Johan Herland

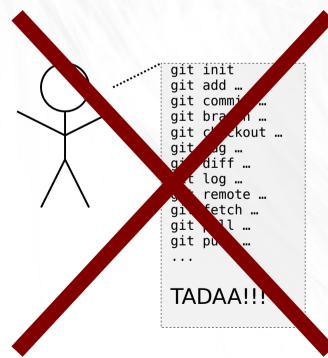
<johan@herland.net>

- Shamelessly stolen from Tom Preston-Werner http://tom.preston-werner.com/2009/05/19/the-git-parable.html
- I'm lazy...
- Also: Best introduction to Git I've found so far

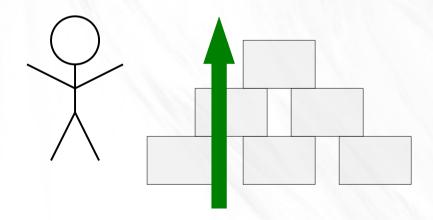
```
git init
git add ...
git commit ...
git branch ...
git checkout ...
git tag ...
git diff ...
git log ...
git remote ...
git fetch ...
git pull ...
git push ...
```

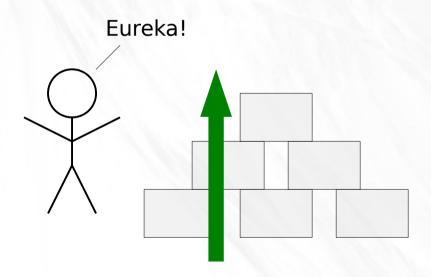
```
git init
git add ...
git commit ...
git branch ...
git checkout ...
git tag ...
git diff ...
git log ...
git remote ...
git pull ...
git push ...
...

TADAA!!!
```









The Parable

- A simple computer
 - A text editor
 - A few filesystem commands



The Parable

• Write a large software program

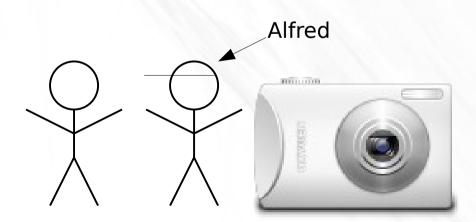


The Parable

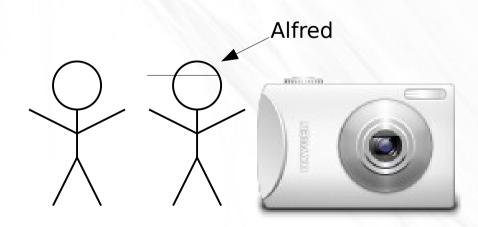
- Write a large software program
- Invent some method to keep track of versions
 - retrieve code that you changed/deleted

Responsible!

Alfred, the photographer



Alfred, the photographer

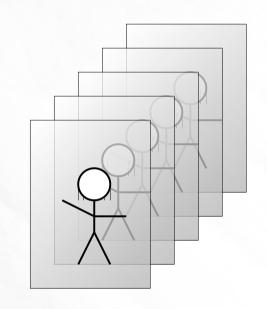


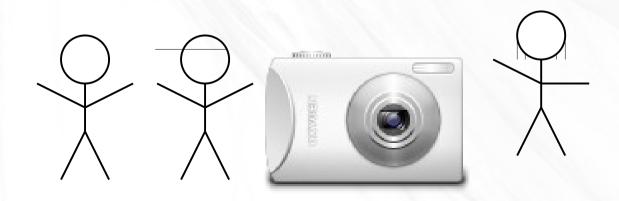


- Alfred, the photographer
- Hazel and her daughter

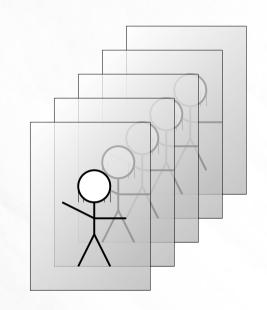


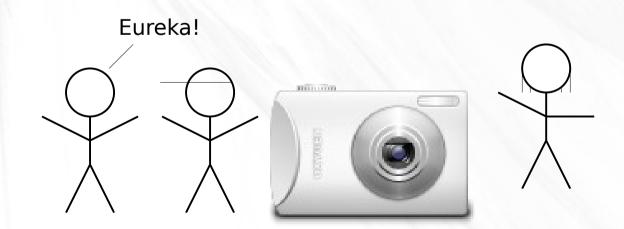
- Alfred, the photographer
- Hazel and her daughter
 - Remember what the daughter was like at each different stage



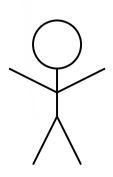


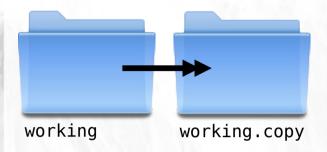
- Alfred, the photographer
- Hazel and her daughter
 - Remember what the daughter was like at each different stage

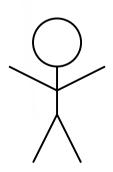


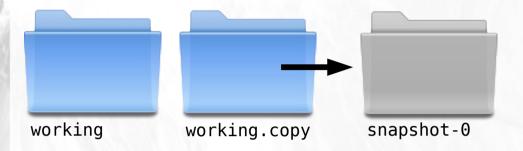


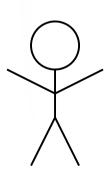


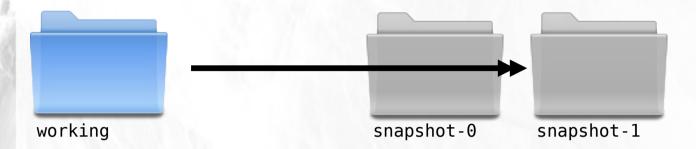


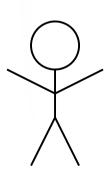




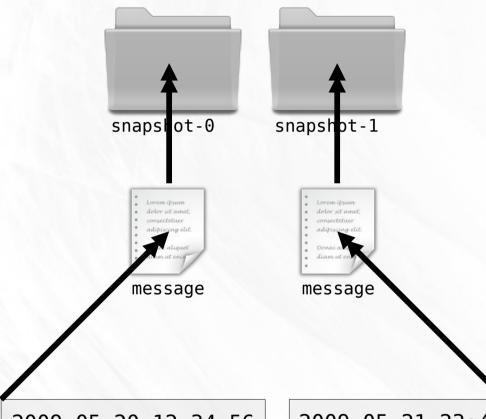


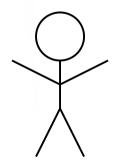












2009-05-20 12:34:56

Initial version

2009-05-21 23:45:01

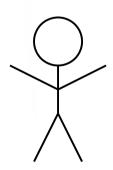
Introduced a new foo, and reset the bar to xyzzy.







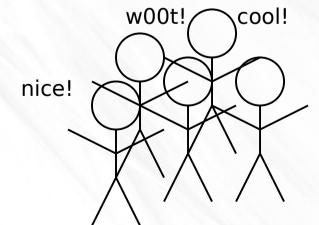
snapshot-99

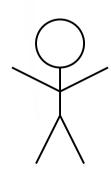




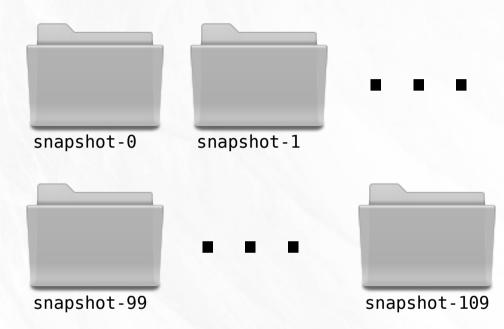


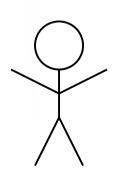


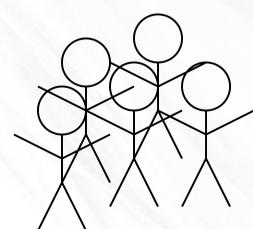






















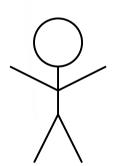




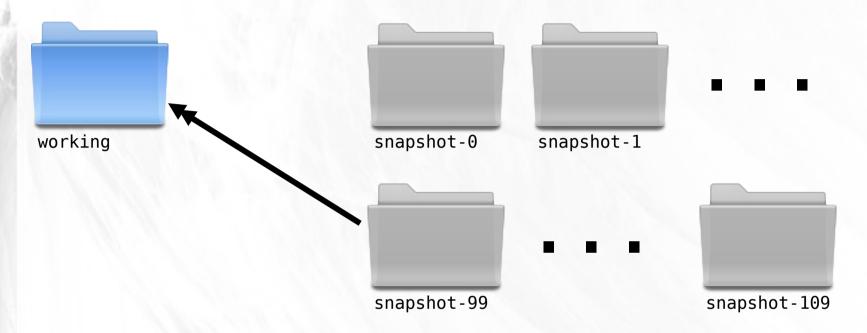
snapshot-109

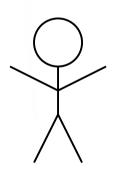


Does not work!

