

GIT KLASJE

@TRUE

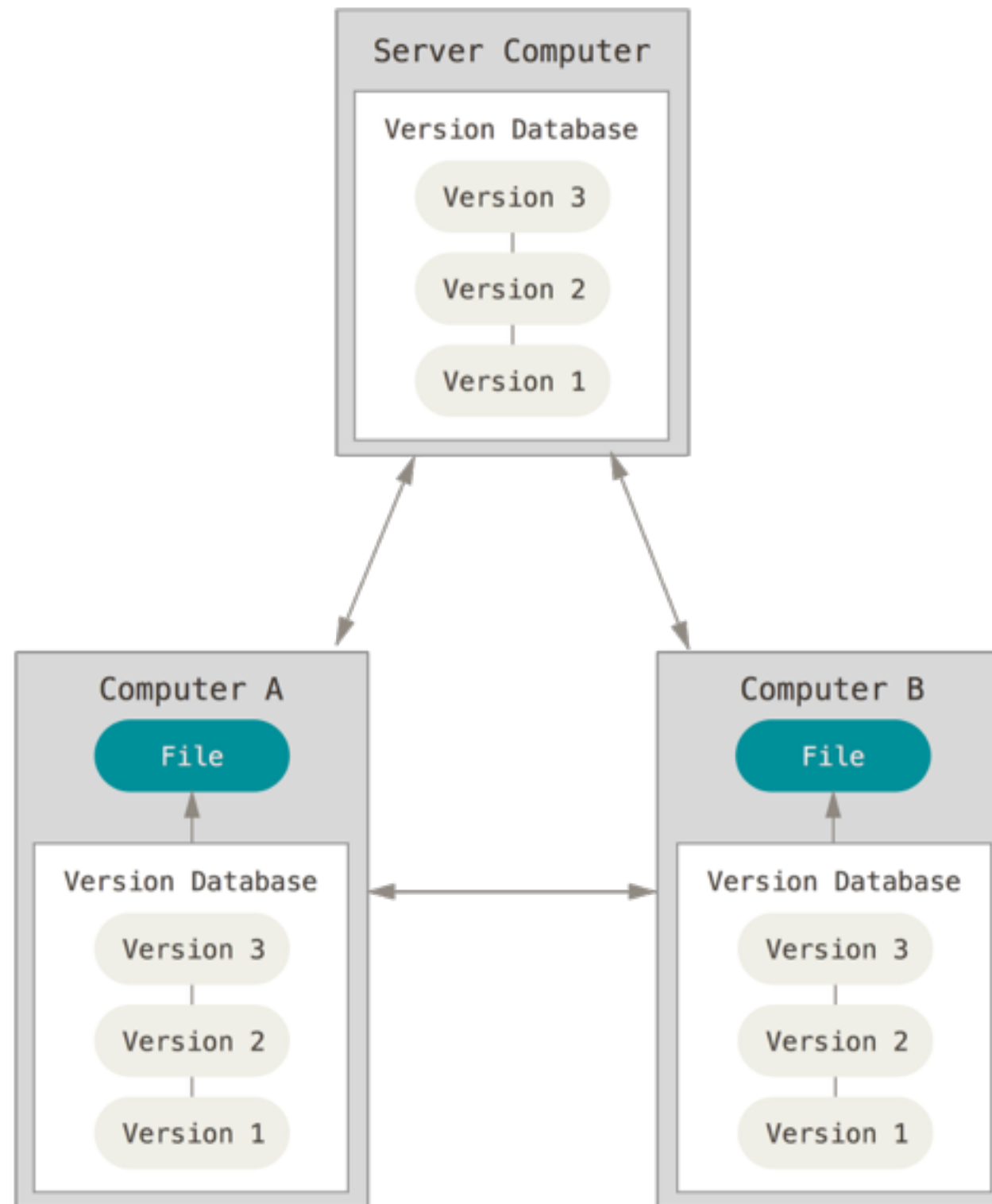
INTRODUCTIE IN GIT

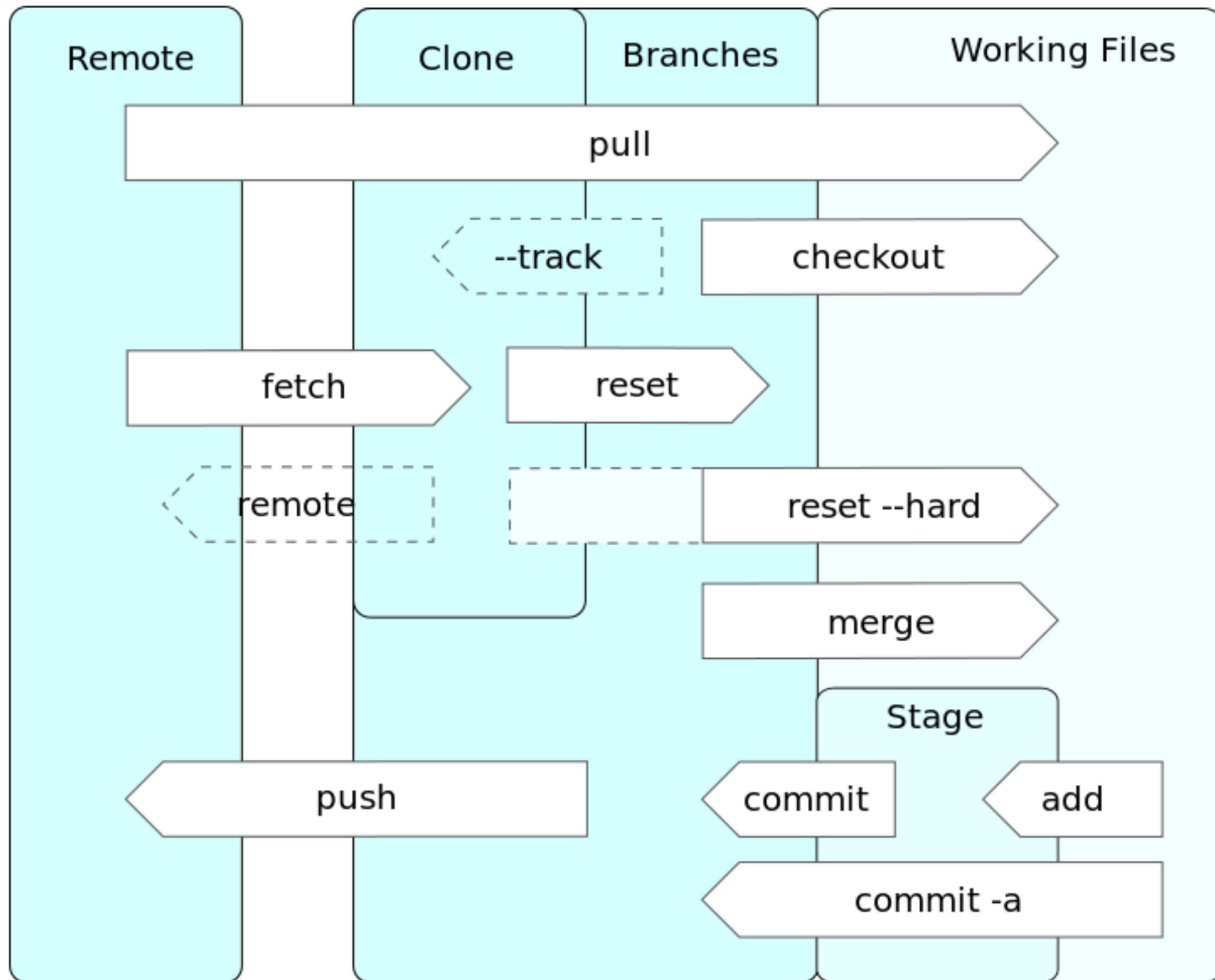
- ▶ Distributed revision control
- ▶ 2005
- ▶ Linus Torvalds

