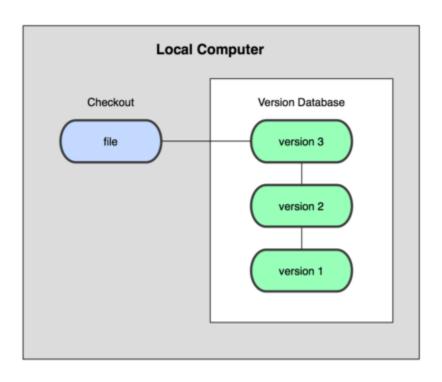
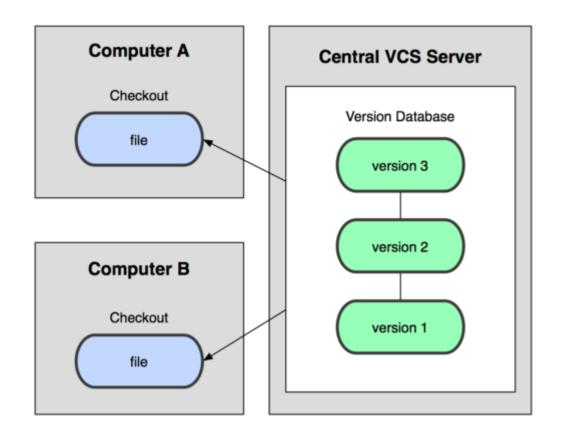
## Version Control Systems

## Local systems

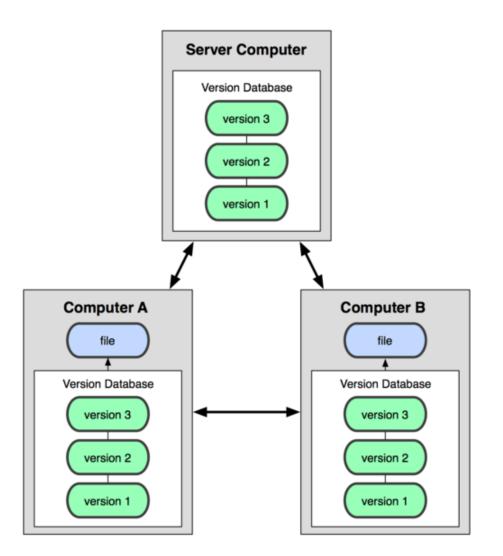


# CVCS - Centralized Version Control System



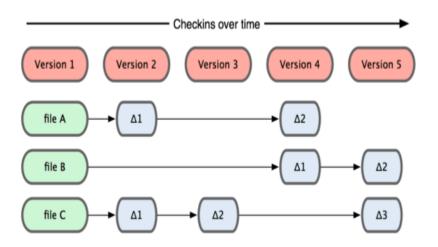
Rys. https://git-scm.com/book/pl/v1/Pierwsze-kroki-Wprowadzenie-do-kontroli-wersji CVS, Subversion

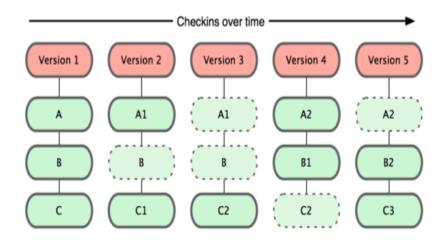
# DVCS - Distributed Version Control System



