

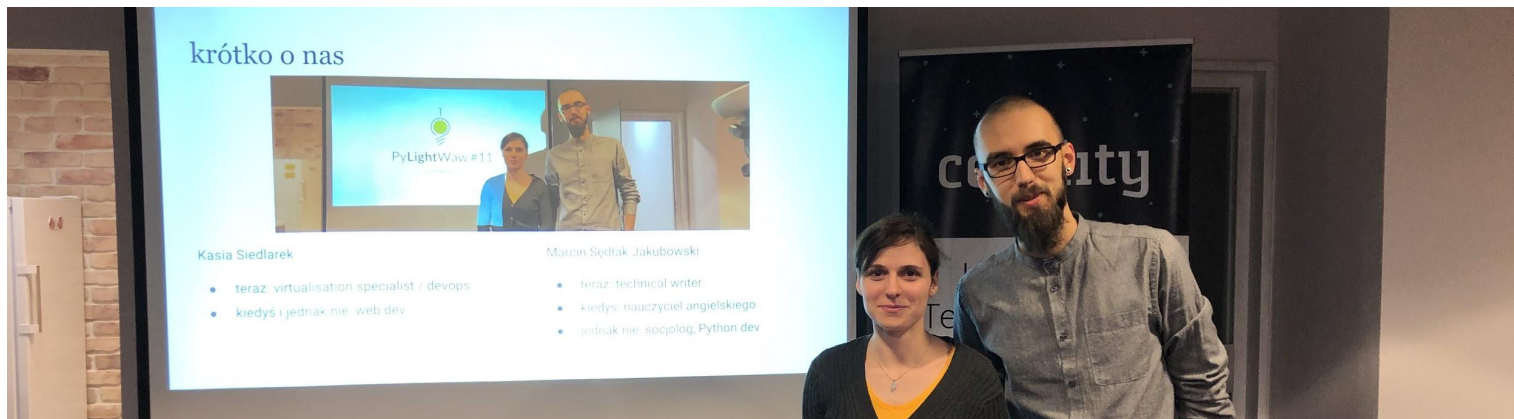
[Obejrzyj na YouTube](#)

# git – wprowadzenie

[Kasia Siedlarek](#)  
[Marcin Sędlak-Jakubowski](#)