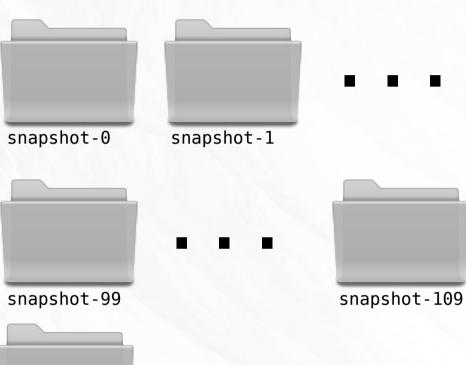


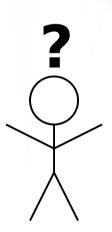






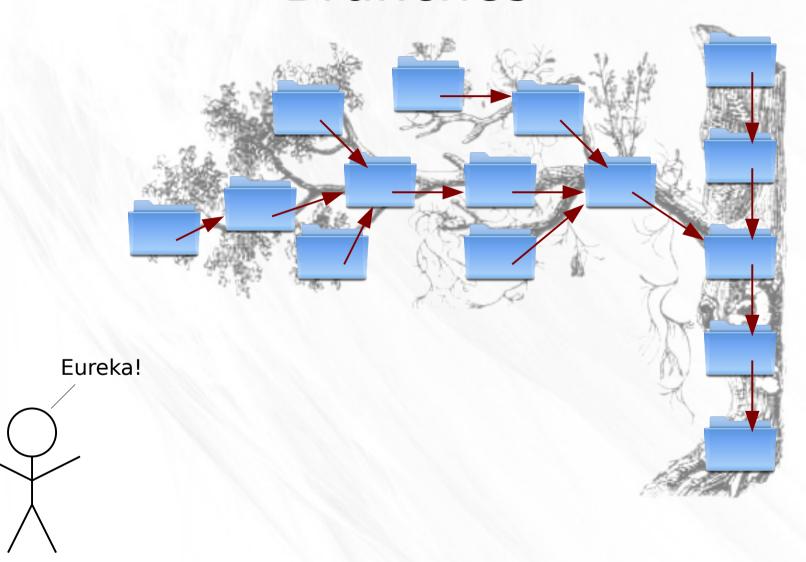


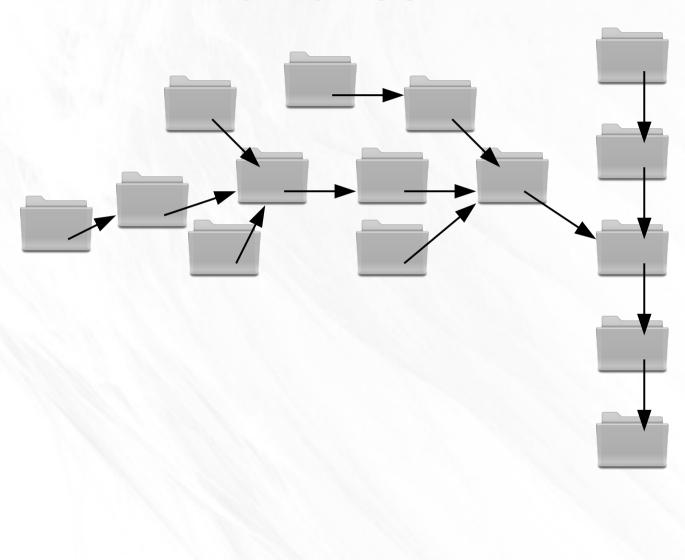


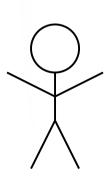


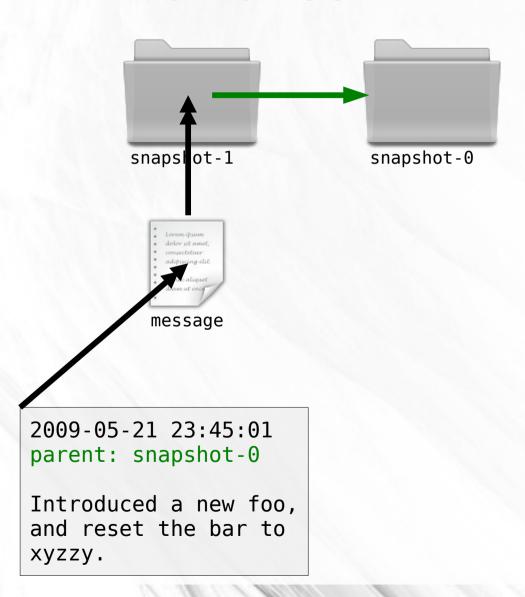


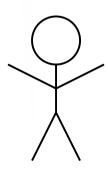






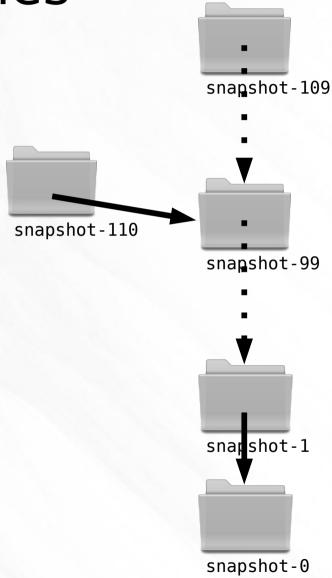


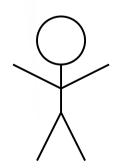




Branch Names

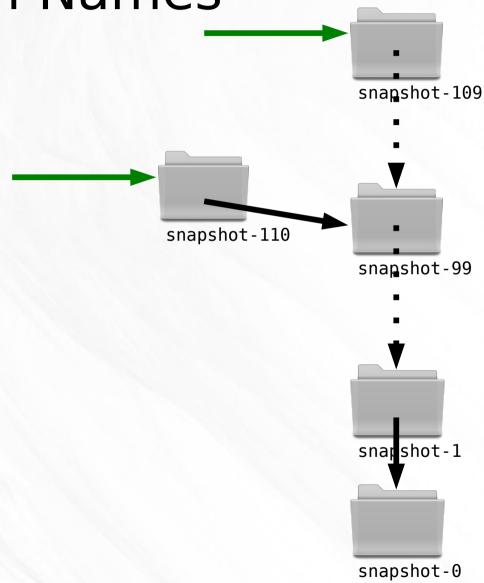


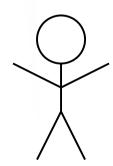




Branch Names

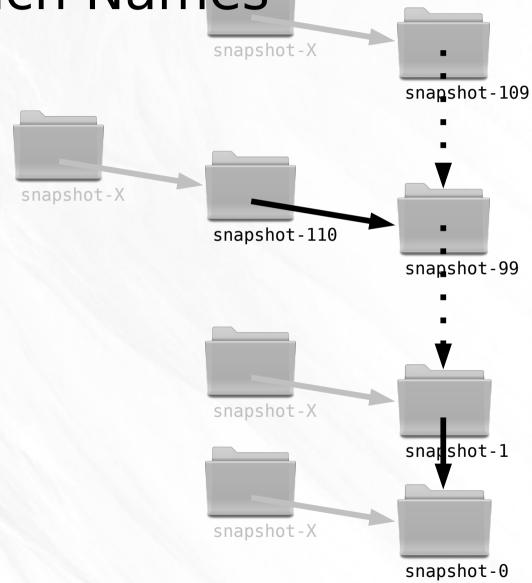


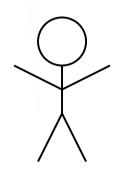




Branch Names

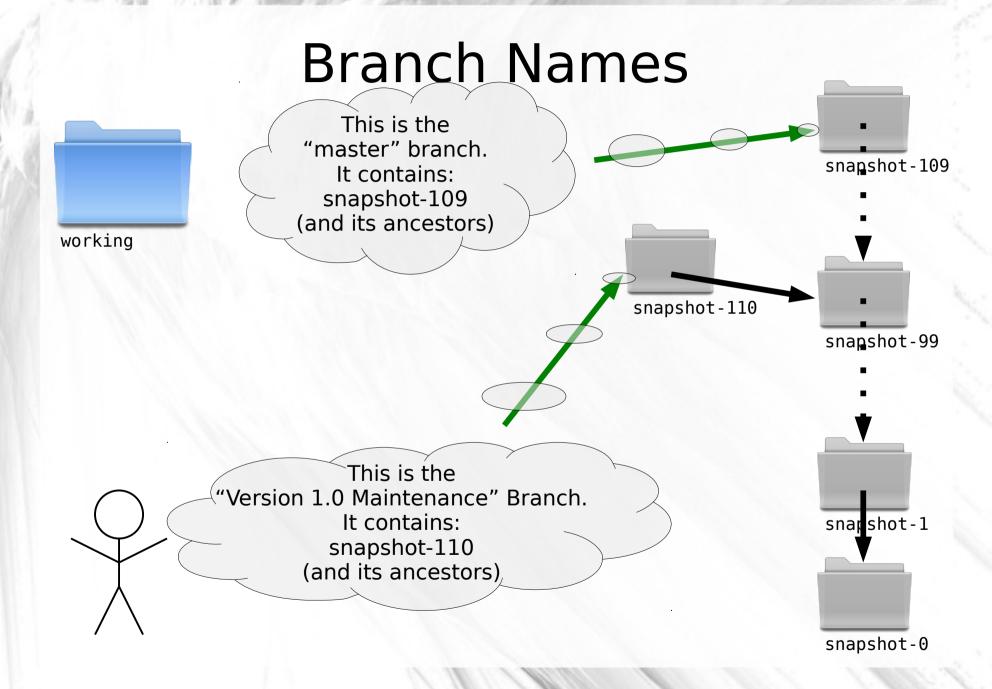


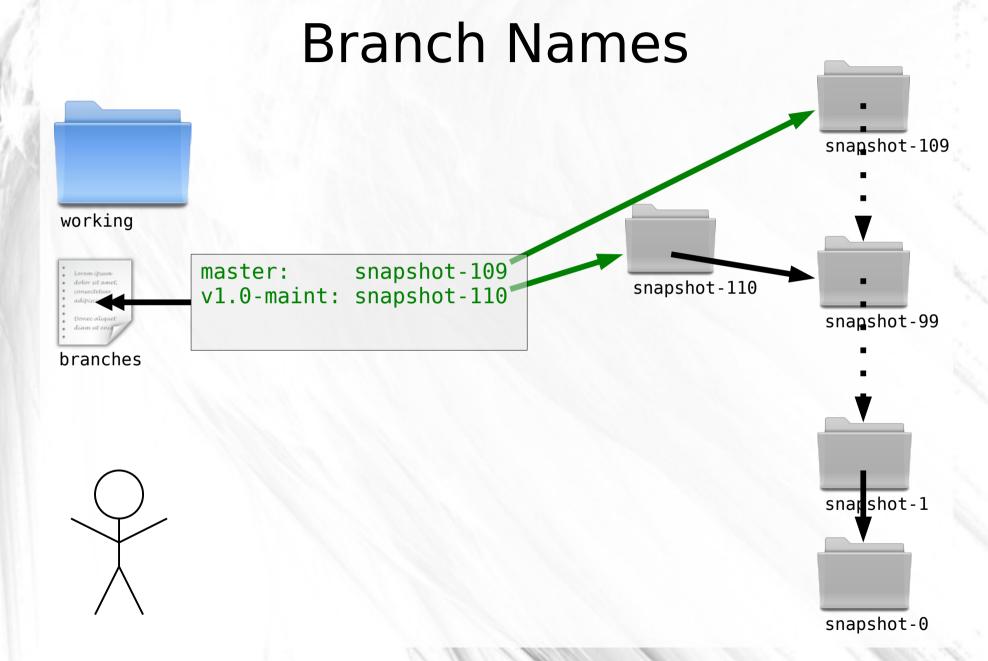




Branch Names snapshot-X snapshot-109 working snapshot-X snapshot-110 snapshot-99 snapshot-X snar shot-1 snapshot-X snapshot-0

Branch Names snapshot-109 This is the "master" branch working snapshot-110 snapshot-99 This will be the snarshot-1 "Version 1.0 Maintenance" Branch snapshot-0

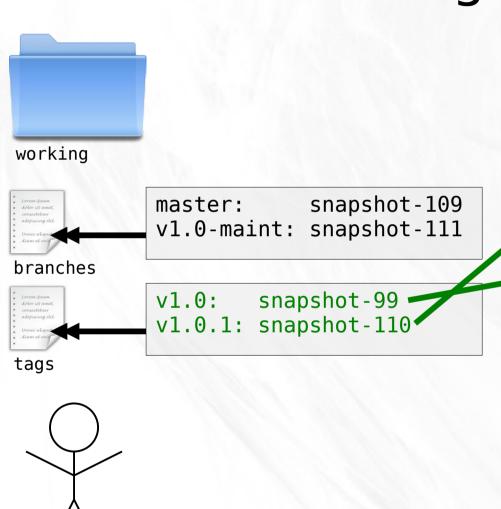


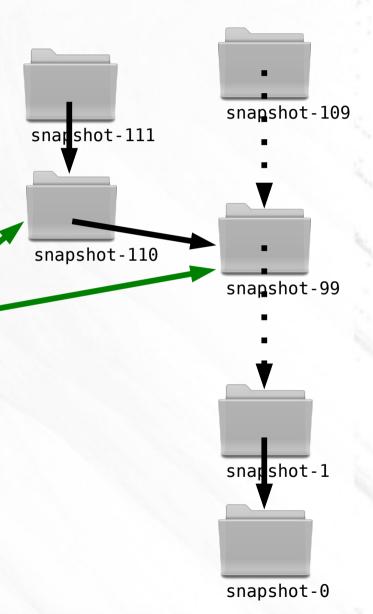


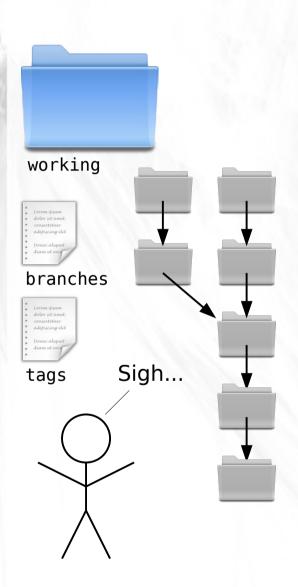
Branch Names snapshot-109 snapshot-111 working master: snapshot-109 v1.0-maint: snapshot-111 snapshot-110 snapshot-99 branches snarshot-1