Git, Mercurial

#### CVCS vs DVCS



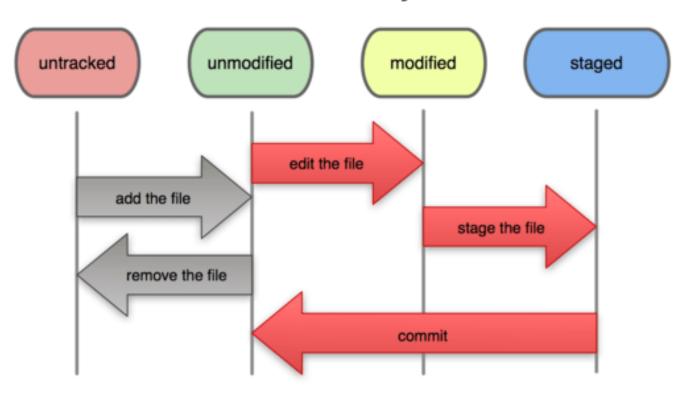


Subversion – differences between files

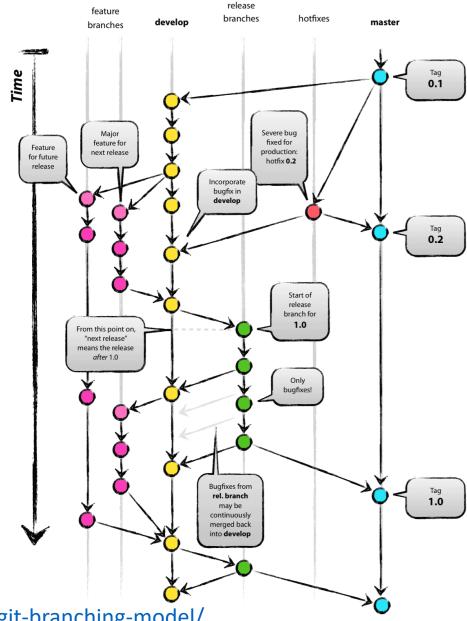
Git – snapshots and references

#### Git operation

#### File Status Lifecycle

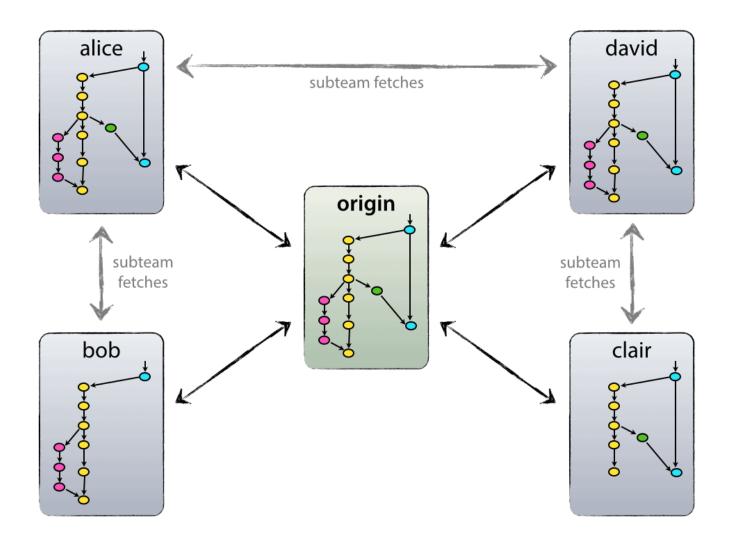


#### Branches

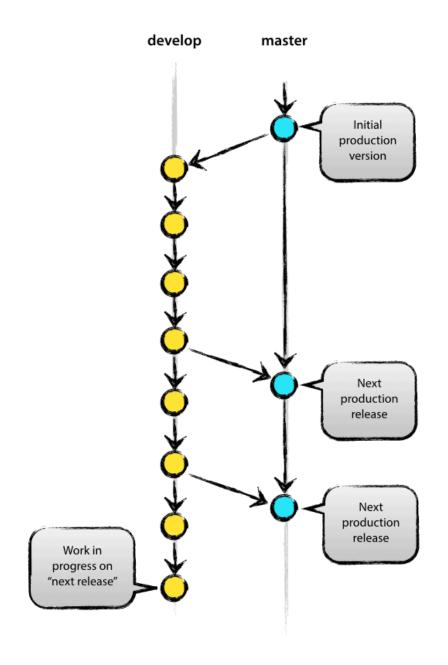


https://nvie.com/posts/a-successful-git-branching-model/

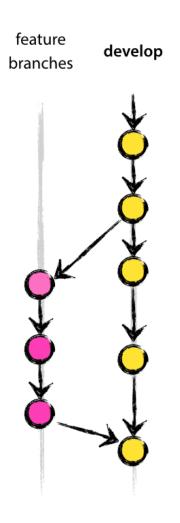