PyLight #11, 12.02.2019

# krótko o nas

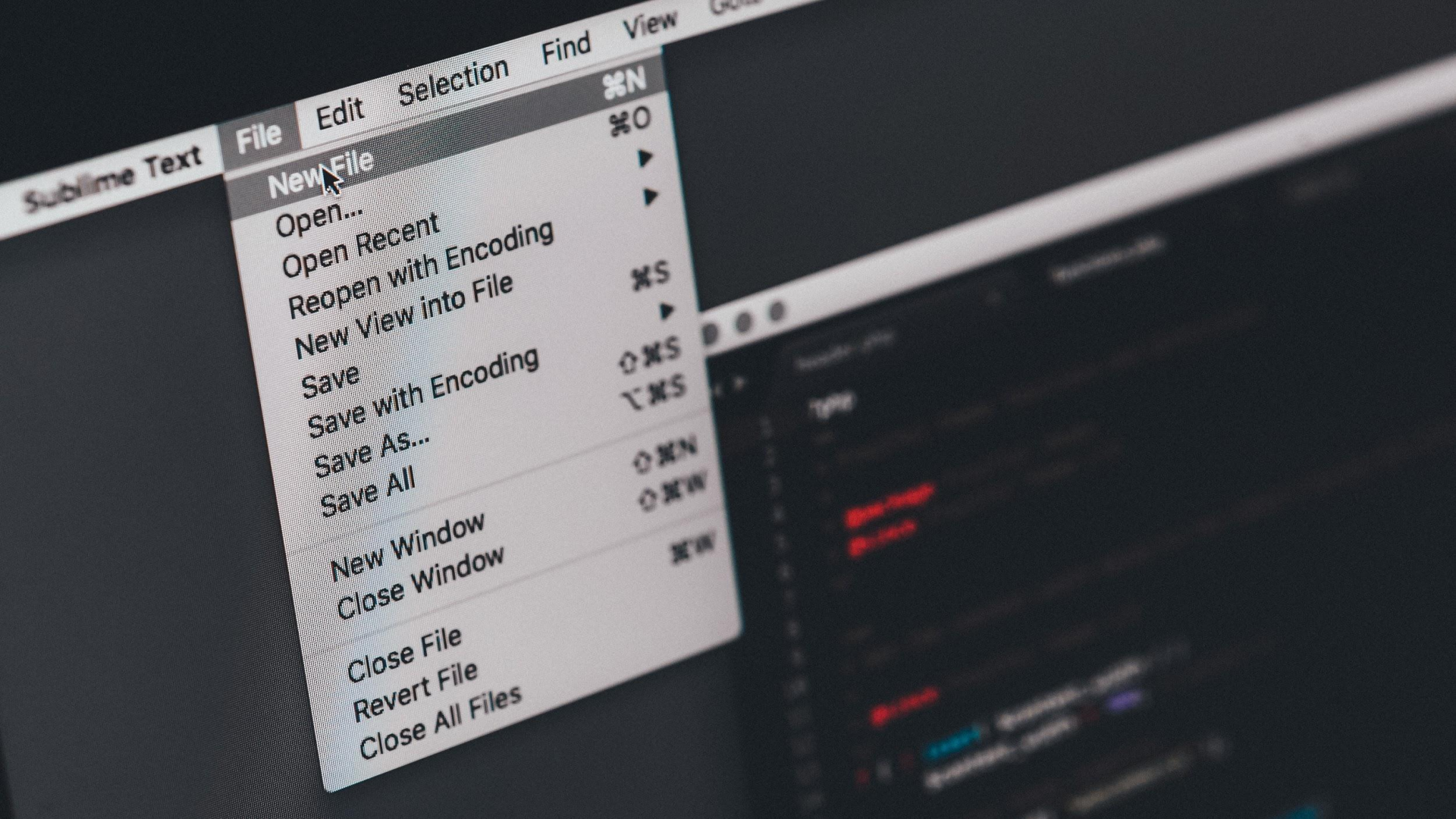


## Kasia Siedlarek

- teraz: virtualisation specialist / devops
- kiedyś i jednak nie: web dev

## Marcin Sędłak-Jakubowski

- teraz: technical writer
- kiedyś: nauczyciel angielskiego
- jednak nie: socjolog, Python dev



Sublime Text

File

Edit

Selection

Find

View

Go

New File

Open...

Open Recent

Reopen with Encoding

New View into File

Save

Save with Encoding

Save As...