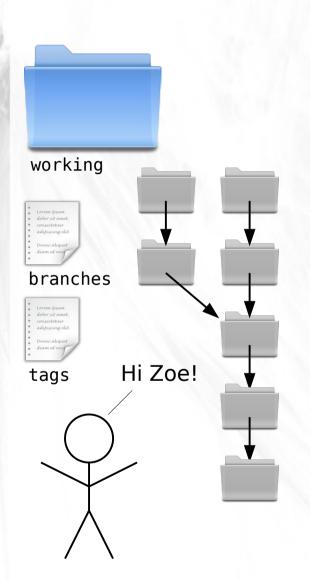
snapshot-0

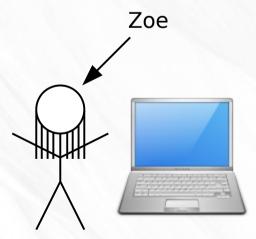


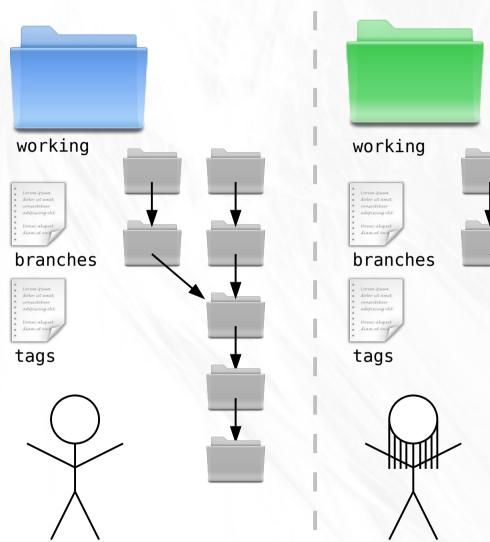


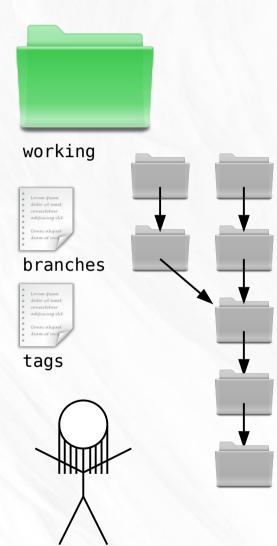


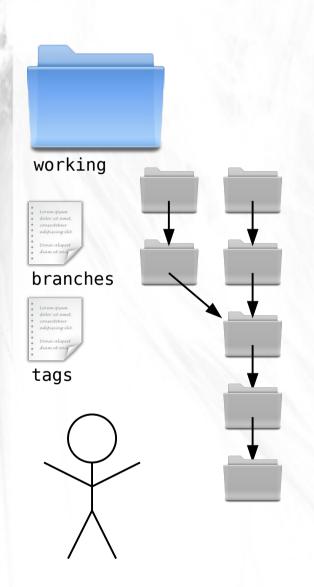


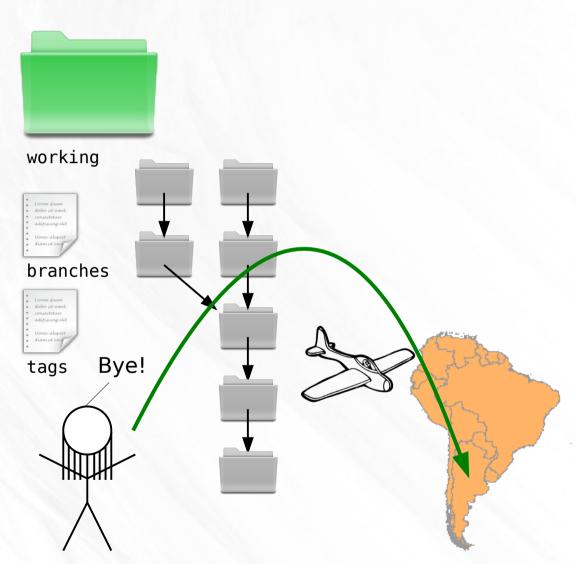


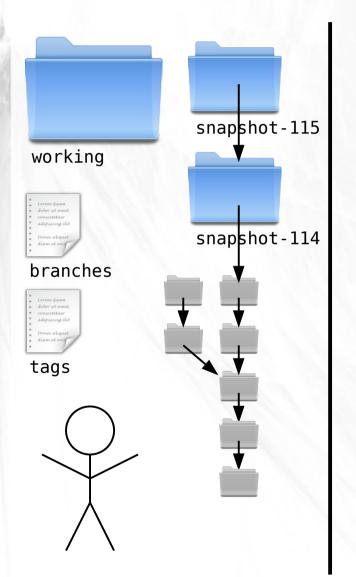


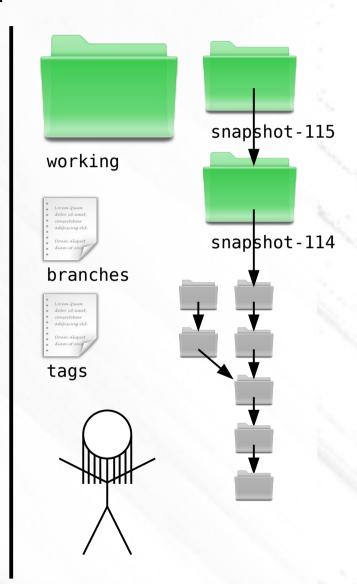


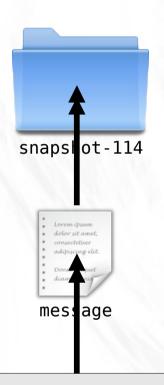






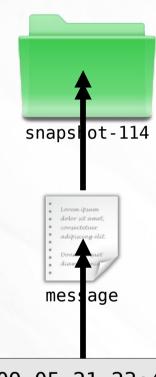






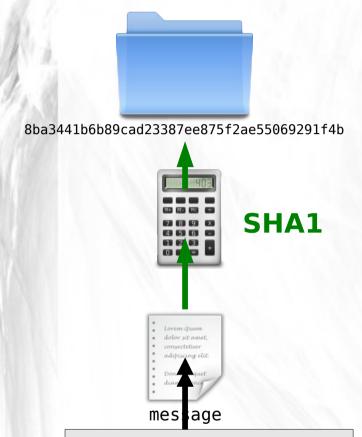
2009-05-22 12:12:12 parent: snapshot-113 author: Me <me@me.me>

Blarfle, a cool new feature; extends the existing blorg.



2009-05-21 23:45:01 parent: snapshot-113 author: Zoe <zoe@z.oe>

Introduced a new foo,
and reset the bar to
xyzzy.



2009-05-22 12:12:12 parent: snapshot-113 author: Me <me@me.me>

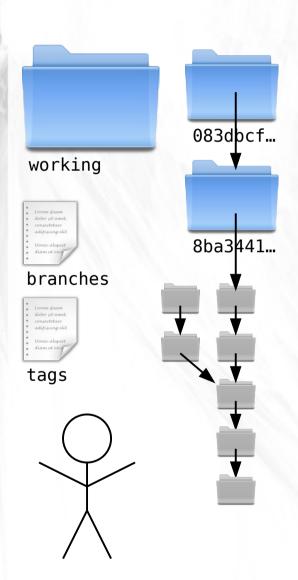
Blarfle, a cool new feature; extends the existing blorg.

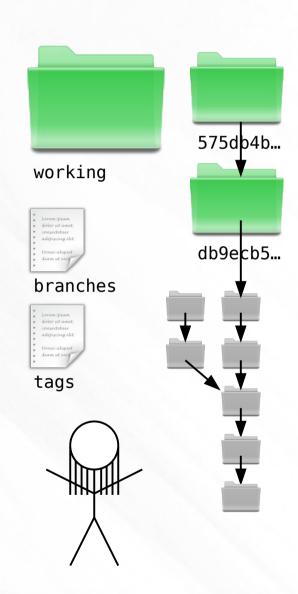


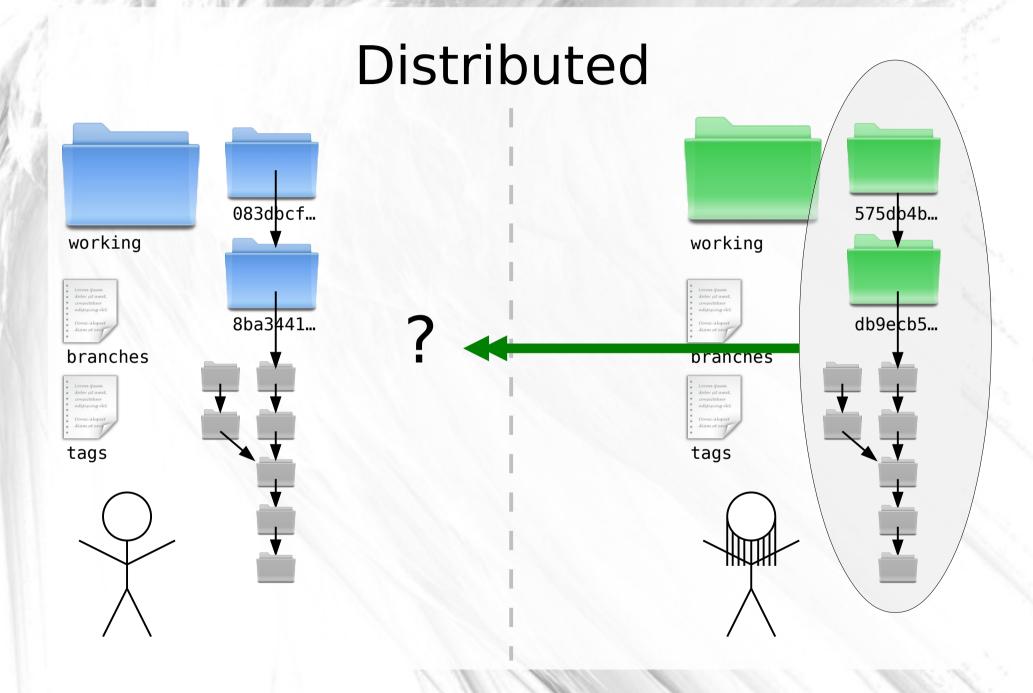
2009-05-21 23:45:01 parent: snapshot-113 author: Zoe <zoe@z.oe>

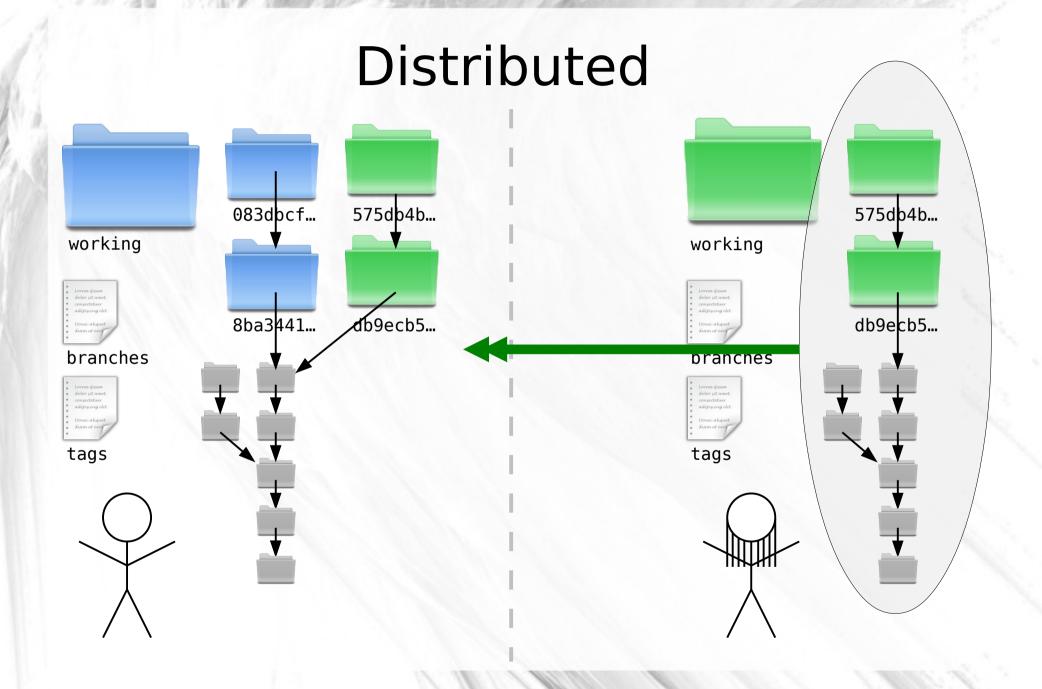
message

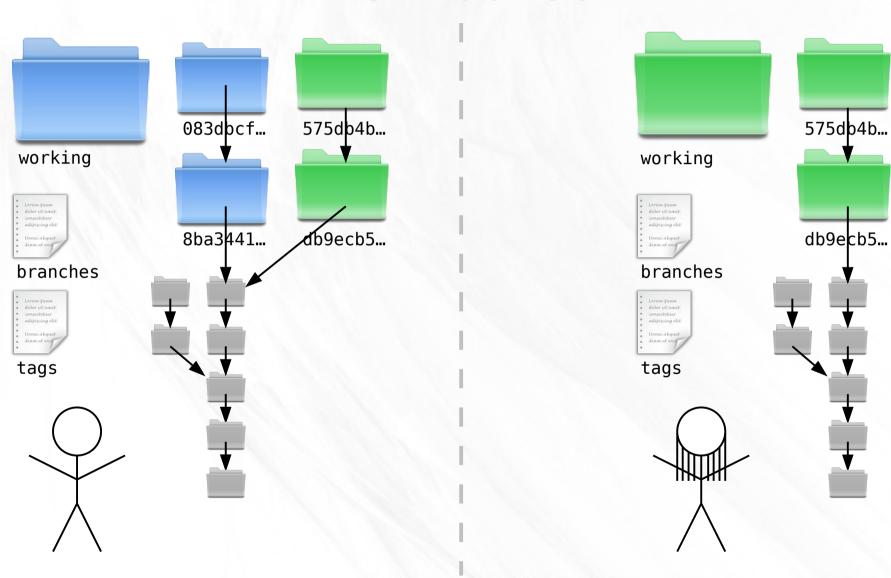
Introduced a new foo,
and reset the bar to
xyzzy.



