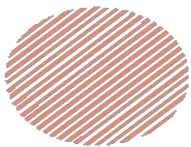




Session 2



Vlaams Instituut voor de Zee vzw
Flanders Marine Institute

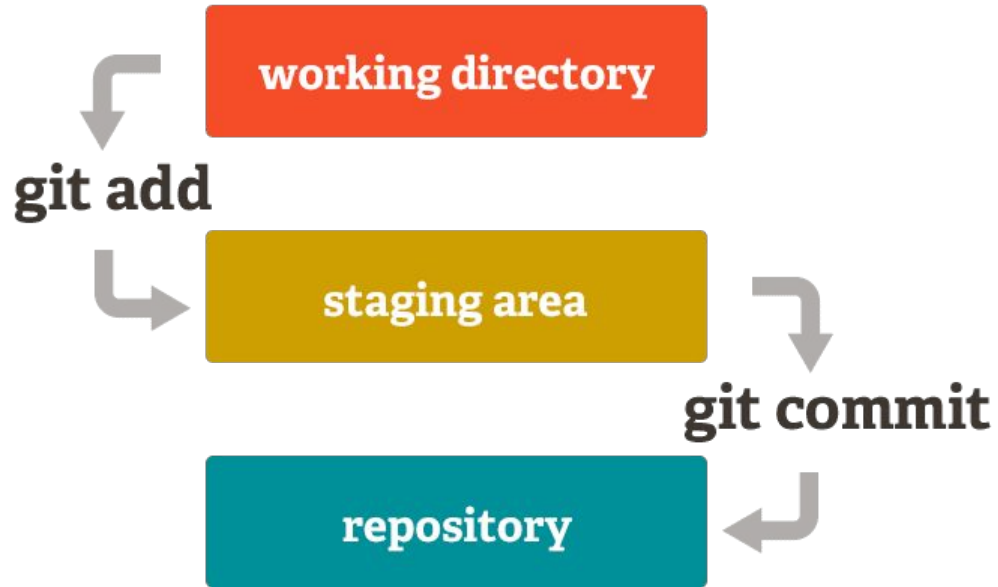


Recap – local

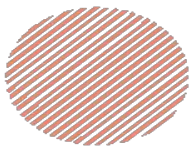
- ``git init`` #initialize new git repository
- ``git add`` # stages a change
- ``git commit [-m "..."]`` #snapshot changes
- ``git status`` # show status of changes
- ``git diff`` # show changes

<https://guides.github.com/introduction/git-handbook/>





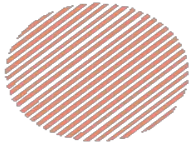
<http://git-school.github.io/visualizing-git/#free>



Going back?

- ``git checkout <branch/commit>`` # move HEAD to (previous) commit/branch
- **HEAD** is a reference to the currently checked out commit, i.e. “what commit you're working on top of”
- Use ``git log`` to view history
- **Work from there?**
 - Detached HEAD! **=> CREATE NEW BRANCH**

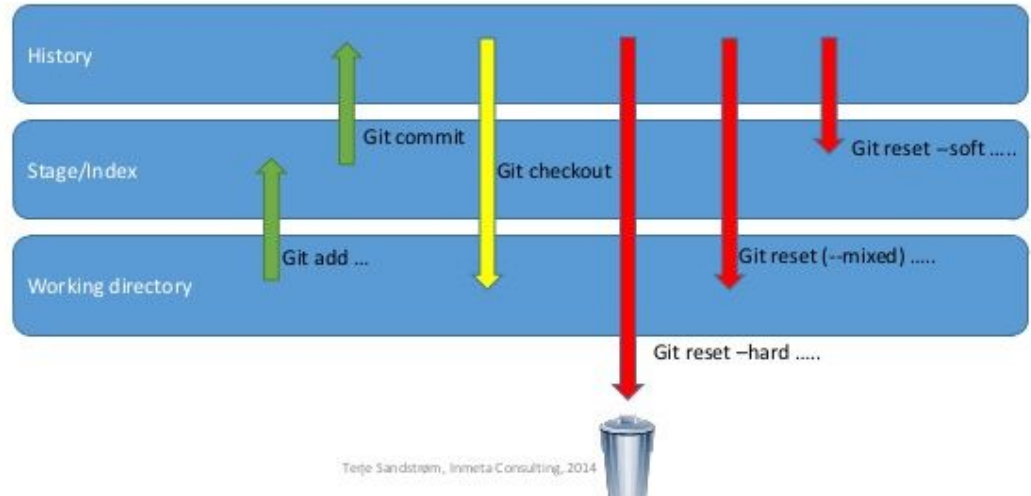




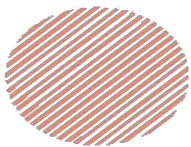
Going back?