Save All

New Window

Close Window

Close File

Revert File

Close All Files

⌘N

⌘O

⌘S

⌘⇧S

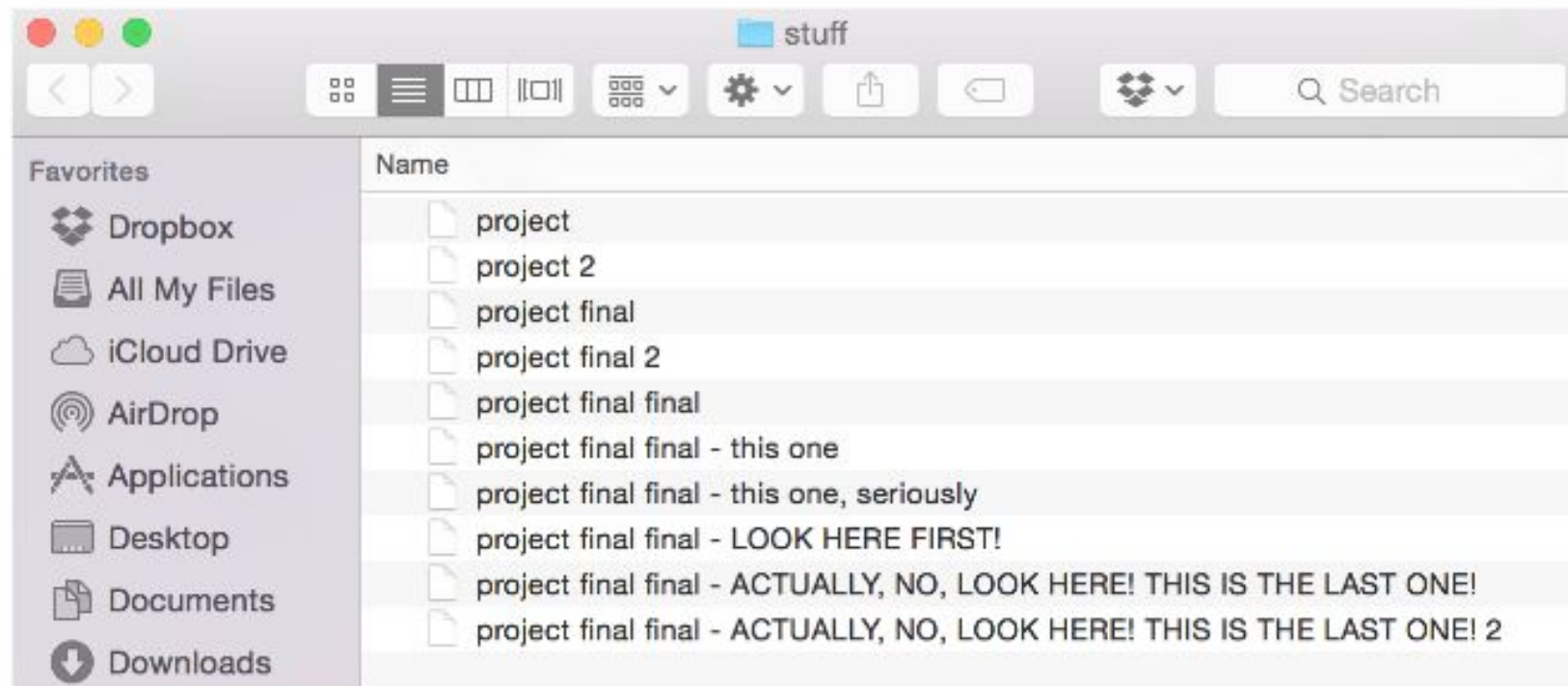
⌘⇧S

⌘⇧N

⌘⇧W

⌘⇧W

# The Only Naming Convention That Works



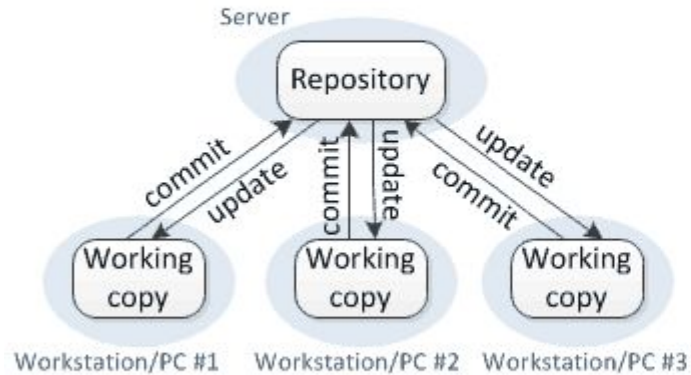


# na ratunek: systemy kontroli wersji

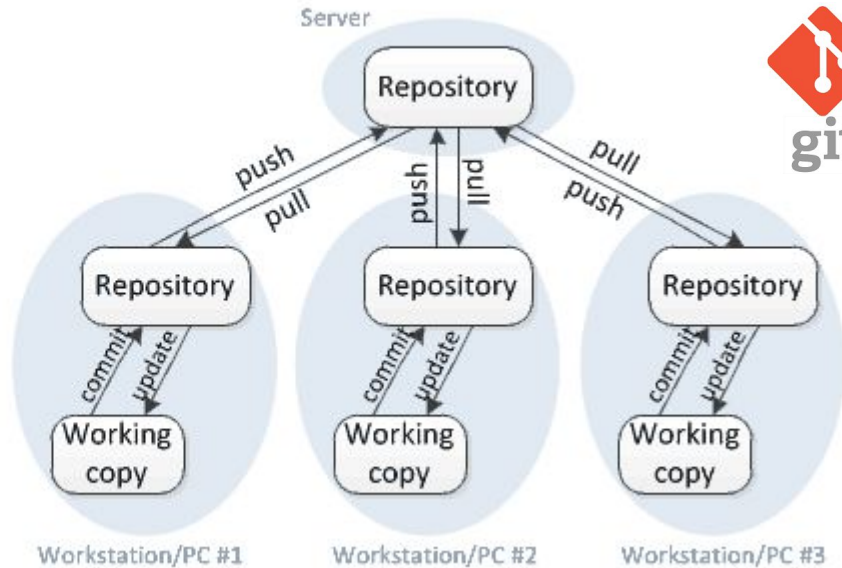
- Istnieje wiele sposobów radzenia sobie z problemem zmian w naszych plikach
- Git - Linus Torvalds - 2005 - praca nad rozwojem linuxowego kernela
- Git - narzędzie opensource:  
<https://github.com/git/git>