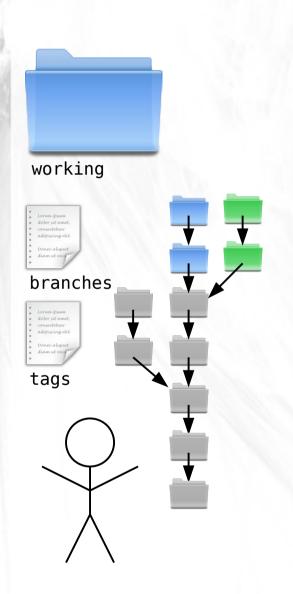


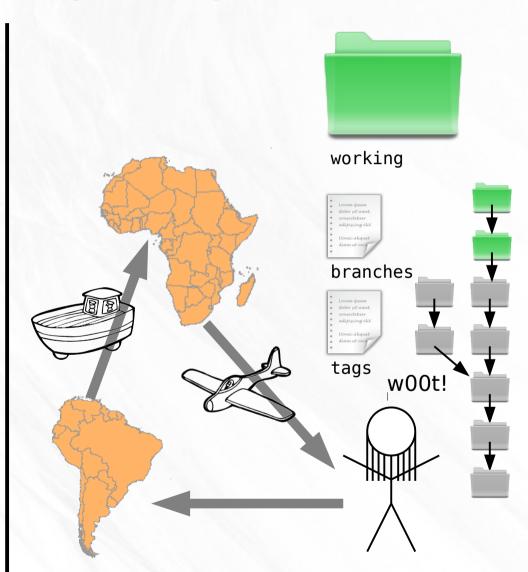




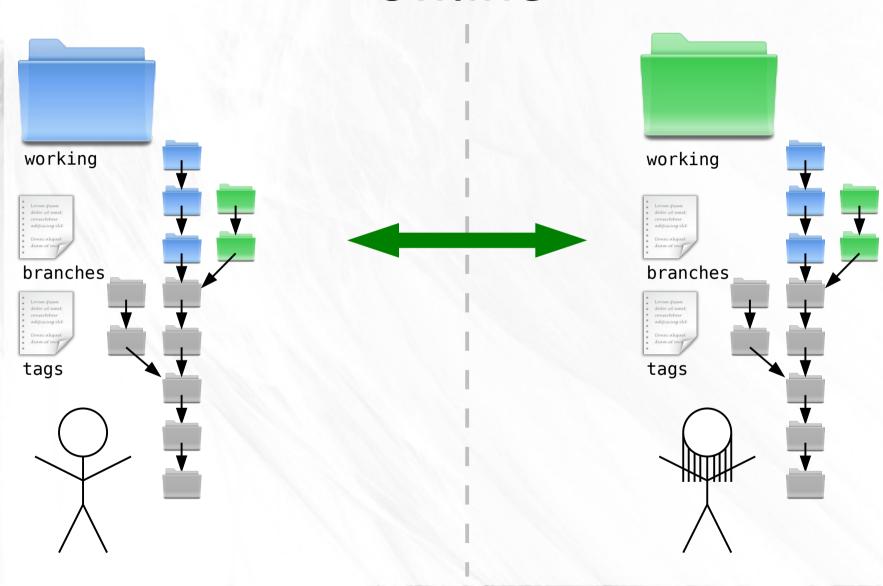


Offline

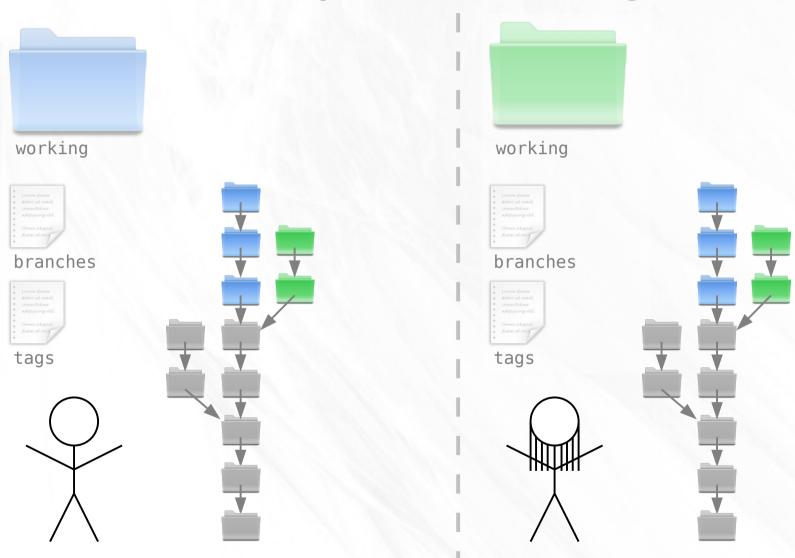




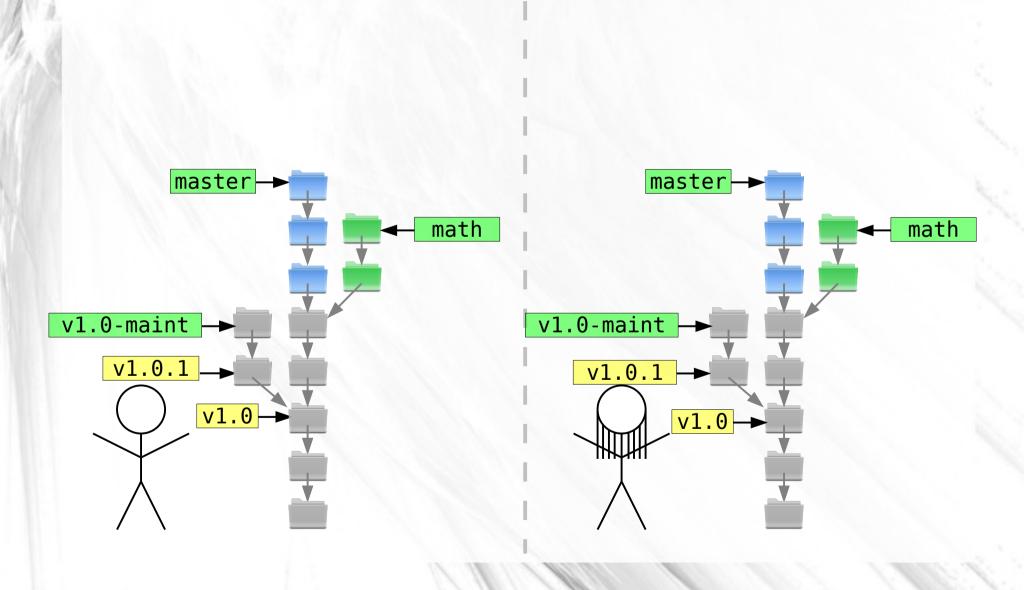
Offline



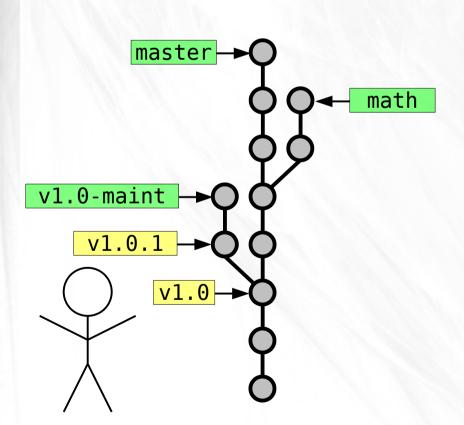
(simpler drawings)

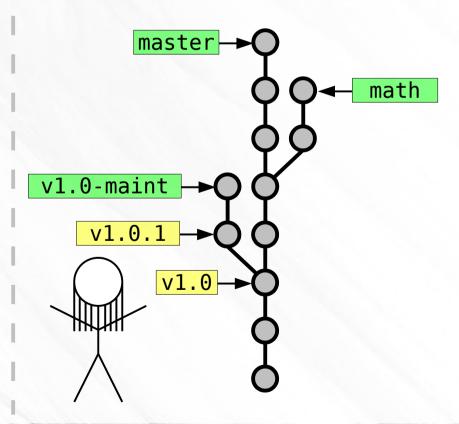


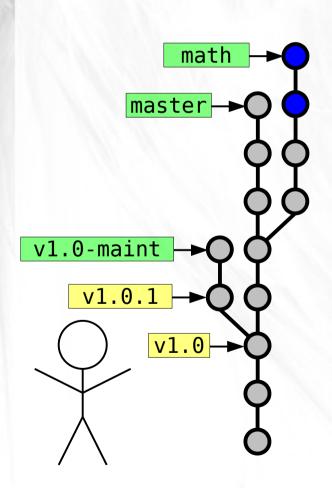
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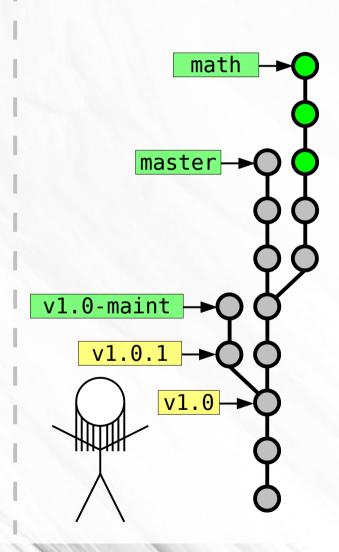


