

# VRE for regional Interdisciplinary communities in Southeast Europe and the Eastern Mediterranean

## VI-SEEM Source Code Repository



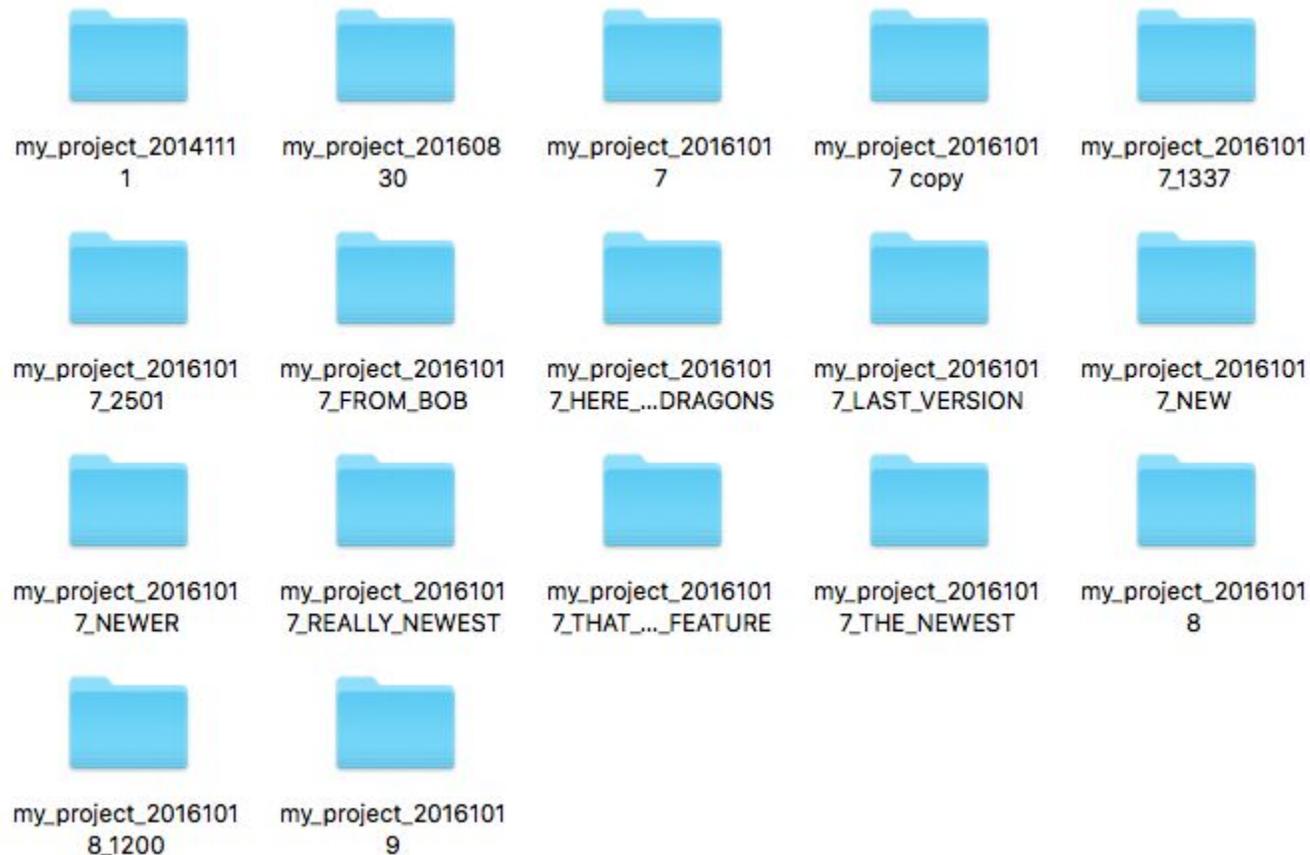
Vi-SEEM

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- ❑ Introduction to version control
- ❑ VI-SEEM repository
- ❑ Introduction to git
  - ❑ initializing/cloning a project
  - ❑ making changes
  - ❑ synchronising
- ❑ GUI Clients

# Introduction to Version Control

- The problem it tackles:



# Introduction to Version Control



- ❑ Organizes your file versions.
- ❑ Keeps track of changes.
- ❑ Enables sharing and collaboration with others.

- ❑ Repository url: <https://code.vi-seem.eu>
- ❑ Requesting a new user account:

New user? Create an account

Name
Username
Email
Password - minimum length 8 characters

[Sign up](#)

- ❑ Starting a project
  - ❑ `git init`
- ❑ Checkout an existing project from a repository
  - ❑ `git clone /path/to/repository`
  - ❑ `git clone username@host:/path/to/repository`
- ❑ Inspecting changes
  - ❑ `git stat`
- ❑ Saving changes
  - ❑ `git add .`
  - ❑ `git commit -m 'commit message'`

## ❑ Pushing changes

- ❑ `git push origin master`

- ❑ if the origin repository is not set:

- `git remote add origin <repository_url>`

## ❑ Updating

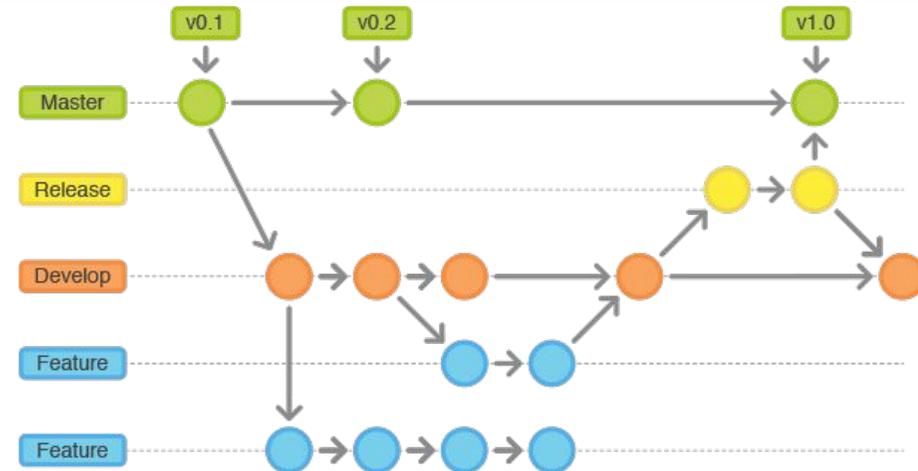
- ❑ `git pull`

- ❑ **or:** `git fetch & git update`

## ❑ Merging

- ❑ `git merge <branch>`

- ❑ Branching
  - ❑ `git checkout -b new_branch`
- ❑ Switching branch
  - ❑ `git checkout the_branch`
- ❑ Deleting a branch
  - ❑ `git branch -d the_branch`
- ❑ To push the branch to remote repository:
  - ❑ `git push origin <branch>`



- ❑ There are graphical interfaces for GIT and other SCMs.
- ❑ Most IDEs have some integrated support.
- ❑ Some recommendations:
  - ❑ TortoiseGIT (for Windows): <https://tortoisegit.org/>
  - ❑ Git's official list: <https://git-scm.com/downloads/guis>

# Relevant XKCD



Thank you for your attention.