**USING FOLDER NAMES FOR
VERSION CONTROL WORKS
FOR ME**

me, 10 years ago

DISTRIBUTED

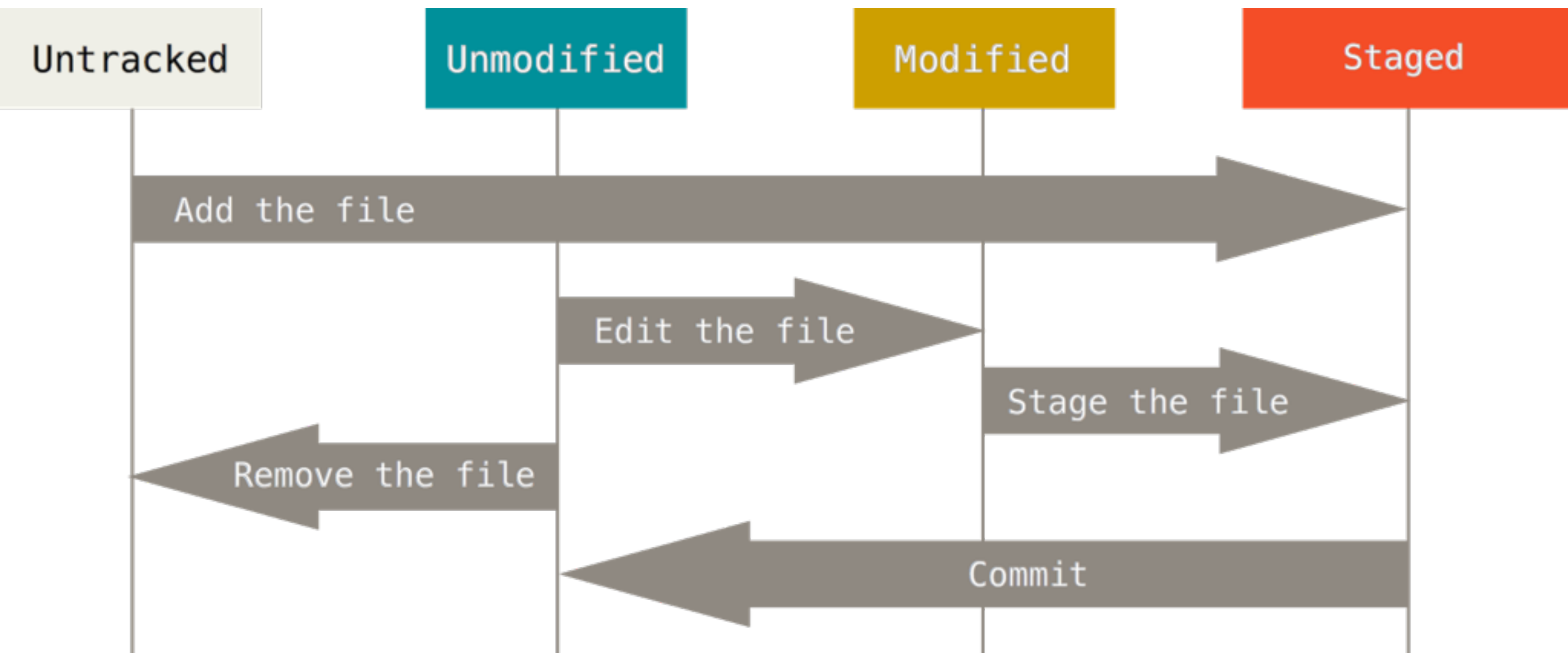




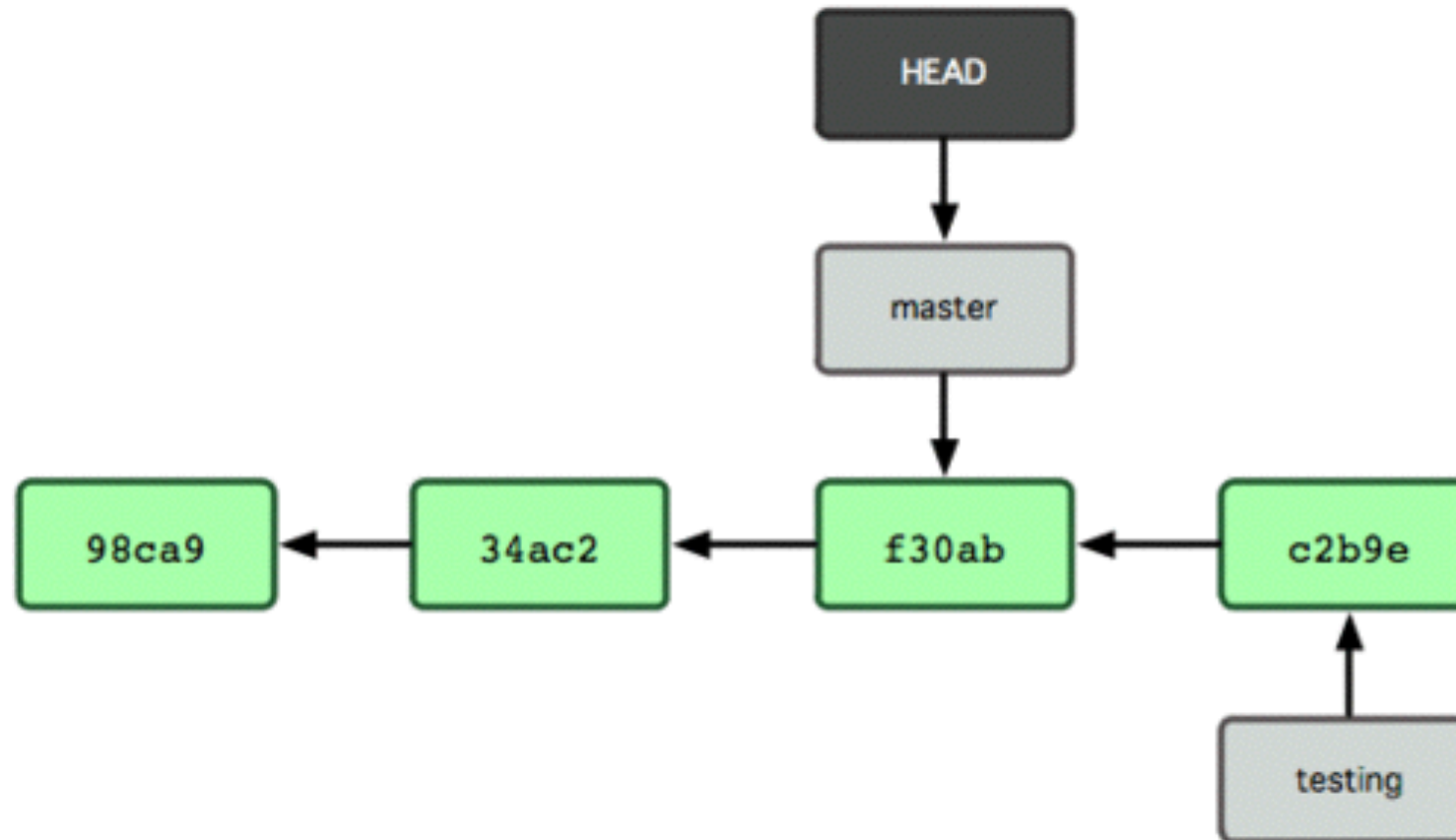
By Daniel Kinzler - Own work, CC BY 3.0