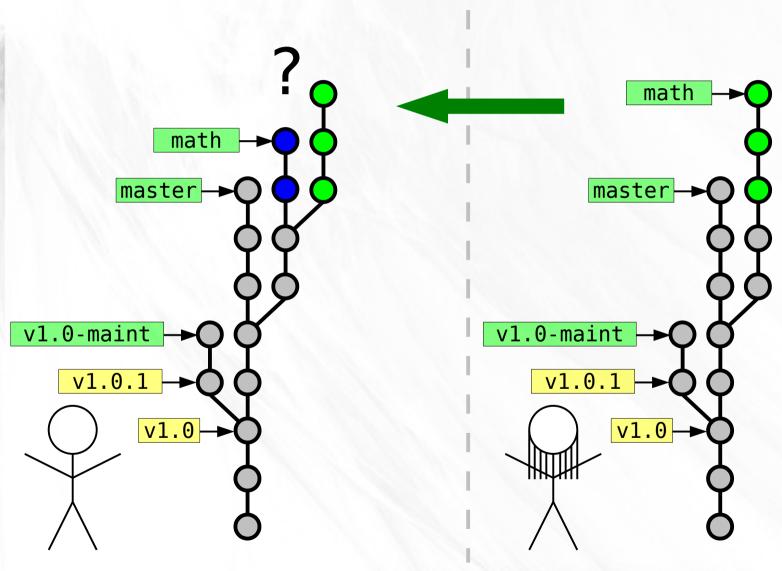
(simpler drawings)