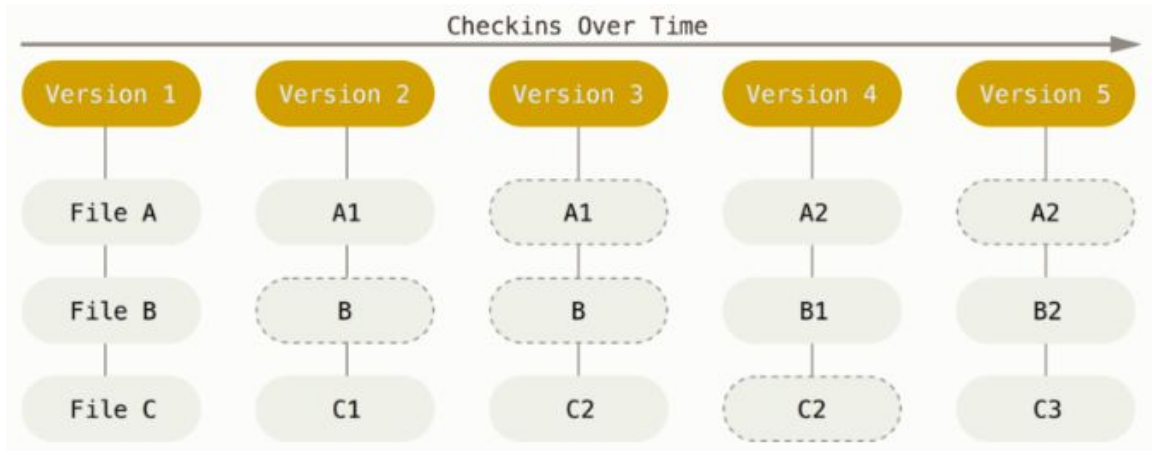


## Centralized version control

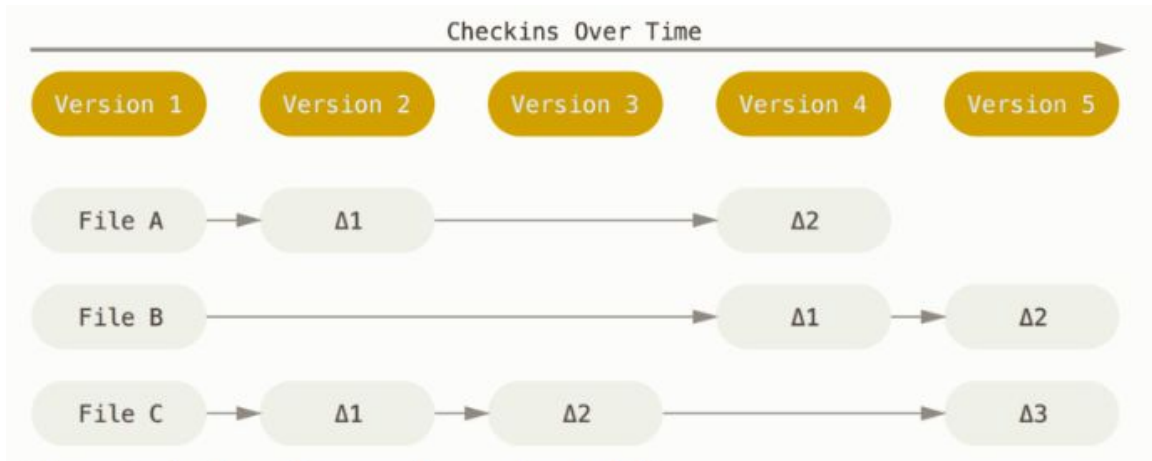


## Distributed version control





snapshot całego systemu plików



tylko dane które zostały zmienione

