

SCM concepts

- who knows SCM ? 2 min recap
- brief history of OpenSource SCMs
- centralised vs distributed
- brief history of GIT

GIT quick start

- repository, staging and local copy
- local user identity
- GIT configuration
- local GIT lifecycle

GIT concepts

- SHA-1 hashing and commits
- trees
- snapshots and references
- tags
- signature and annotated tags

Branching and type of merge

- when to branch ?
- explicit and implicit branches
- merge vs rebase vs cherry-pick

GIT peer-to-peer

- Anarchy
- Dictatorship
- Enable GIT repository serving
- Managing remotes
- Push / Fetch / Pull
- Collaborating via e-mail

GIT democracy

- Central repository model
- Stable / Exp / Integration branch
- Topic branch model
- Promotion: dictatorship vs. democracy

- GitHub model

GIT Server

- Public or private ?
- Serviced or locally hosted ?
- What protocol ? (GIT / HTTP / SSH)
- GitHub
- GITEnterprise

Gitosis

- Gitosis set-up
- Managing users and groups
- Permissions

The Google way

- Gerrit concepts
- Code-review workflow
- Gerrit set-up
- Gerrit projects and groups
- Permissions