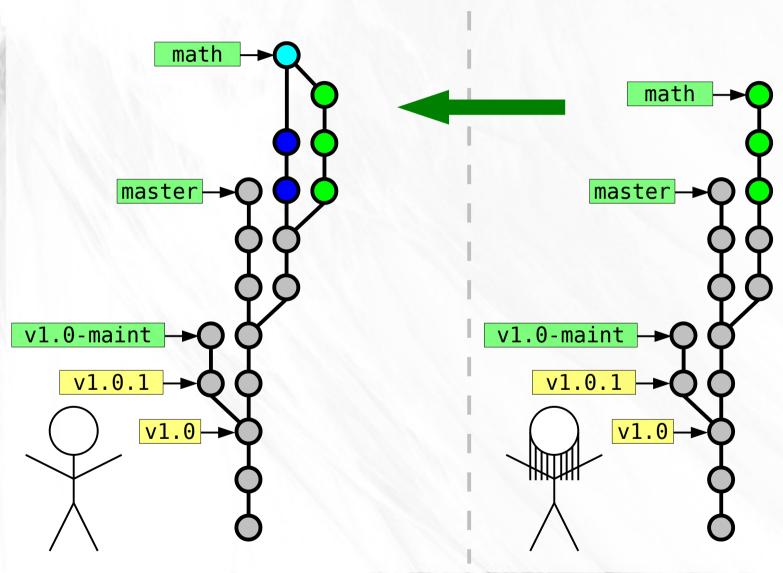


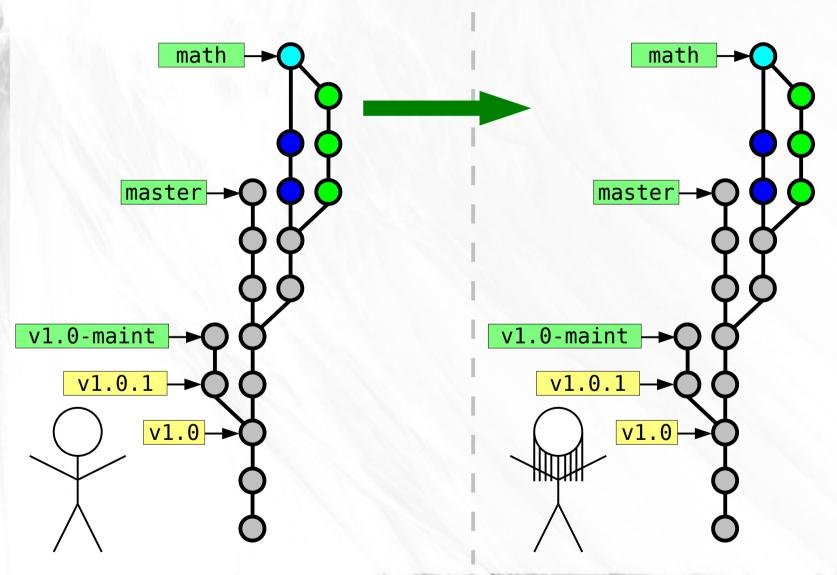


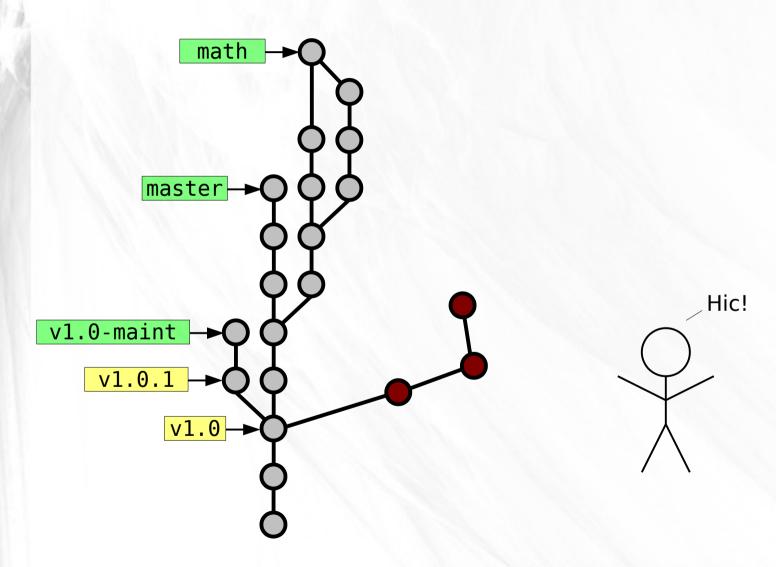


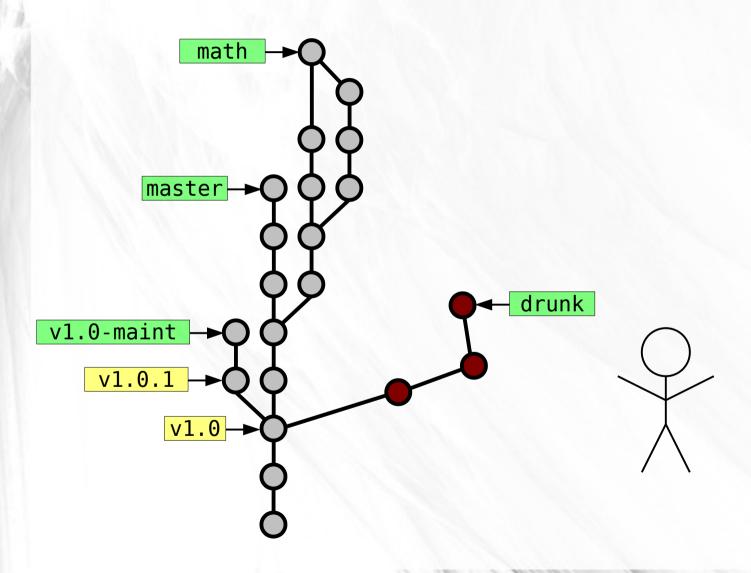


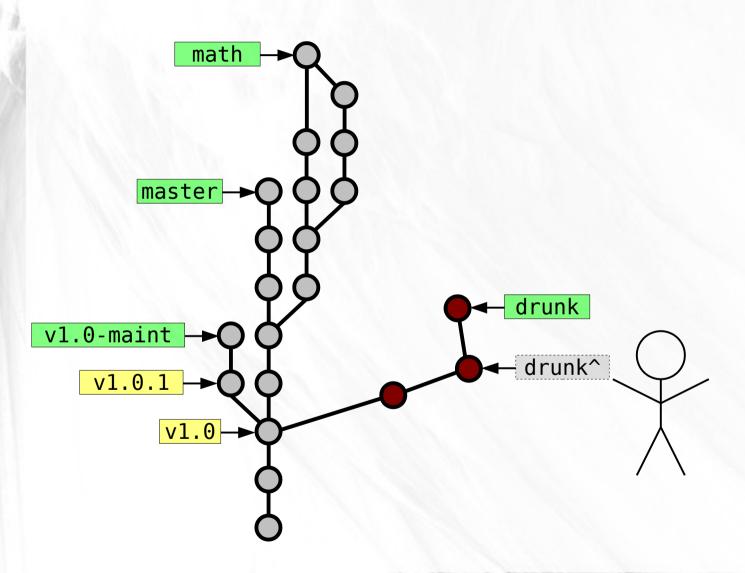


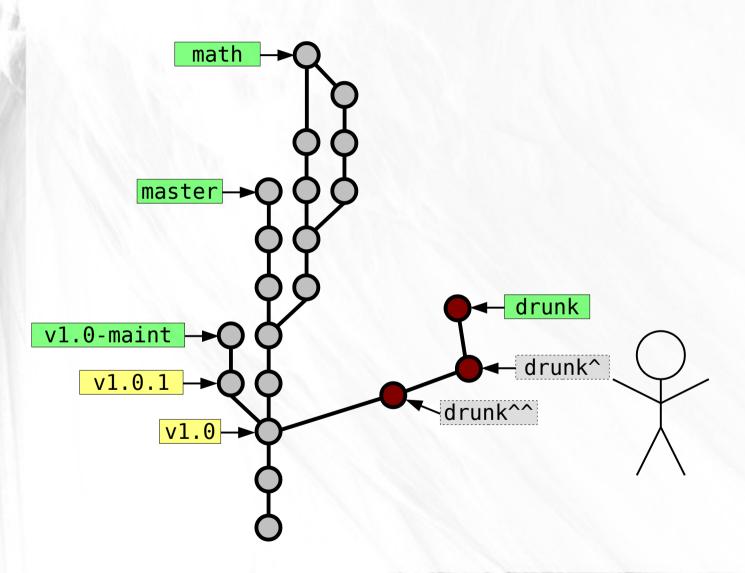


