GIT workshop

SCM concepts
- sho 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