## Decentralized system

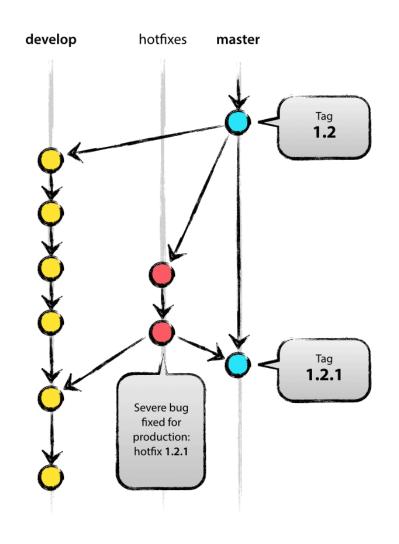


# Master and develop

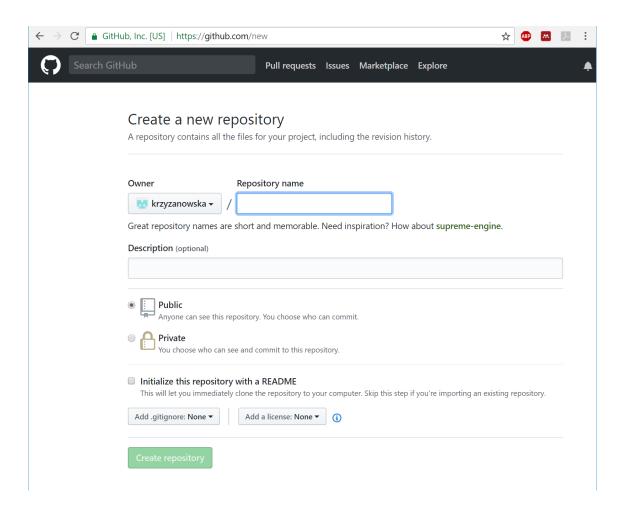


## Supporting branches

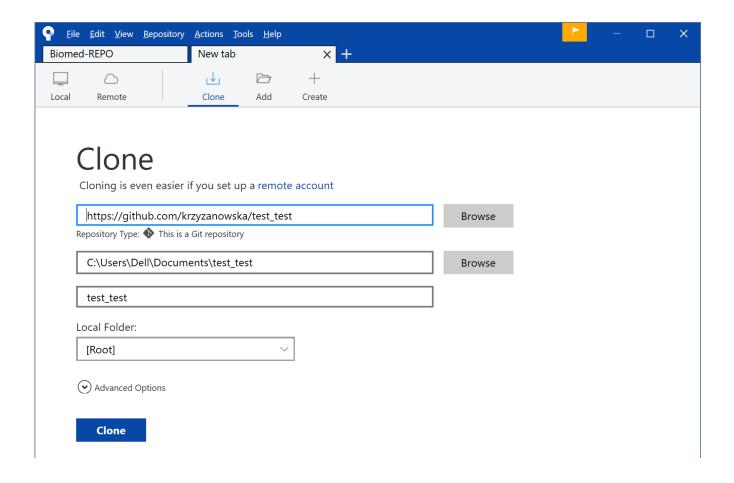




### Create a new project on github

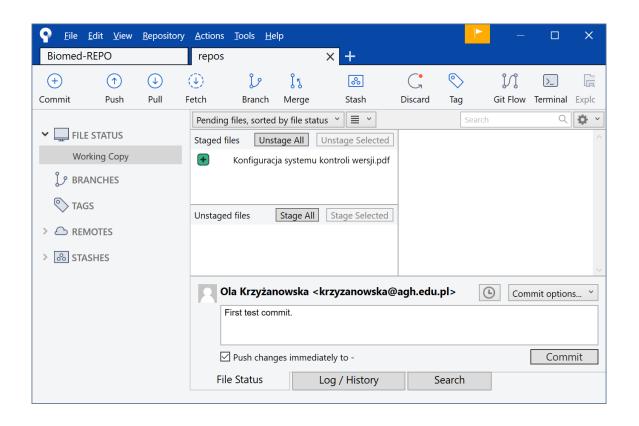


#### Clone the project with SourceTree



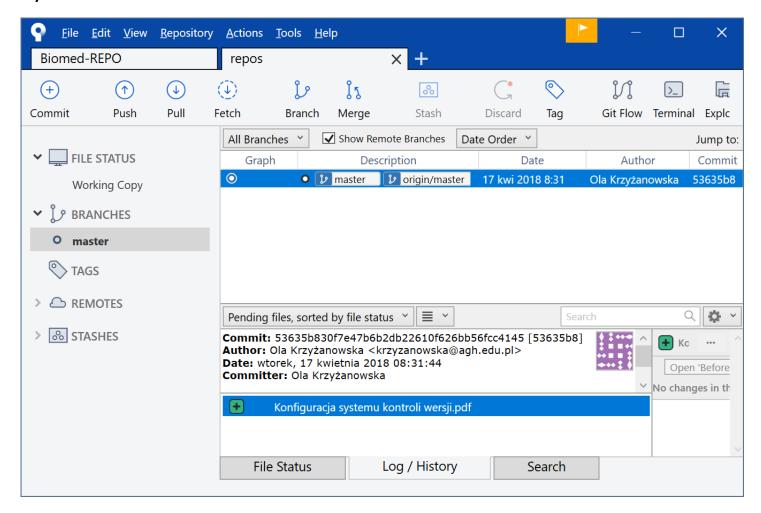
#### Work with SourceTree

Add files to your directory on disk, stage all and commit with a comment.

