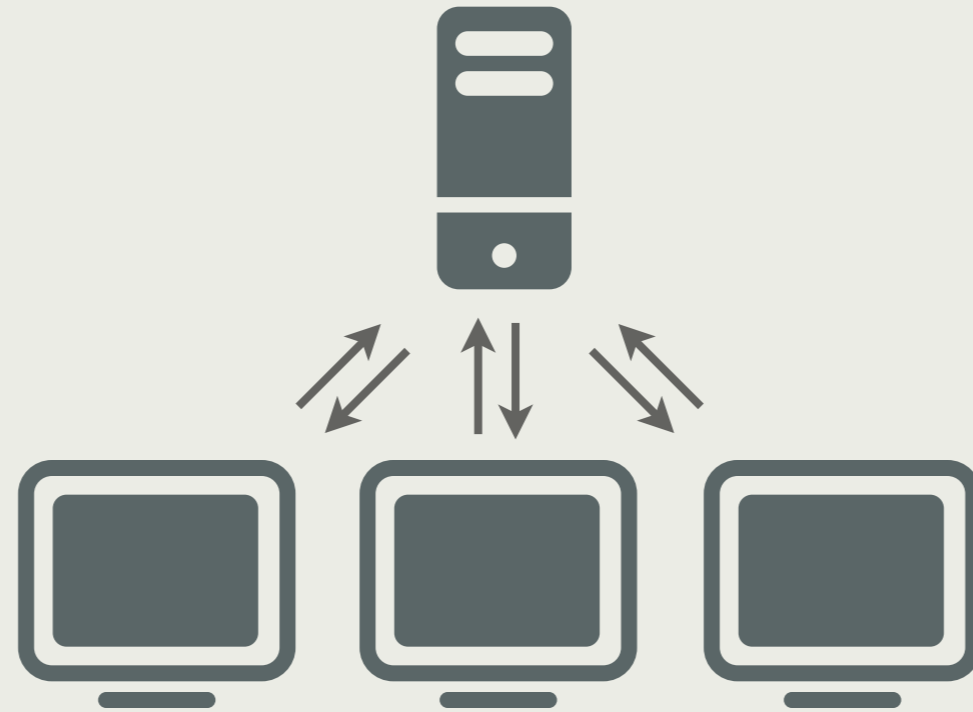


Git Basics

version control

noun Computing

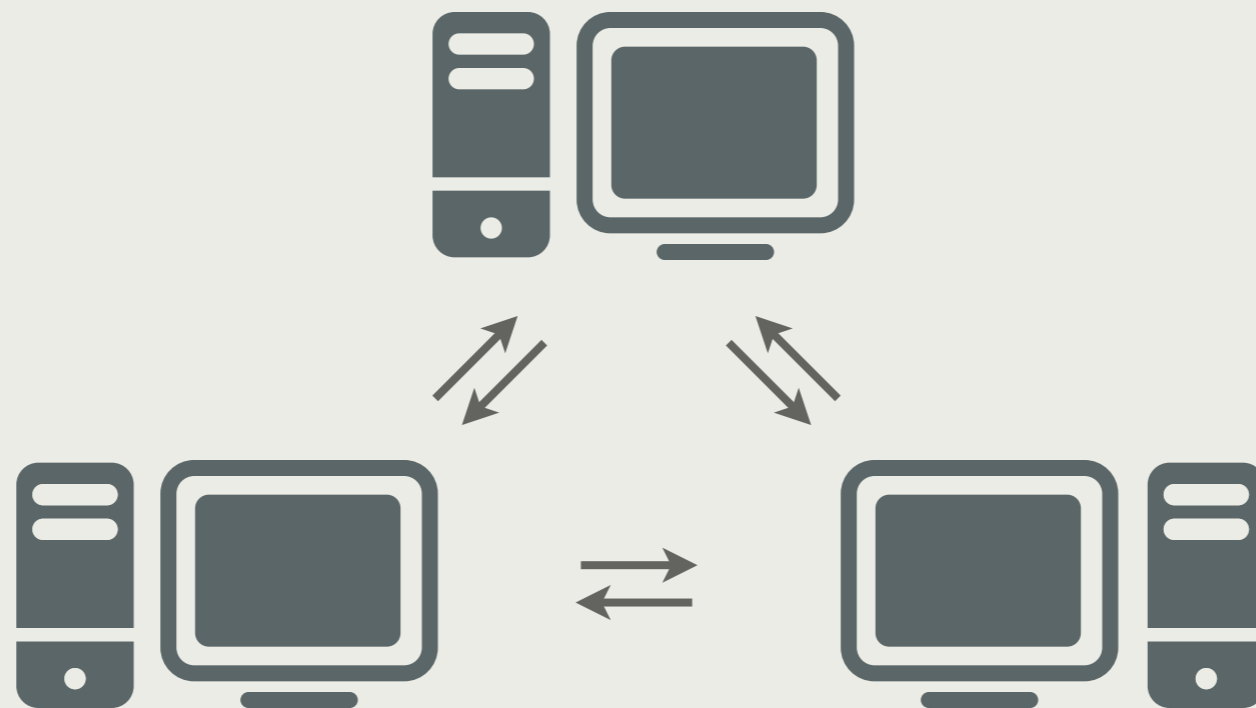
the task of keeping a software system consisting of many versions and configurations well organised.