- ``git reset``
 - `--hard (!)`
- ``git clean``

Git tree movements visualized

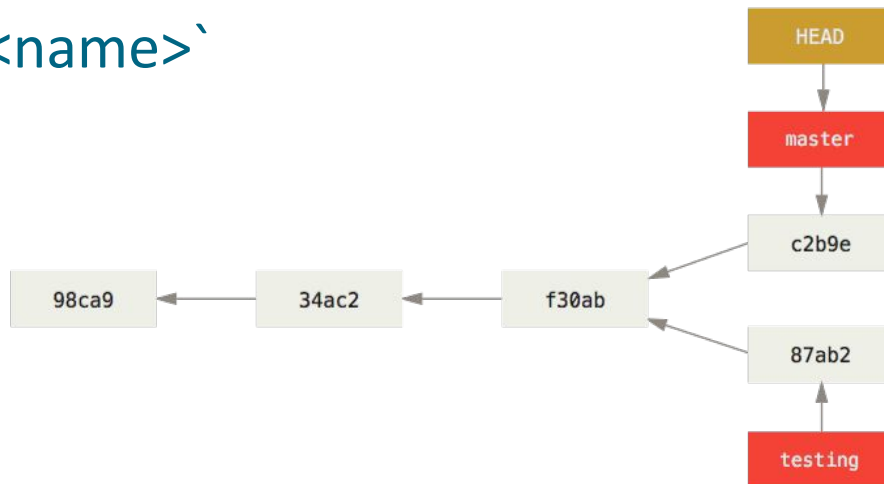


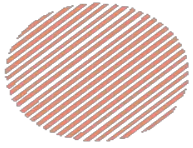
Terje Sandström, Inneta Consulting, 2014



Branching

- ``git branch [-a]`` # lists [also remote] branches
- ``git branch <name>`` # create new branch at HEAD
- Shortcut:
 - ``git checkout -b <name>``

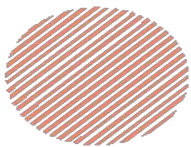




Branching

- Example case

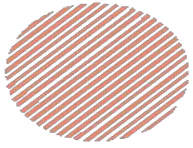
<http://git-school.github.io/visualizing-git/#free>



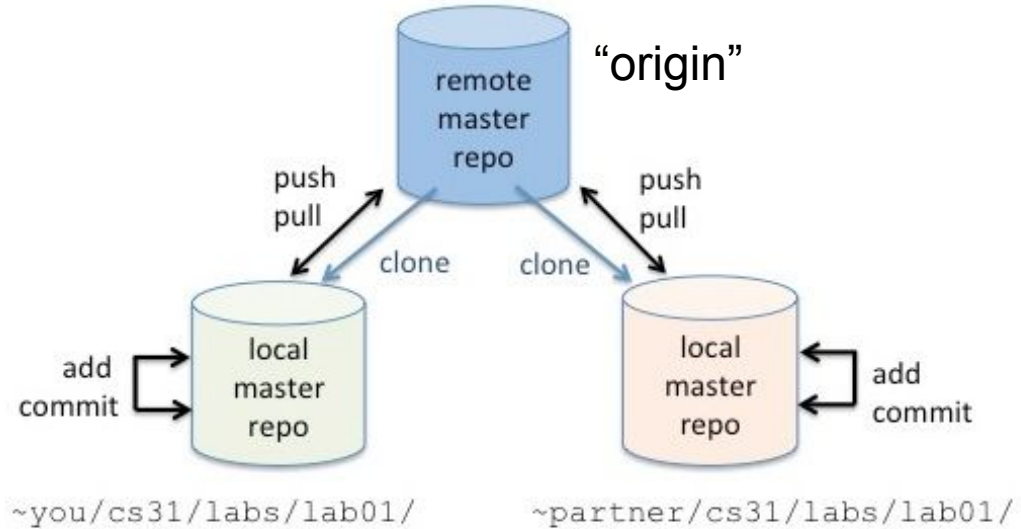
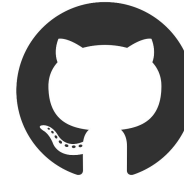
Recap – remote

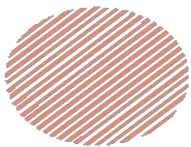
- ``git clone`` #copy remote project
- ``git pull`` #update local ~ remote
- ``git push`` #update remote ~ local





GitHub





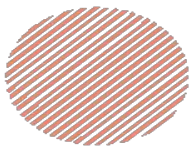
Exercise

Visual: <http://git-school.github.io/visualizing-git/#free-remote>

experimental test 1:

- **clone** my `R-code-club` GitHub repository
- Write name in correct position `attendees.txt`
- **Add + commit + push**
 - `git push --set-upstream origin <BRANCH-NAME>`
- **Merge ?**
- **Pull** other's "work"



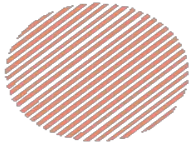


Exercise

Visual: [http://git-school.github.io/visualizing-git/#free-remote-experimental-test-2:](http://git-school.github.io/visualizing-git/#free-remote-experimental-test-2)

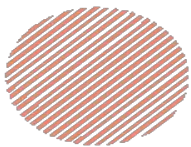
- Create **branch** locally = your workspace
- Modify one of the files/ or create new file in `Party/`
- **Add + commit + push** your branch
 - `git push --set-upstream origin <BRANCH-NAME>`
- **I merge ?**
- **Pull** other's "work"
 - ``git fetch --all``
 - `git checkout --track origin/<nick>`





Rstudio

- Has to be R project
 - > Create New Project
 - > ...
- Git tab in upper right View



Extra's to play with

- ``git revert``
- ``git rebase``
- ``git cherry-pick``
- ``git add --patch``