<https://commons.wikimedia.org/w/index.php?curid=25223536>

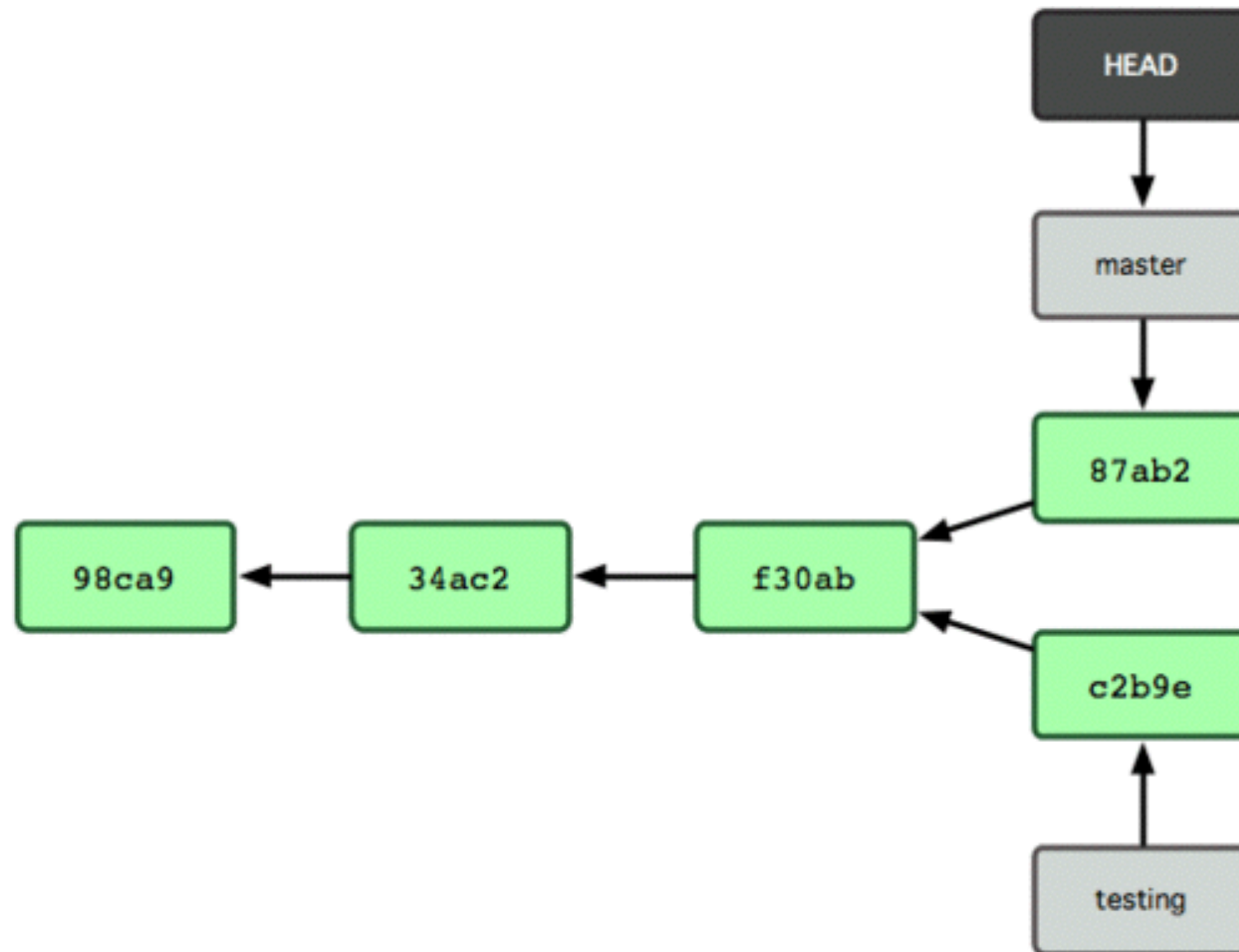
STAGING FILES



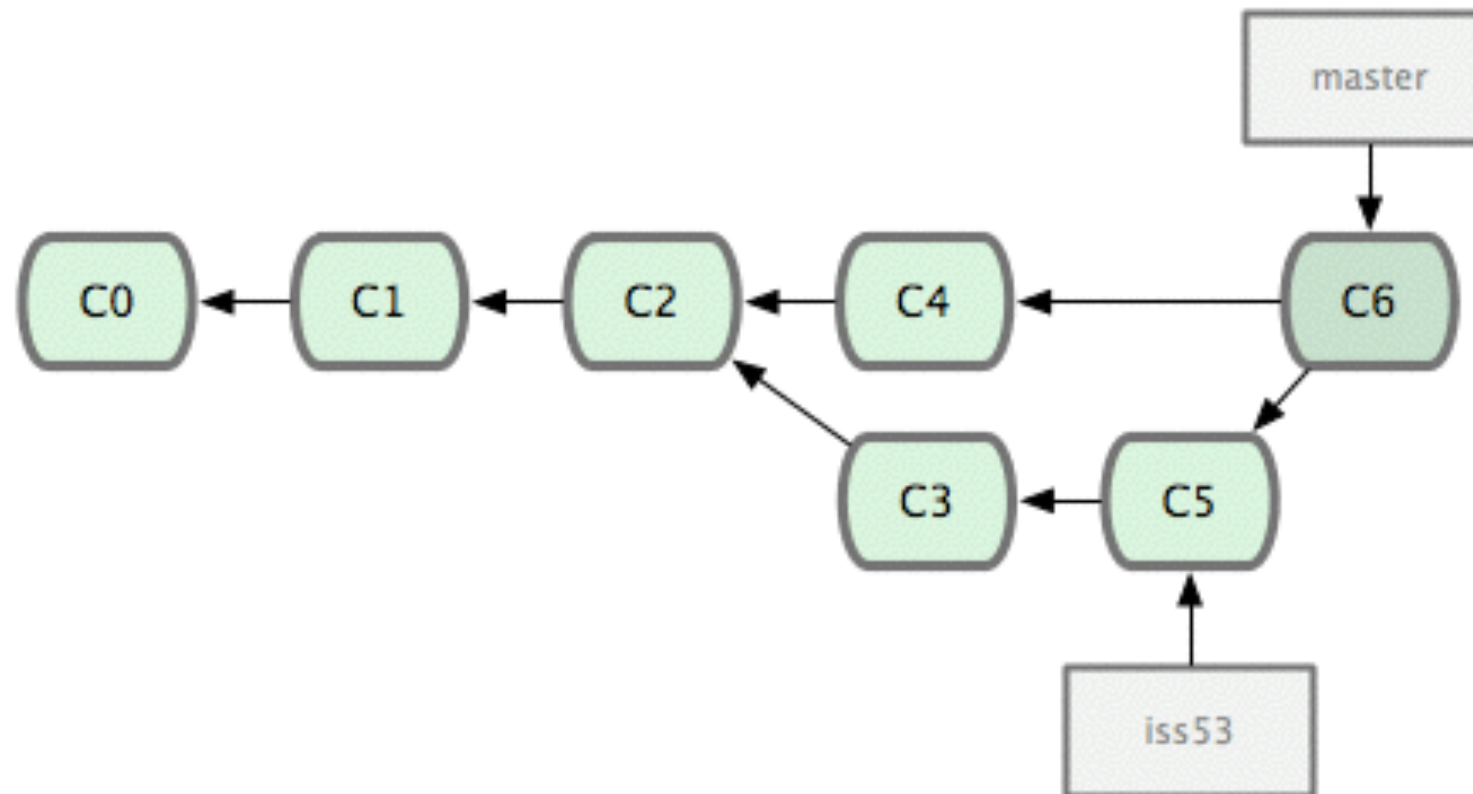
BRANCHES



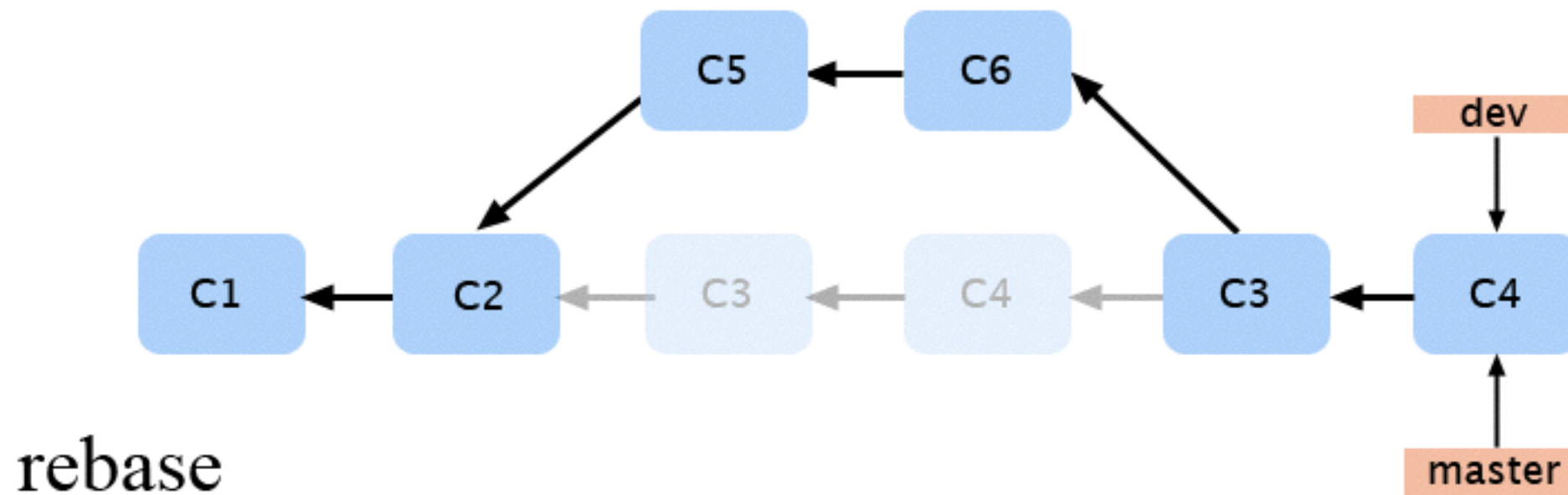
BRANCHES