# jak działa git?

**working directory**



demo

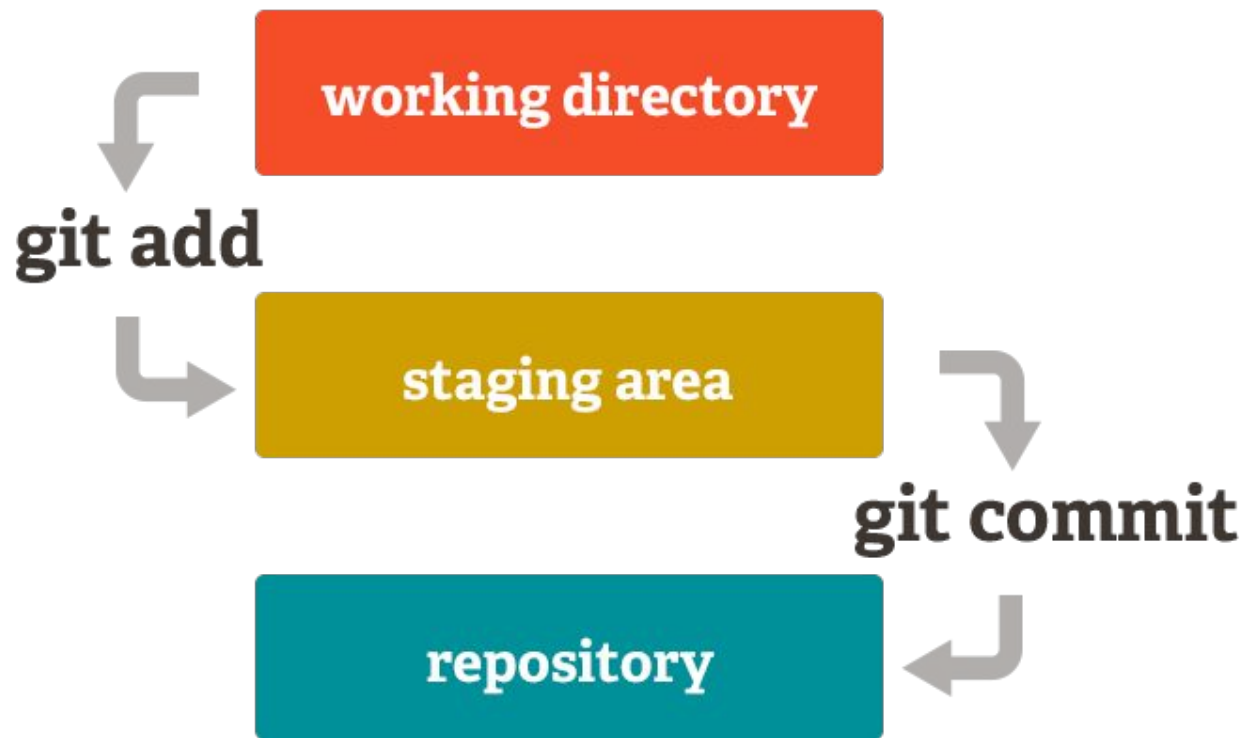
[https://drive.google.com/open?id=10jK4scw9XZw0jOSWXA0TxdACck\\_59WOE](https://drive.google.com/open?id=10jK4scw9XZw0jOSWXA0TxdACck_59WOE)