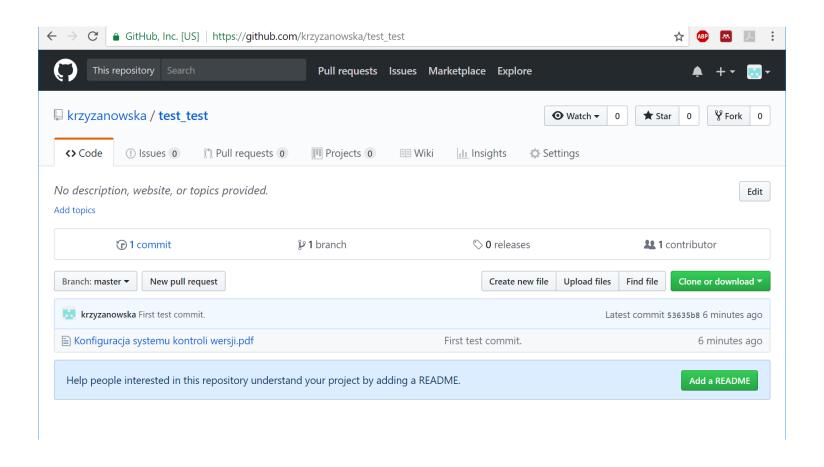


#### Work with SourceTree

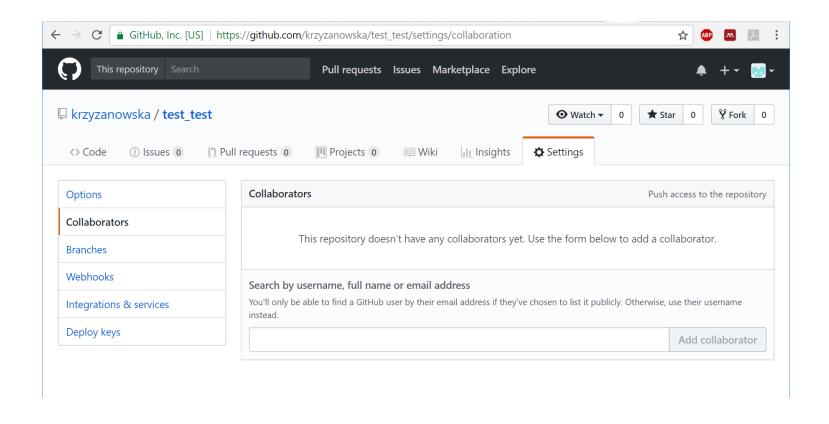
Check your branch - master.



### Check your project on github



### Add collaborators on github



#### Basic commands

- Clone copy a remote repository
- Fetch retrieve new objects and references from the remote repository
- Pull fetch and merge commits locally
- Commit add new objects and references to the local repository
- Push add new objects and references to the remote repository

## References:

https://git-scm.com/book/pl/v1/Pierwsze-kroki-Wprowadzenie-do-kontroli-wersji

https://www.atlassian.com/git/tutorials/comparing-workflows#!workflow-gitflow

https://github.com/GSoft-SharePoint/Dynamite/wiki/Getting-started-with-SourceTree,-Git-and-git-flow

SVN: <a href="https://www.youtube.com/watch?v=dbE6rHGvqYU">https://www.youtube.com/watch?v=dbE6rHGvqYU</a>
GIT: <a href="https://www.youtube.com/watch?v=iVRKQCDeDjc">https://www.youtube.com/watch?v=iVRKQCDeDjc</a>

Mercurial: <a href="https://www.youtube.com/watch?v=ie5BeYHVL71">https://www.youtube.com/watch?v=ie5BeYHVL71</a>

Sourcetree course: <a href="https://www.coursera.org/learn/version-control-with-git#">https://www.coursera.org/learn/version-control-with-git#</a>

https://learngitbranching.js.org/