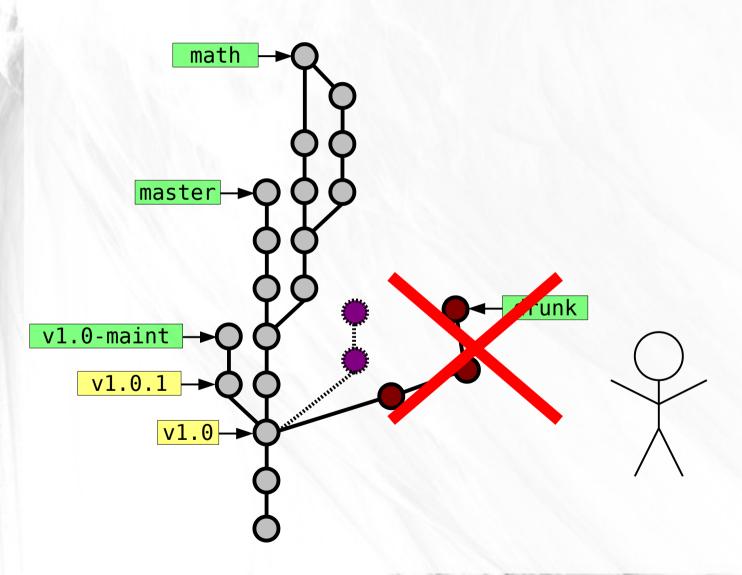


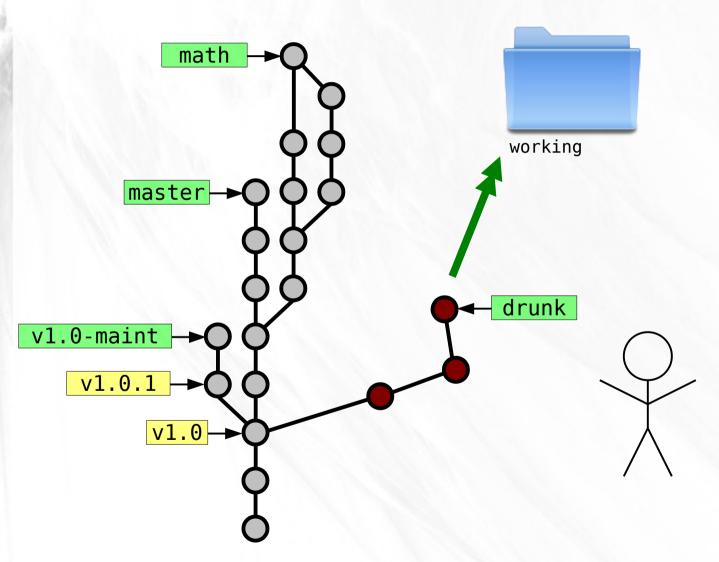


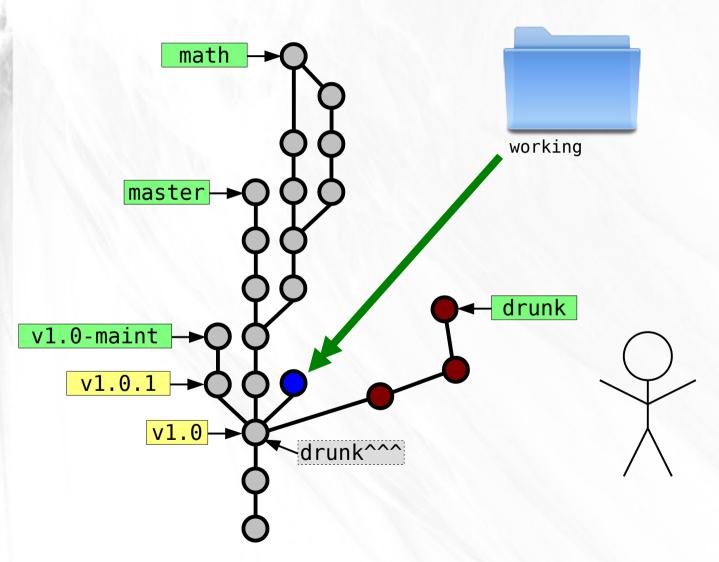


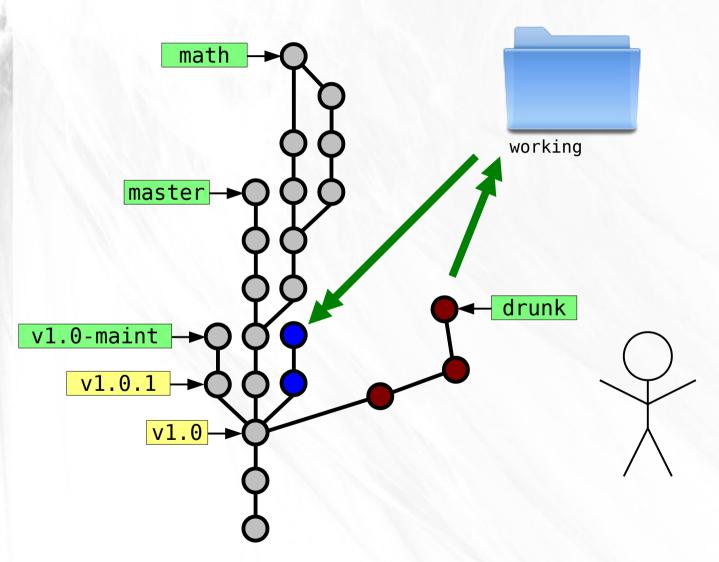


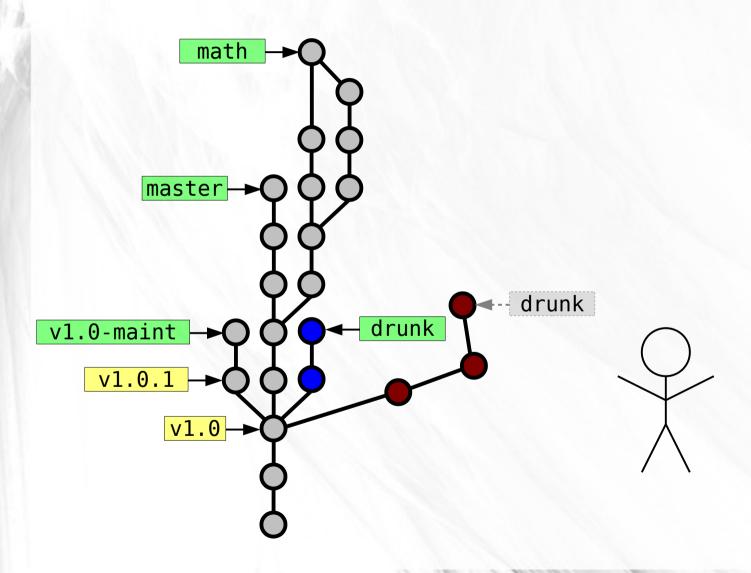


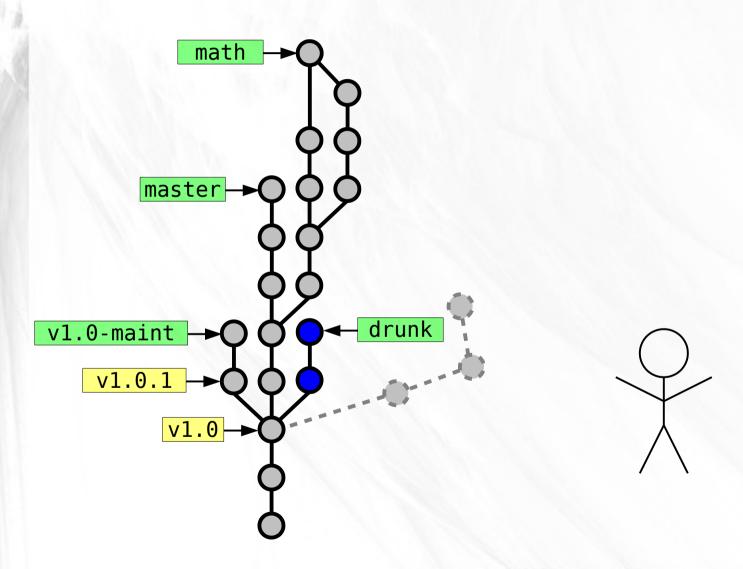