# jak działa git?

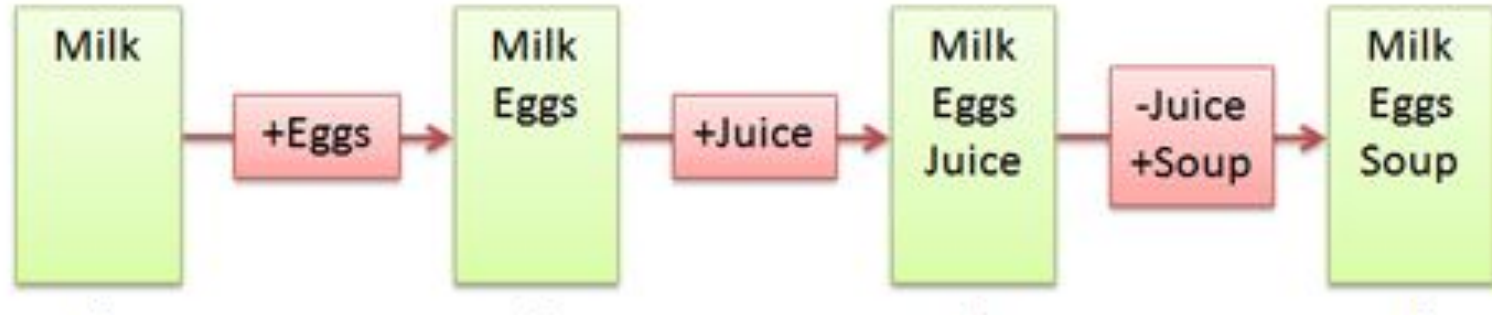
**working directory**

**repository**

# jak działa git?



# co to jest commit?



● 5e28a90247

Create shopping  
list

● 135a324faa

Add eggs

● 153c0802a7

Add juice

## SHA-1

● 3901e02e5e

Remove juice and add  
soup

```
[~/t/.git (GIT_DIR!)] ls
COMMIT_EDITMSG ORIG_HEAD      config      hooks       info        objects
HEAD           branches    description index        logs        refs

[~/t/.git (GIT_DIR!)] cd objects/
[~/t/.g/objects (GIT_DIR!)] ls
0d    29    2e    3a    3c    4e    55    6d    88    99    a5    a6    b0    b3    b7    b9    bd    be    c8    e1    info pack
[~/t/.g/objects (GIT_DIR!)] ls 0d/
461e5e1bfd3d4d4370e111310fdffdf5b68868
~/t/.g/objects (GIT_DIR!) █
```

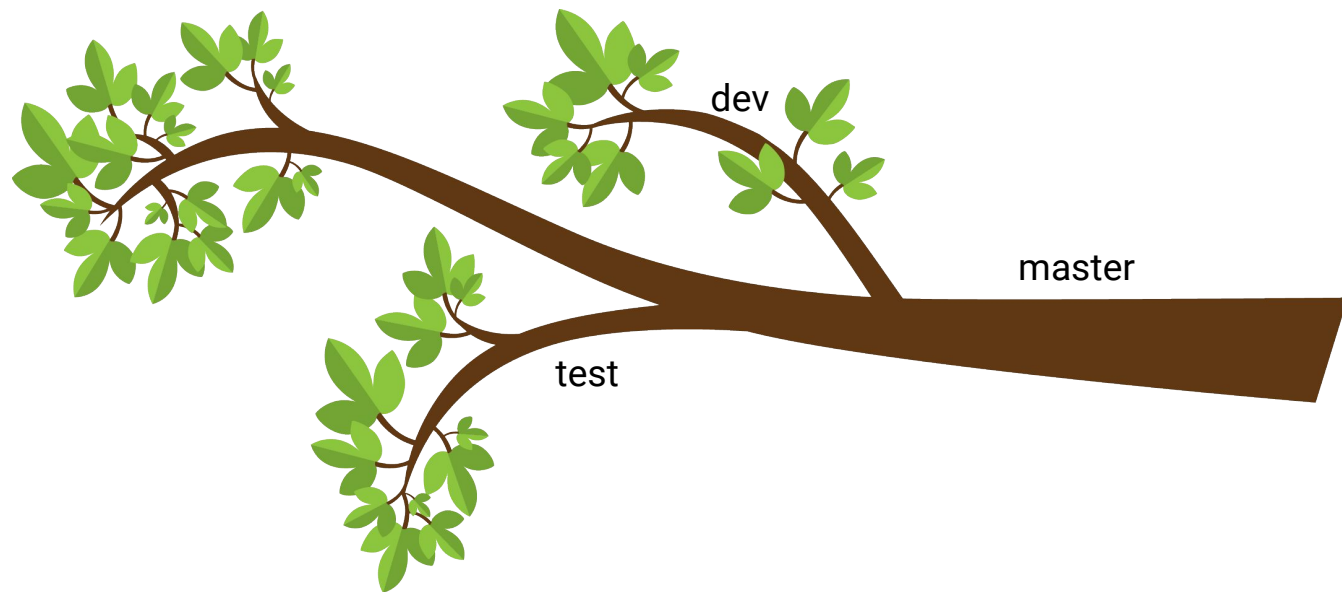
# HEAD i git checkout

```
~/t/.git (GIT_DIR!) ls
COMMIT_EDITMSG ORIG_HEAD      config      hooks      info      objects
HEAD              branches    description index      logs      refs
~/t/.git (GIT_DIR!) cat HEAD
ref: refs/heads/master
~/t/.git (GIT_DIR!) ls refs
heads tags
~/t/.git (GIT_DIR!) ls refs/heads
master
~/t/.git (GIT_DIR!) cat refs/heads/master
e1cef2f6d8b637ee0ba89bed77754ad0de69c2e6
~/t/.git (GIT_DIR!) █
```

```
~/t/.git (GIT_DIR!) ls
COMMIT_EDITMSG ORIG_HEAD      config      hooks      info      objects
HEAD              branches    description index      logs      refs
~/t/.git (GIT_DIR!) cat HEAD
ref: refs/heads/dev
~/t/.git (GIT_DIR!) cat refs/heads/dev
e1cef2f6d8b637ee0ba89bed77754ad0de69c2e6
~/t/.git (GIT_DIR!)
```



gałąź aka branch



chcę gita! skąd go wziąć?

