

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

Source Code Repository



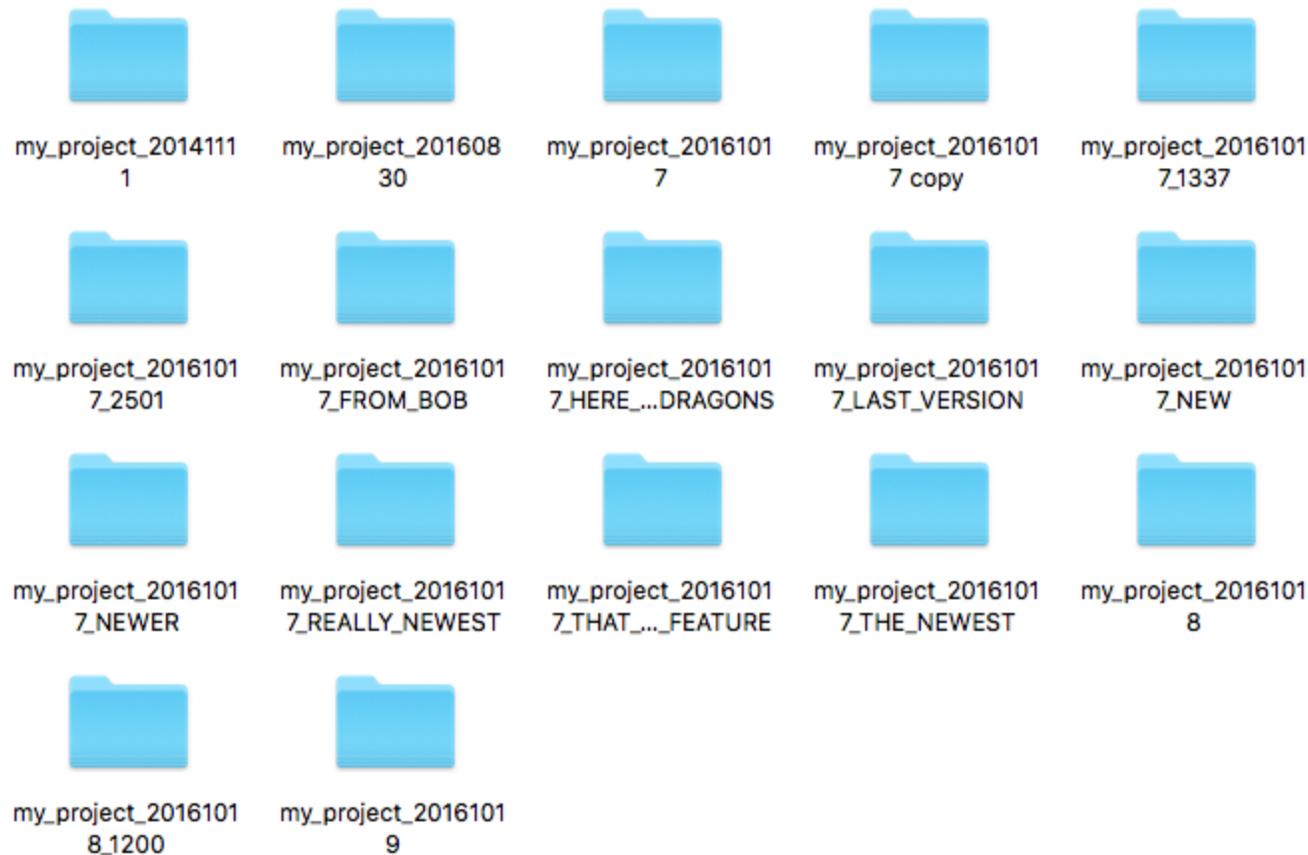
Vi-SEEM

Petar Jovanovic
Institute of Physics Belgrade

- ❑ Introduction to version control
- ❑ VI-SEEM repository
- ❑ Introduction to git
 - ❑ starting 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](#)

Introduction to git - starting a project



- ❑ Starting a project

 - ❑ `git init`

- ❑ Checkout an existing project from a repository

 - ❑ `git clone /path/to/repository`

 - ❑ `git clone username@host:/path/to/repository`

- ❑ Key terms:

 - ❑ Repository

 - ❑ Working dir

 - ❑ Stage (Index)

 - ❑ Head

Introduction to git - making changes

❑ Inspecting changes

- ❑ `git status`

❑ 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>`

Introduction to git - making changes

❑ Updating

- ❑ `git pull`
- ❑ **or:** `git fetch & git update`

❑ Merging

- ❑ `git merge <branch>`

Introduction to git

❑ Branching

❑ `git checkout -b new_branch`

❑ Switching branch

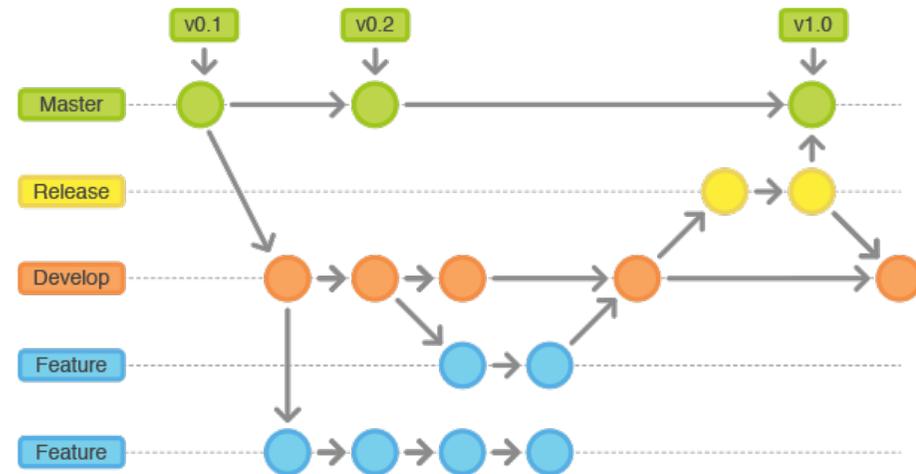
❑ `git checkout the_branch`

❑ 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.