Centralised
(e.g. Subversion)

1 source of truth

1 point of failure



Distributed
(e.g. Git, Mercurial)

No 1 source of truth

No 1 point of failure

Commmmands

(for day-to-day activities)

init

clone

add

commit

remote

push

stash

revert

log

branch

checkout

merge

Staging

(the fundamental git concept)



Helping Hands

(log, diff & status)

log

Show commit logs

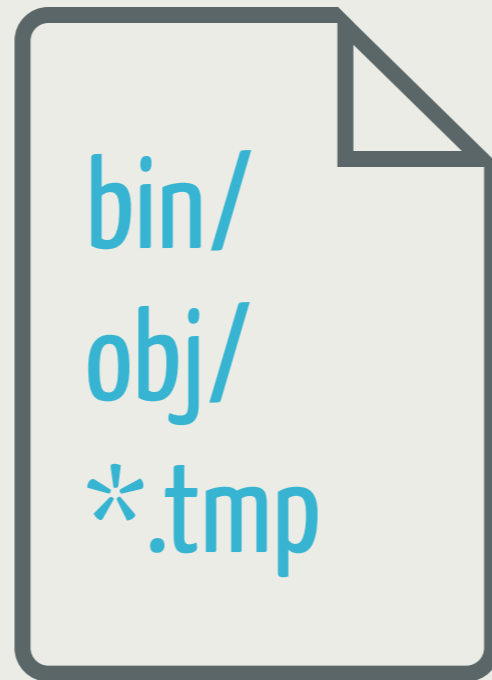
diff

Show changes between commits

status

Show the working tree status

.gitignore
(excluding files you don't need)



.gitignore

Workflows

(super simple, happy path git usage)