[git-scm.com/downloads](https://git-scm.com/downloads)

Poza tym:

- Debian/Ubuntu: `sudo apt-get install git`
- RedHat: `sudo yum install git`
- macOS (homebrew): `brew install git`
- Windows (chocolatey): `choco install git`

podstawowa konfiguracja

demo

<https://drive.google.com/open?id=1Jp7ujWk-tssPrv1ZwydeGSvsYZRp9Cza>

# podstawowe operacje na plikach

git add

git rm

.gitignore

git <command> --dry-run

demo: <https://asciinema.org/a/226263>

więcej: <https://www.gitignore.io/>

Branch: master ▾

django / .gitignore

Find file

Copy path

 **tobiasmcnulty** Fixed #22446 -- Added tox.ini to automate pull request checks.

09d3874 on 20 Jul 2016

9 contributors



19 lines (17 sloc) | 353 Bytes

Raw

Blame

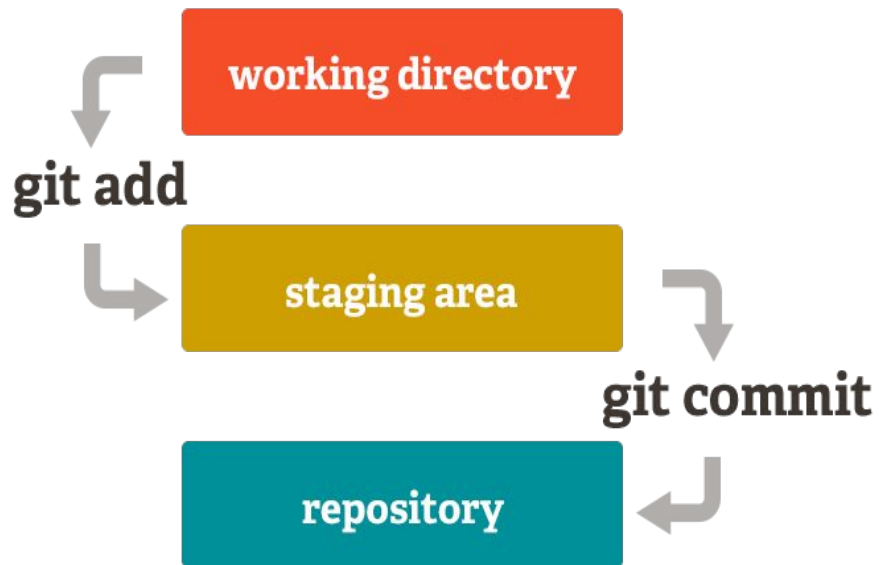
History



```
1 # If you need to exclude files such as those generated by an IDE, use
2 # $GIT_DIR/info/exclude or the core.excludesFile configuration variable as
3 # described in https://git-scm.com/docs/gitignore
4
5 *.egg-info
6 *.pot
7 *.py[co]
8 .tox/
9 __pycache__
10 MANIFEST
11 dist/
12 docs/_build/
13 docs/locale/
14 node_modules/
15 tests/coverage_html/
16 tests/.coverage
17 build/
18 tests/report/
```



# podstawowy workflow (lokalnie)



1. > on branch master
2. rób swoje zmiany
3. `git status`
4. `git add xxx.txt`
5. `git commit -m "Testowy commit"`
6. Sprawdź zaktualizowany stan:  
`git status`  
`git log`

demo

<https://drive.google.com/open?id=1MzCktGRCkraADNx0D9oDtBaj7cytrFpU>

# cofanie zmian

git revert <commit-id>

git reset (<commit-id>) <file>/ git reset --soft / git reset --hard/ git reset --mixed

demo: <https://asciinema.org/a/226342>

więcej:

[https://docs.gitlab.com/ee/topics/git/numerous\\_undo\\_possibilities\\_in\\_git/](https://docs.gitlab.com/ee/topics/git/numerous_undo_possibilities_in_git/)

[git reset - demystified](#)