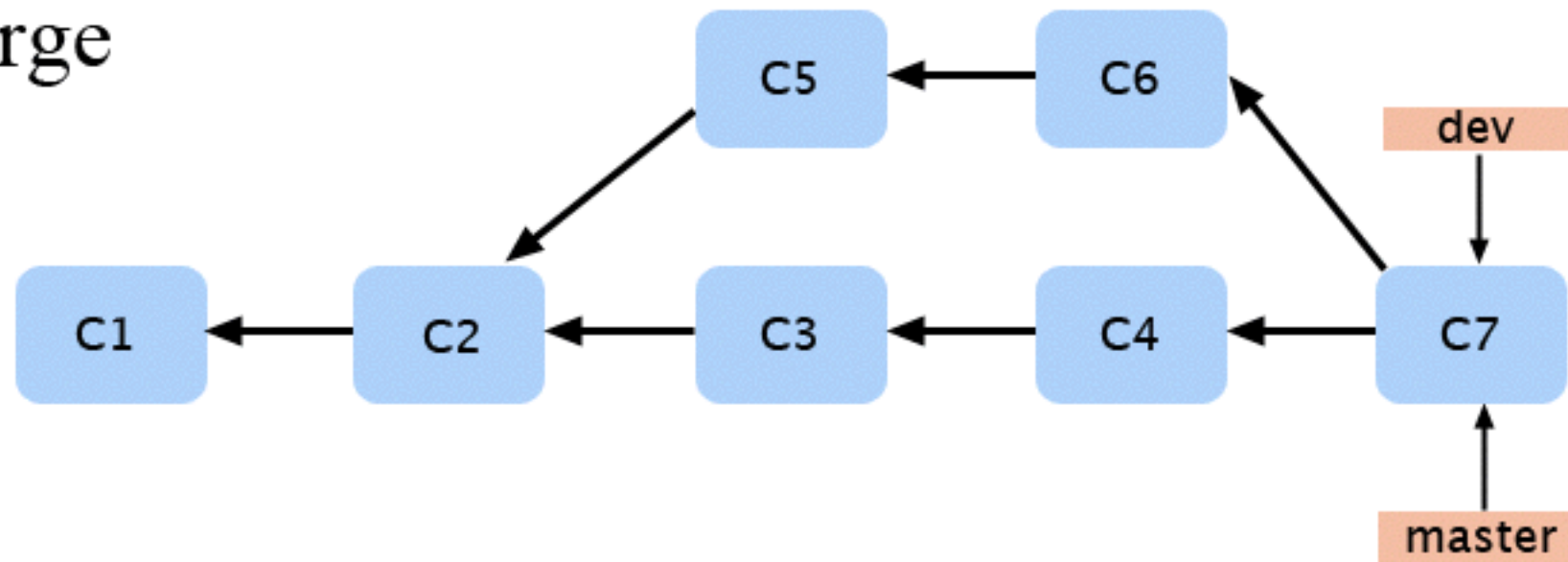
MERGING



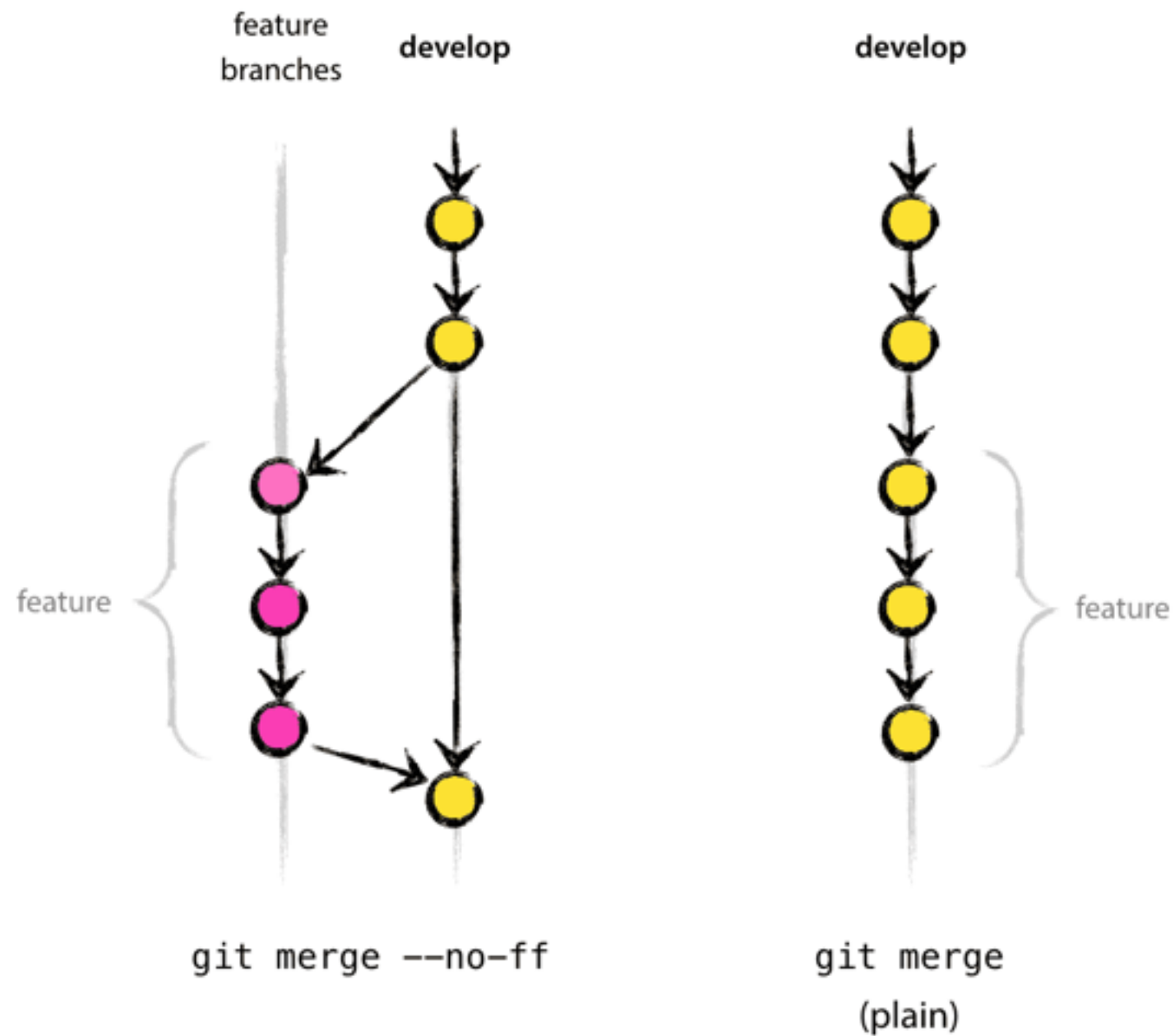
MERGE VS REBASE

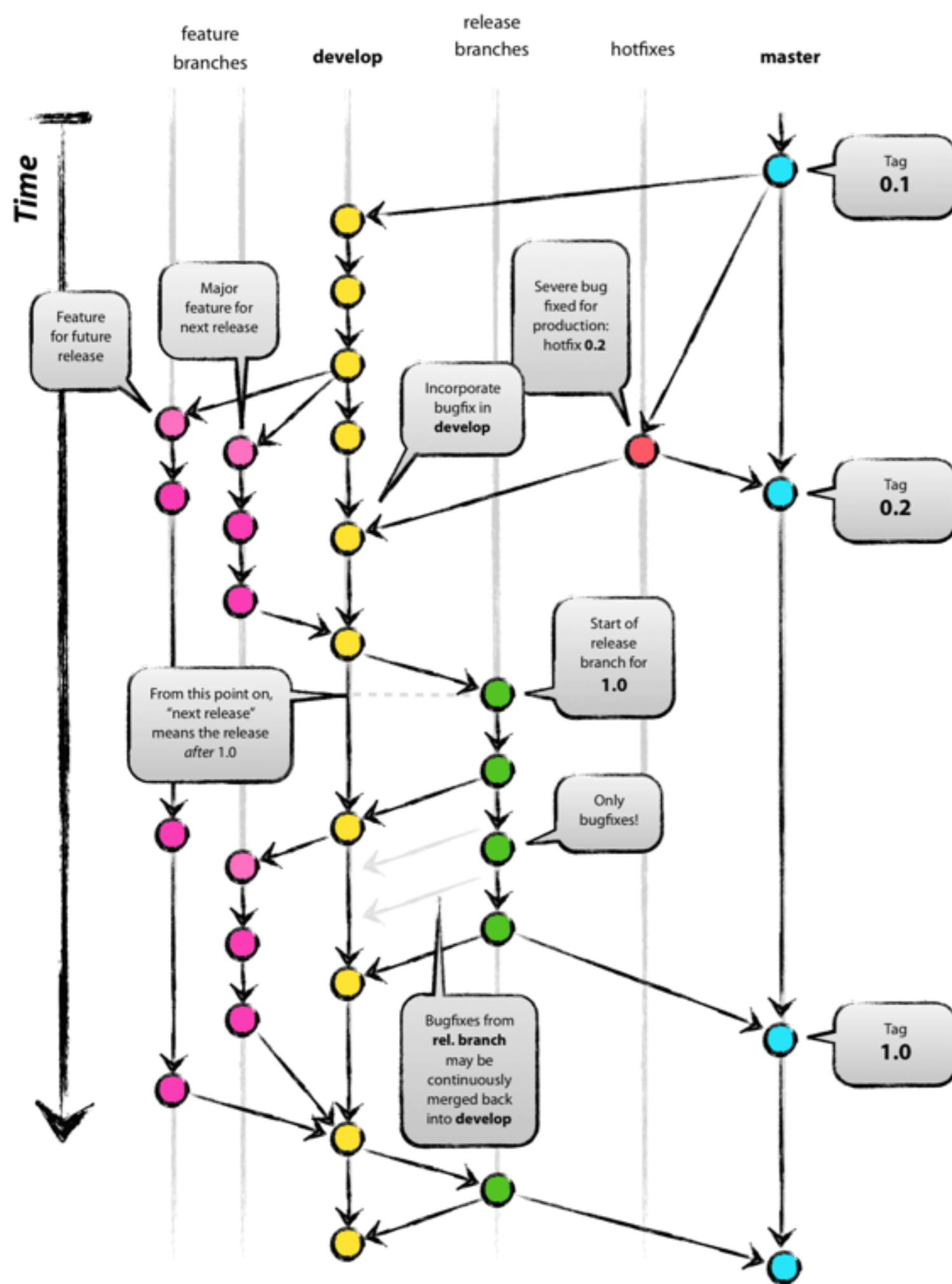


merge



FAST FORWARD MERGE





HOSTED GIT

- ▶ GitHub
- ▶ Bitbucket
- ▶ Gitlab

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

INIT

init

clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ mkdir gitklasje
```

```
$ cd gitklasje/
```

```
$ git init
```

```
Initialized empty Git repository in /Users/marc/gitklasje/.git/
```

CLONE

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git clone git@github.com:ceeram/reponame.git destinationname
Cloning into 'destinationname'...
remote: Counting objects: 168, done.
remote: Total 168 (delta 0), reused 0 (delta 0), pack-reused 168
Receiving objects: 100% (168/168), 22.50 KiB | 0 bytes/s, done.
Resolving deltas: 100% (56/56), done.
Checking connectivity... done.
```