Create or copy a repo

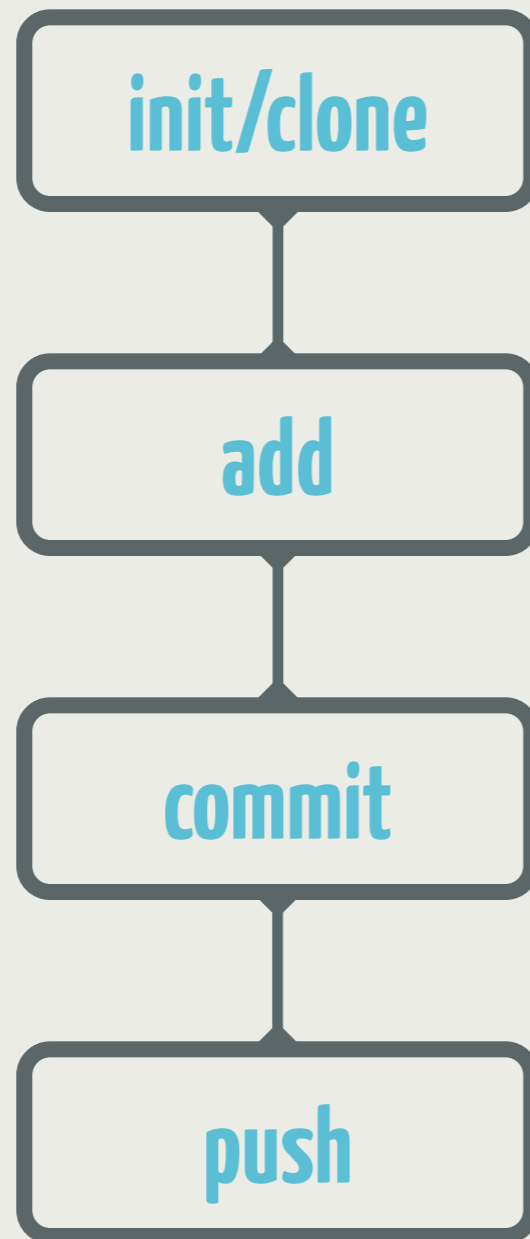
Committing code

Pulling code

Pushing code

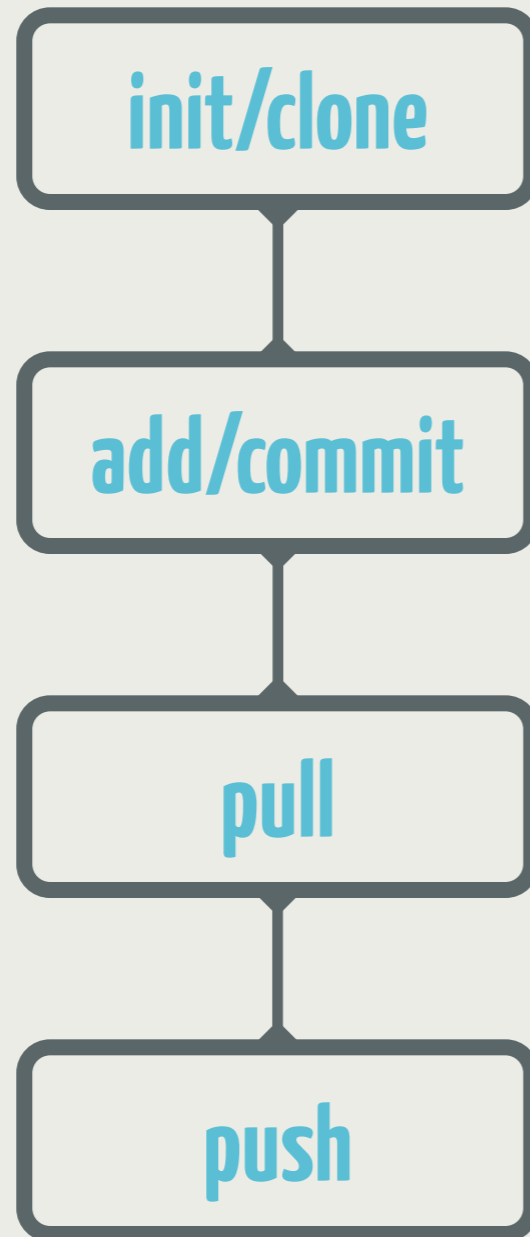
Feature branches

Backing out changes



Super Simple Git Workflow

For the lone wolf



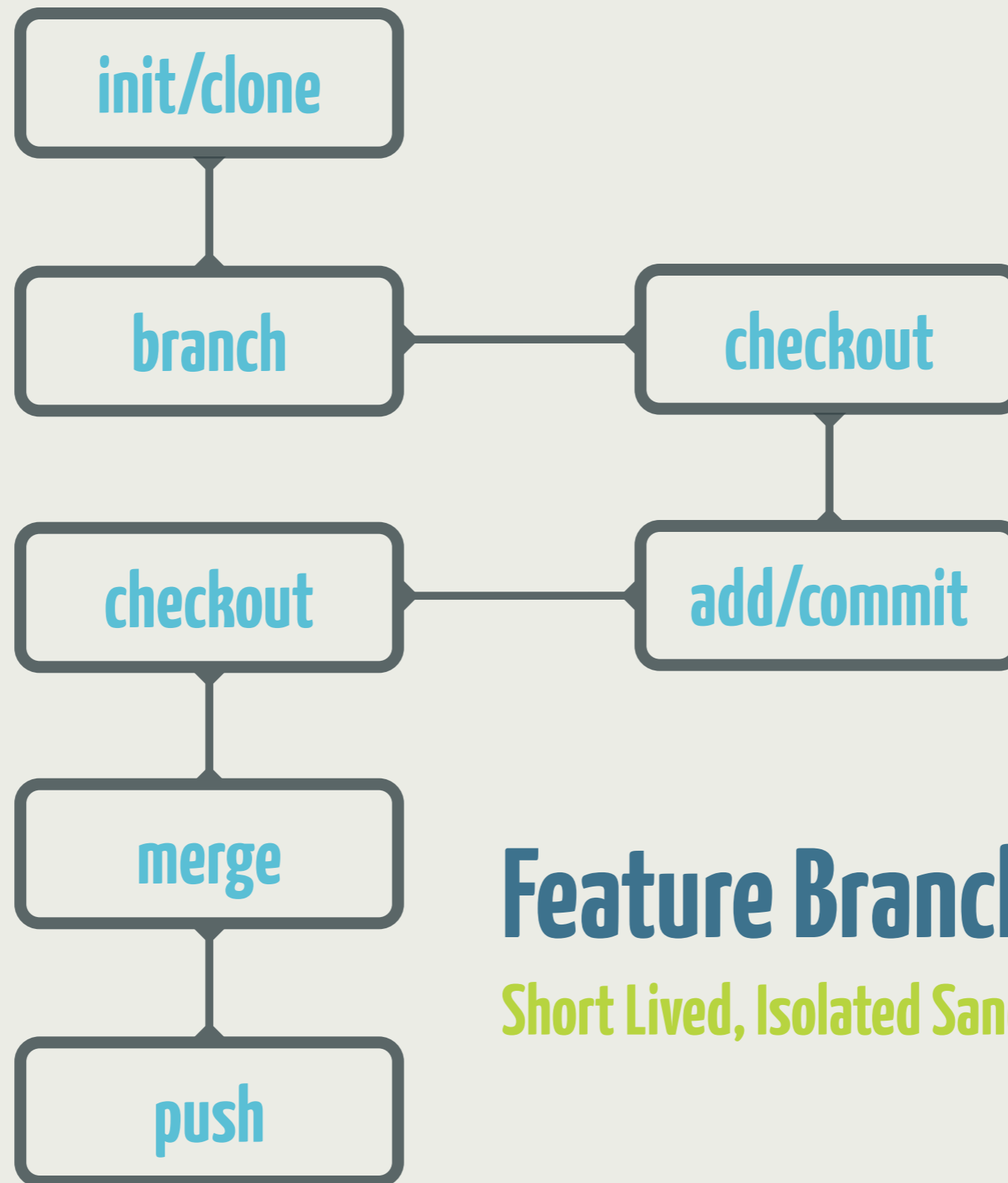
Super Simple Team Workflow

For the hyper agile team



Team Workflow

Pulling mid-commit



Feature Branches

Short Lived, Isolated Sandboxes

Undoing Changes

(checkout, reset & revert)

`checkout <file>`

Revert uncommitted changes

`reset HEAD <file>`

Revert staged changes

`revert HEAD`

Revert committed changes

/Git Basics