# za dużo... pomocy!

git help / git help <command-name>

**git help tutorial**

git log / git log -p / git log --oneline / git log --graph --oneline --decorate

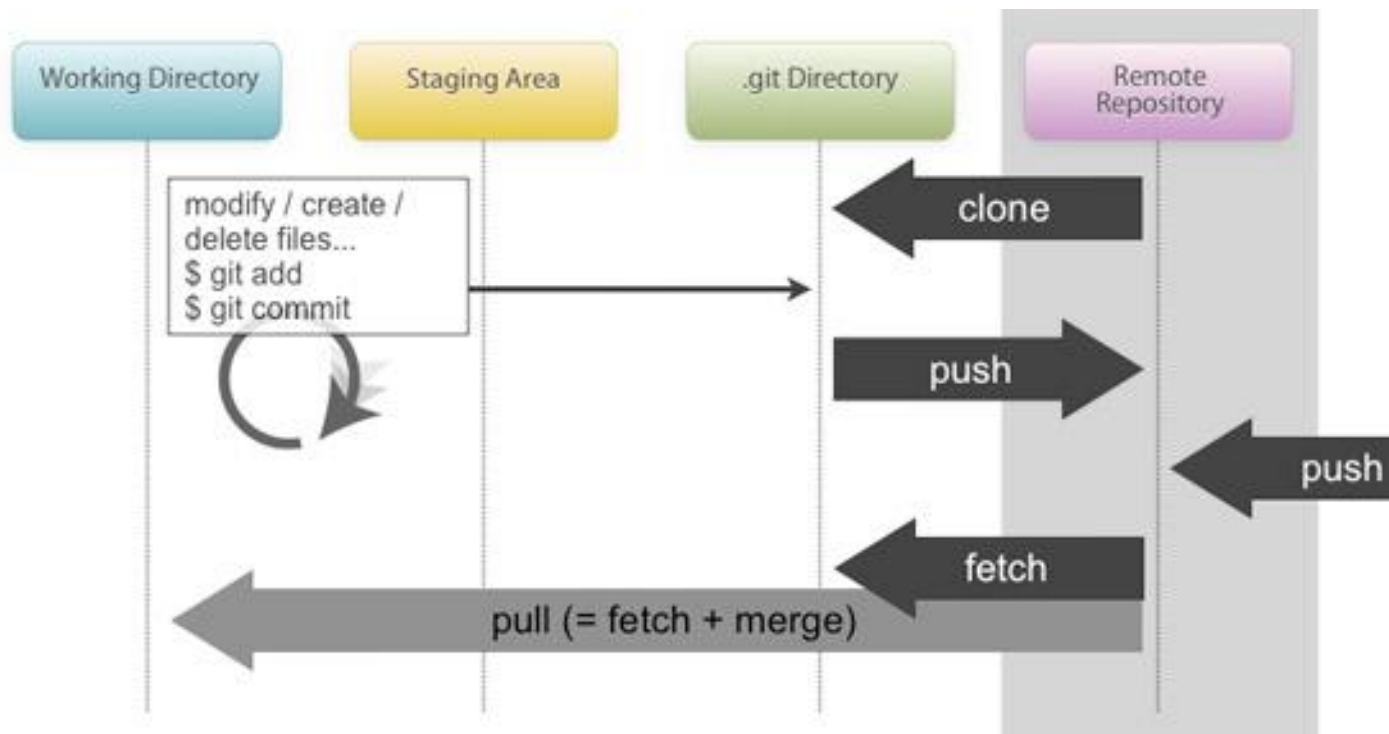
demo: <https://asciinema.org/a/226347>

więcej:

<https://git-scm.com/book/en/v2/Git-Basics-Viewing-the-Commit-History>

<https://git-scm.com/docs/git-help>

# mój projekt dostępny w internecie?



demo

[https://drive.google.com/open?id=1ZmsKr4bQ7uBgCp8kuC3elcPrOt\\_MFwjL](https://drive.google.com/open?id=1ZmsKr4bQ7uBgCp8kuC3elcPrOt_MFwjL)



konsola albo GUI

demo

<https://drive.google.com/open?id=1sOx1uG2fE9haSj2jt5z6bPrbd8khLkSA>

# co dalej?

- opanować podstawy (!)
- git branch
- git merge
- sposoby pracy z gitem w projektach
- repo w repo (np submodules)
- ...

# linki

## Pożyteczne:

[Git Cheat Sheet | GitHub](#)

[Try GitHub](#)

[Git Book](#)

[Git tutorials | Atlassian](#)

[Understanding Git \(part 1\) – Explain it Like I'm Five | Hackernoon](#)

## Śmieszne (być może):

[GIT - the stupid content tracker](#) (Linus Torvalds - historyczny opis czym jest git)

[git-poem](#)

dziękujemy!