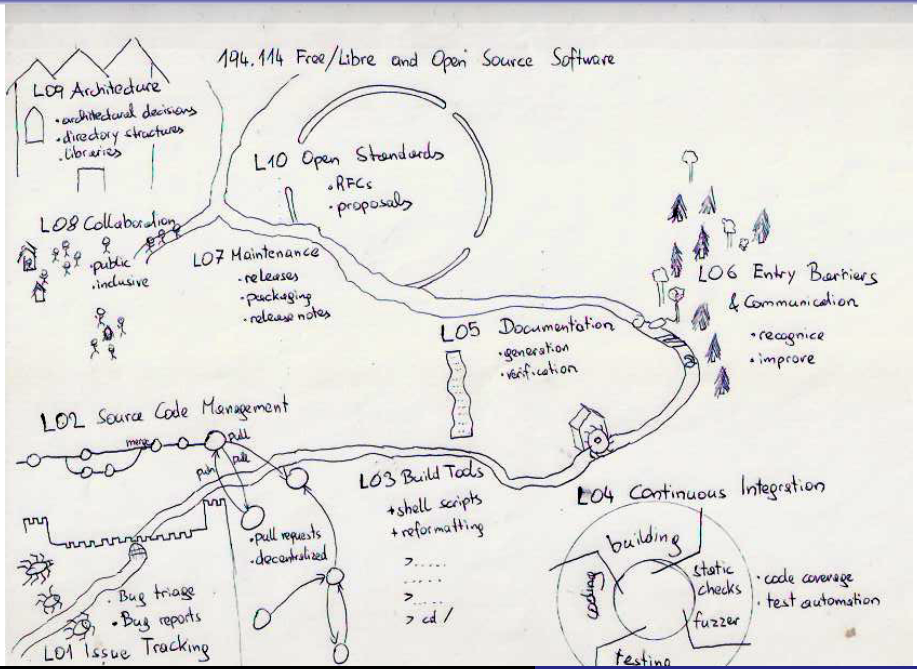
- semantics shouldn't change for the life-time of the standard
- users want to rely on standards

Testing

- does an implementation comply to an standard?
- e.g. HTML, documents: is the rendering result the same

Examples

- POSIX
- SANE
- gstreamer
- Elektra
- D-Bus
- Freedesktop.org

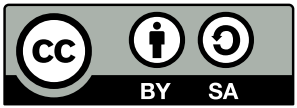

194.114 Free/Libre and Open Source Software
L09 Architecture
•architectural decisions
•directory structures
•libraries
L10 Open Standards
•RFCs
•proposals
L08 Collaboration
•public
•inclusive
L07 Maintenance
•releases
•packaging
•release notes
L06 Entry Barriers & Communication
•recognice
•improve
L05 Documentation
•generation
•verification
L02 Source Code Management
merge
pull
push
pull
•pull requests
•decentralized
L03 Build Tools
+shell scripts
+reformatting
> .....
.....
> .....
> cd /
L04 Continuous Integration
building
coding
static checks
fuzzer
testing
•code coverage
•test automation
•Bug triage
•Bug reports
L01 Issue Tracking

L10 Open Standards

Markus Raab

Institute of Information Systems Engineering, TU Wien

This work is licensed under a Creative Commons *"Attribution-ShareAlike 4.0 International"* license.



Meeting

1 Open Standards

2 Meeting