

# GIT



Jonas Linde <[jonas@init.se](mailto:jonas@init.se)>

# Background

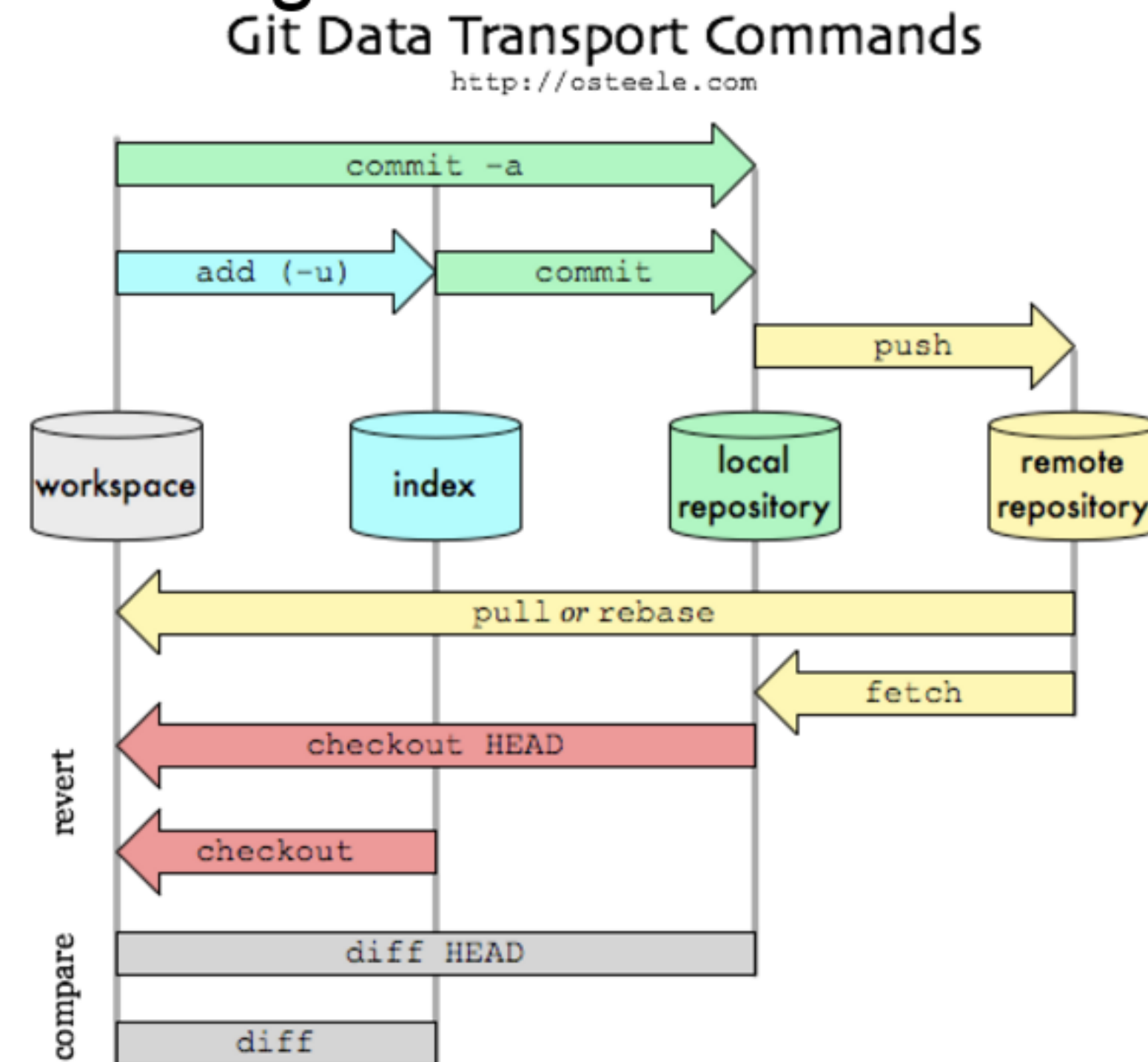
- for the Linux kernel
- speed
- distributed
- cheap merges
- BitKeeper is doing it right
- CVS and Subversion is doing it wrong

# Objects

- files (blob)
- directories (tree)
- commits
- tags

# Data flow

- working directory = HEAD + uncommitted changes
- index = staged files



# Remotes

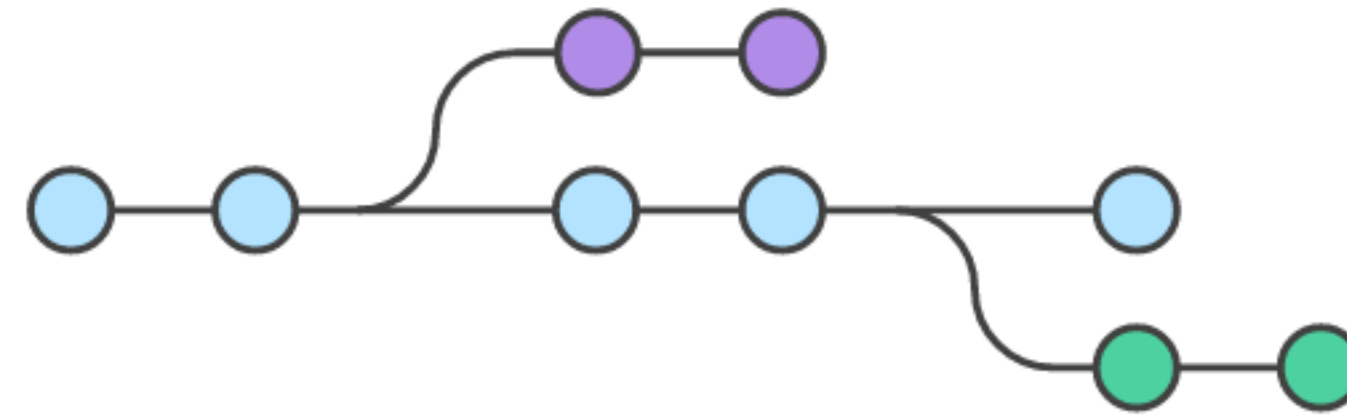
- clone
- remote add
- fetch
- pull
- push

# Work flow

- pull
  - fetch + merge
  - fast-forward
- change files
- add/rm/mv/stage
- commit
  - rebase
  - reset (<https://xkcd.com/1597/>)
- push

# Branches

- branch
- tag
- checkout



# Conflicts

- merge
- fix
- add
- commit