

Git

Distributed Version Control System

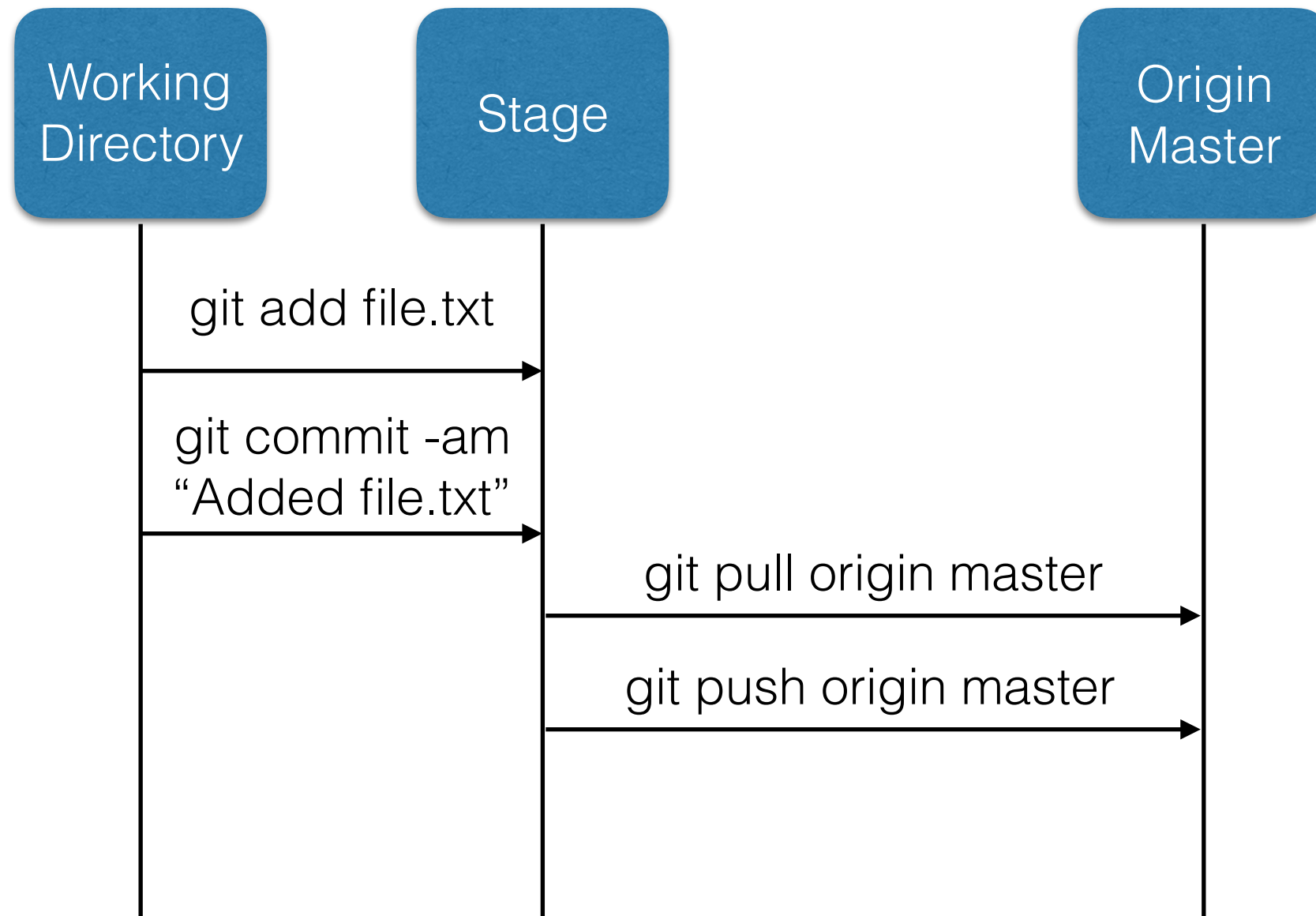
Why?

- History - full history of all changes made to the project (and by who)
- Traceability - making changes visible
- Identification - link changes to things (eg, link changes to issues or specific developer)
- Branching/Merging - work on features concurrently

Essential commands

- `git init`
- `git clone <your-repository>`
- `git pull origin master`
- `git push origin master`
- `git add <file-you-want-to-add>`
- `git commit -am "<Enter a useful commit message>"`

Git workflow (simplified)



Other useful commands

- `git status`
- `git log`
- `git diff <commit-1-sha> <commit-2-sha>`
- `git tag -a <tag-name>`
- `git branch <new-branch-name>`
- `git checkout <branch-name>`
- `git merge <branch-name>`

Resources

- Git book
- Online tutorial:
 - <https://try.github.io/>
- Git GUI Tools:
 - SourceTree
 - GitKraken