

Basics

Configuration

git config --global user.name "Jan Kowalski"

git config --global user.email kowalski@gmail.com

git config --global core.editor "code --wait" //Ustawienie domyślnego IDE

git config --global core.autocrlf true (input – Mac, Linux) //Ustawienie auto-commit'owania LF
(koniec linii)

Initializing a repository

git init

Stage files

git add file1.js //Stages a single file1

git add file1.js file2.js //Stages multiple files

git add *.js //Stages all files with extension "js"

git add Dir1/* //Stages all files in directory "Dir1"

git add . //Stages all the modifications in current directory

View the status of the repository

git status //Full status

git status -s //Short status

Committing the staged files

git commit -m "Message" //Commits with a one-line message

git commit //Opens the default editor to type a long message

Skipping the staging area

git commit -am "Message"

Removing files

`git rm file1.js` //Removes file from working directory and staging area (index)

`git rm --cached file1.js` //Removes from staging area only

Viewing the staged/unstaged changes

`git diff` //Shows unstaged changes

`git diff --staged` //Shows staged changes

`git diff --cached` //Same above

Viewing the history

`git log` //Full history

`git log --oneline` //Summary

`git log --reverse` //Lists the commits from the oldest to the newest

Viewing a commit

`git show 92a2ff` //Shows the given commit

`git show HEAD` //Shows the last commit

`git show HEAD~2` //Two steps before the last commit

`git show HEAD:file.js`

Unstaging files (undoing git add)

`git restore --staged file.js`

Discarding local changes

`git restore file.js`

`git restore file1.js file2.js`

`git restore .`

`git clean -fd`

Restoring an earlier version of a file

```
git restore --source=head~2 file2.js
```

Viewing the history

```
git log --stat
```

```
git log --patch
```

Filtering the history

```
git log -3
```

```
git log --author="mosh"
```

```
git log --before="2020-01-01"
```

```
git log --after="one week ago"
```

```
git log --grep="gui"
```

```
git log -s "gui"
```

```
git log hash1..hash2
```

```
git log file.txt
```

Viewing a commit

```
git show head~2
```

```
git show head~2:file1.txt
```

Comparing commits

```
git diff head~3 head
```

```
git diff head~3 head file.txt
```

Checkout out a commit

```
git checkout dad47ed
```

```
git checkout master
```

Finding a bad commit

git bisect start

git bisect bad

git bisect good ca49180

git bisect reset

Finding contributors

Git shortlog

Viewing the history of a file

git log file.txt

git log --stat file.txt

git log --path file.txt

Finding the author of lines

git blame file.txt

Tagging

git tag v1.0

git tag v1.0 5e7a828

git tag

git tag -d v1.0

Managing branches

git branch bugfix

git checkout bugfix

git switch bugfix

bug switch -c bugfix

Git branch -d bugfix

Comparing branches

git log master..bugfix

git diff master..bugfix

Stashing

git stash push -m "changed login"

git stash list

git stash show stash@{1}

git stash show 1

git stash apply 1

git stash drop 1

git stash clear

Git merging

git merge bugfix

git merge --no-ff bugfix

git merge --squash bugfix

git merge --abort

Viewing the merged branches

git branch --merged

git branch --no-merged

Rebasing

git rebase master

Cloning a repository

git clone url

Syncing with remotes

git fetch origin master

git fetch origin

git fetch

git pull

git push origin master

git push

Sharing tags

git push origin v1.0

git push origin -delete v1.0

Sharing branches

git branch -r

git branch -vv

git push -u origin bugfix

git push -d origin bugfix

Managing remotes

git remote

git remote add upstream url

git remote rm upstream