STATUS

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git status
```

```
On branch master
```

```
Your branch is up-to-date with 'origin/master'.
```

```
nothing to commit, working directory clean
```

STATUS

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ touch README.md
```

```
$ git status
```

On branch master

Initial commit

Untracked files:

(use "git add <file>..." to include in what will be committed)

README.md

nothing added to commit but untracked files present (use "git add" to track)

ADD

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git add README.md
```

```
git status
```

On branch master

Initial commit

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

```
new file: README.md
```

RM

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git rm --cached README.md
```

```
$ git status
```

On branch master

Initial commit

Untracked files:

(use "git add <file>..." to include in what will be committed)

README.md

DIFF

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git diff --cached
diff --git a/README.md b/README.md
new file mode 100644
index 0000000..805cf6f
--- /dev/null
+++ b/README.md
@@ -0,0 +1,3 @@
+# GIT klasje
+
+### READ ME
\ No newline at end of file
```

CONFIG

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git config --global user.name "John Doe"
```

CONFIG

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git config -l
credential.helper=osxkeychain
user.name=Marc Ypes
user.email=c33ram@gmail.com
core.excludesfile=/Users/marc/.gitignore_global
core.repositoryformatversion=0
core.filemode=true
core.bare=false
core.logallrefupdates=true
core.ignorecase=true
core.precomposeunicode=true
```

RESET

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git reset
```

```
$ git reset --hard
```

```
$ git status
```

On branch master

Initial commit

Untracked files:

(use "git add <file>..." to include in what will be committed)

README.md

COMMIT

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git commit
```

```
$ git commit -m "Initial commit with README"
```

```
[master (root-commit) 8459ed4] Initial commit with README
```

```
1 file changed, 3 insertions(+)
```

```
create mode 100644 README.md
```

CHECKOUT

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git checkout -b feature-name
```

```
Switched to a new branch 'feature-name'
```

LOG

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git log -1
```

```
commit 8459ed42fd960a5c8c1399c1492c027b40b6d5d5
```

```
Author: Marc Ypes <c33ram@gmail.com>
```

```
Date: Tue Apr 5 12:40:34 2016 +0200
```

```
Initial commit with README
```

```
$ git log --pretty=oneline
```

```
8459ed42fd960a5c8c1399c1492c027b40b6d5d5 Initial commit with  
README
```

```
$ git log --author='Marc Ypes'
```

BRANCH

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git branch  
* feature-name  
master
```

```
git branch -v  
* feature-name 8459ed4 Initial commit with README  
master      8459ed4 Initial commit with README
```

```
$ git branch -a  
* feature-name  
master
```

MERGE

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git commit -m "Expanding readme"  
[feature-name f191297] Expanding readme
```

```
$ git branch -v  
* feature-name f191297 Expanding readme  
master      8459ed4 Initial commit with README
```

```
$ git checkout master  
Switched to branch 'master'
```

MERGE

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git merge feature-name
```

```
Updating 8459ed4..f191297
```

```
Fast-forward
```

```
README.md | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)
```

```
$ git branch -v
```

```
feature-name f191297 Expanding readme
```

```
* master      f191297 Expanding readme
```

REBASE

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git commit -m "More readme"
```

```
[master bf74f6a] More readme
```

```
1 file changed, 1 insertion(+), 1 deletion(-)
```

```
$ git checkout feature-name
```

```
Switched to branch 'feature-name'
```

```
$ git branch -v
```

```
* feature-name f191297 Expanding readme
```

```
master      bf74f6a More readme
```

REBASE

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git rebase master
```

First, rewinding head to replay your work on top of it...

Fast-forwarded feature-name to master.

```
$ git branch -v
```

```
* feature-name bf74f6a More readme
```

```
master      bf74f6a More readme
```

STASH

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git stash
```

Saved working directory and index state WIP on feature-name:

bf74f6a More readme

HEAD is now at bf74f6a More readme

```
$ git stash pop
```

On branch feature-name

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

REMOTE

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git remote add remotename git@github.com:renan/reponame.git
```

```
$ git remote -v
```

```
remotename      git@github.com:renan/reponame.git (fetch)
```

```
remotename      git@github.com:renan/reponame.git (push)
```

PULL

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git pull renan master
```

```
$ git pull origin master
```

PUSH

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git push -u origin master
```

TAG

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git tag v1.0
```

SUBMODULE

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git submodule add
```

```
$ git submodule update --init
```

BISECT

init
clone
status
add
rm
diff
config
reset
commit
checkout
log
branch
merge
rebase
stash
remote
pull
push
tag
submodule
bisect

```
$ git bisect bad  
$ git bisect good v1.0  
$ git bisect bad
```

CONFIGURATION

- ▶ `$ git config --global user.name "John Doe"`
- ▶ `$ git config --global user.email johndoe@example.com`
- ▶ `$ git config --global core.editor vim`
- ▶ `color.ui`
- ▶ `core.autocrlf`

.GITIGNORE

```
$ cat .gitignore
```

```
/vendor/  
composer.phar  
*.sqlite  
app/test/all.js  
*.log*
```

QUESTIONS?

DEMO