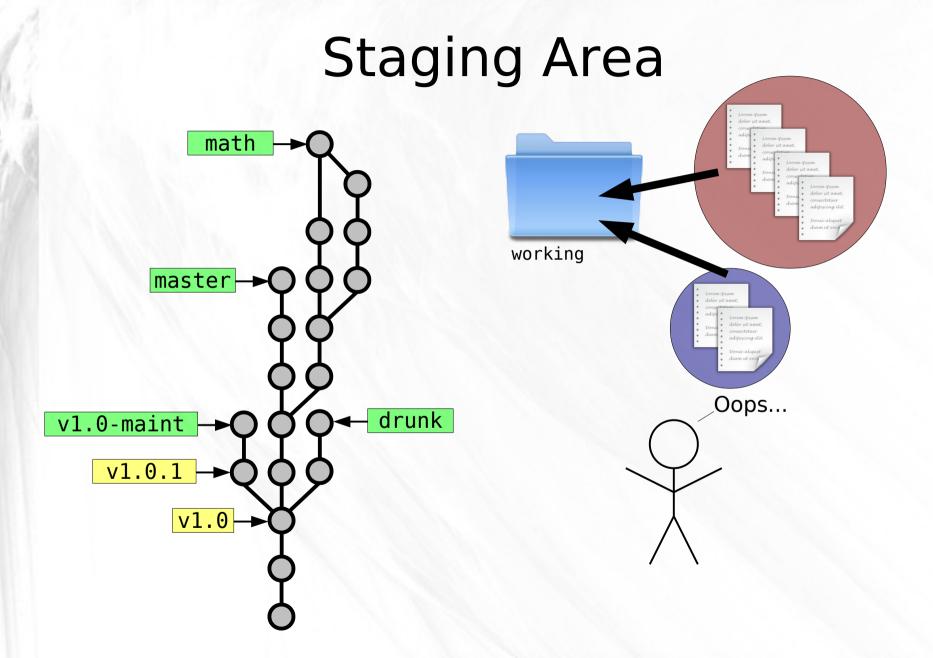




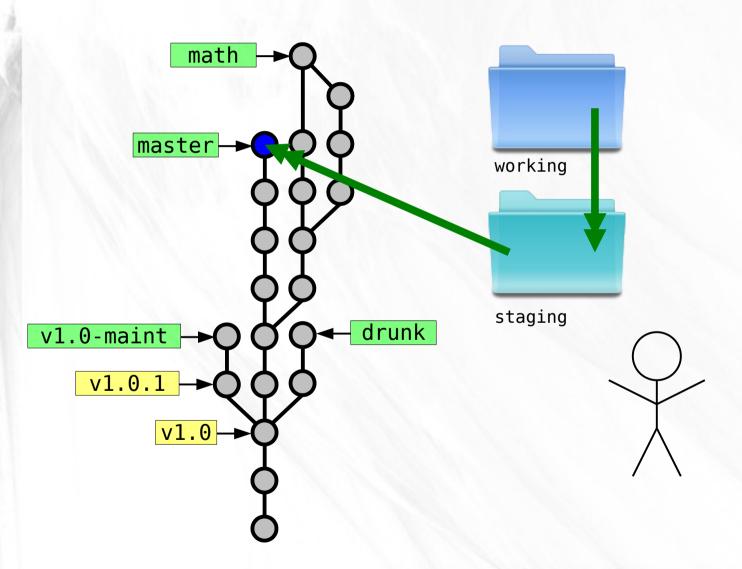


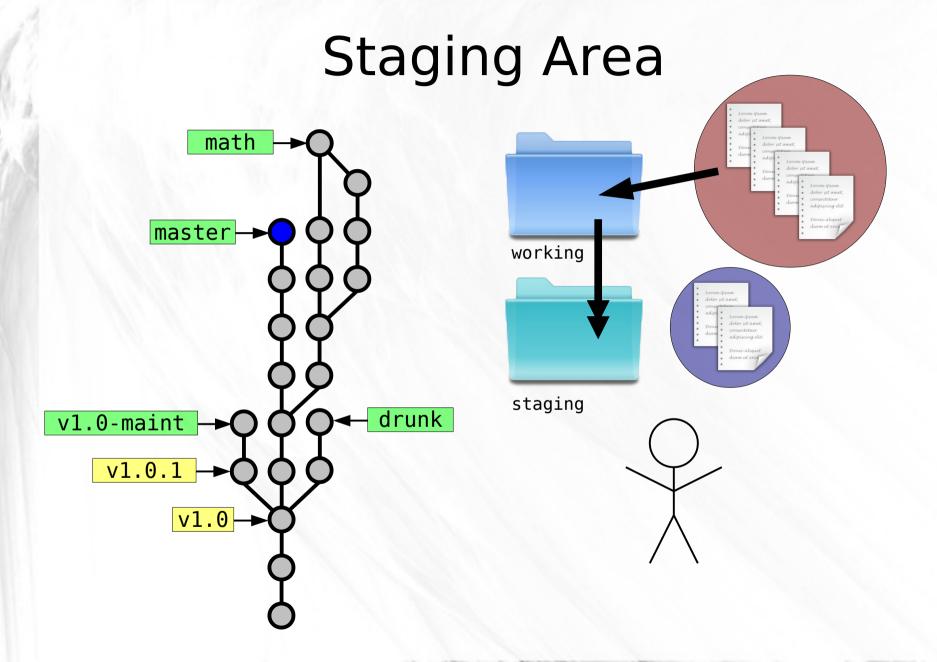


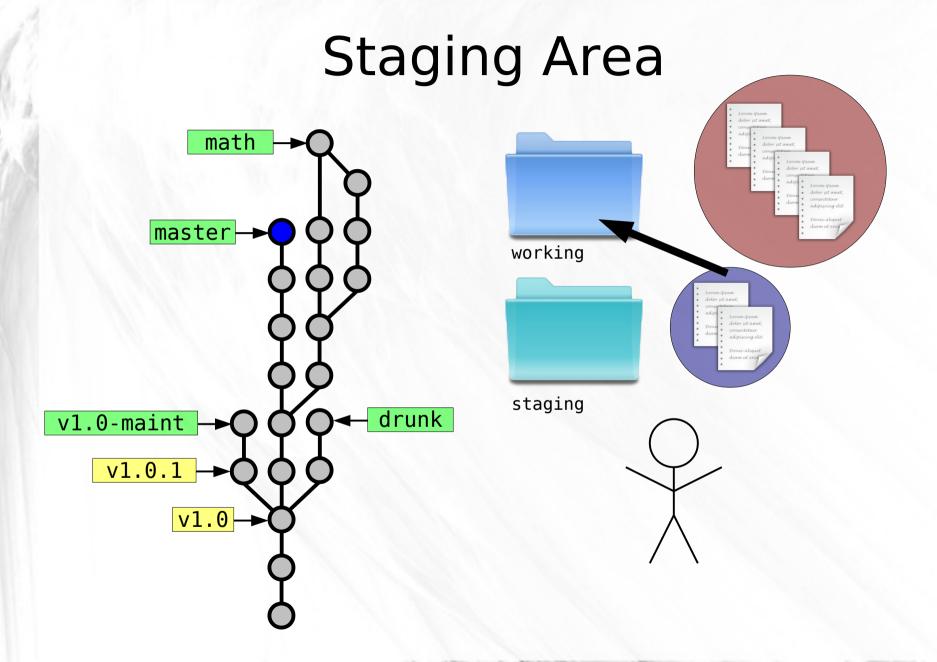




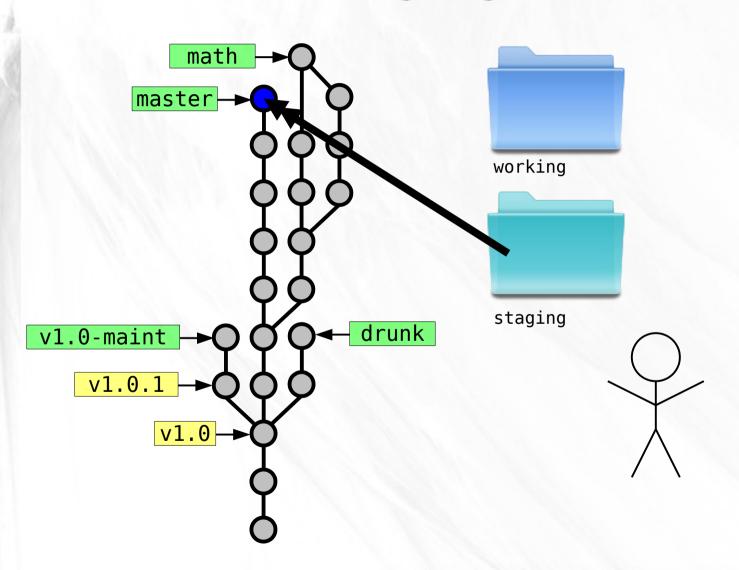
Staging Area



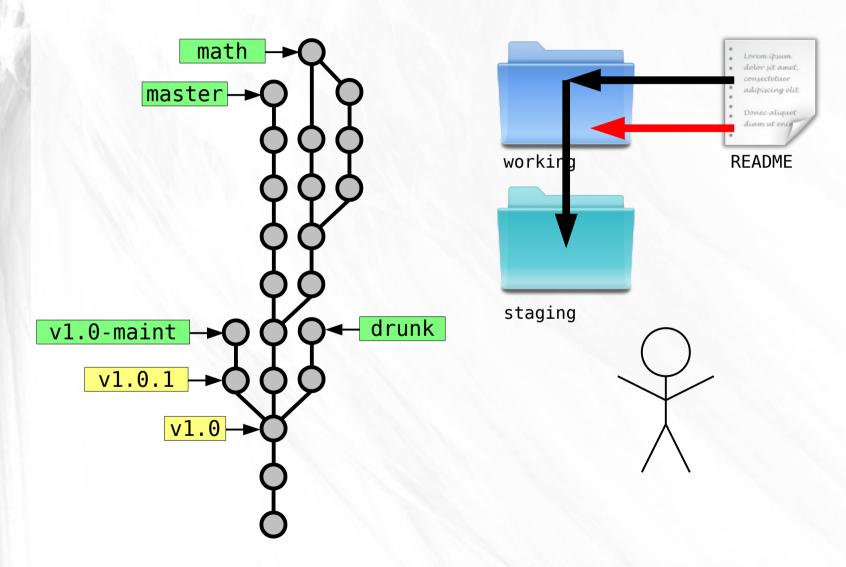


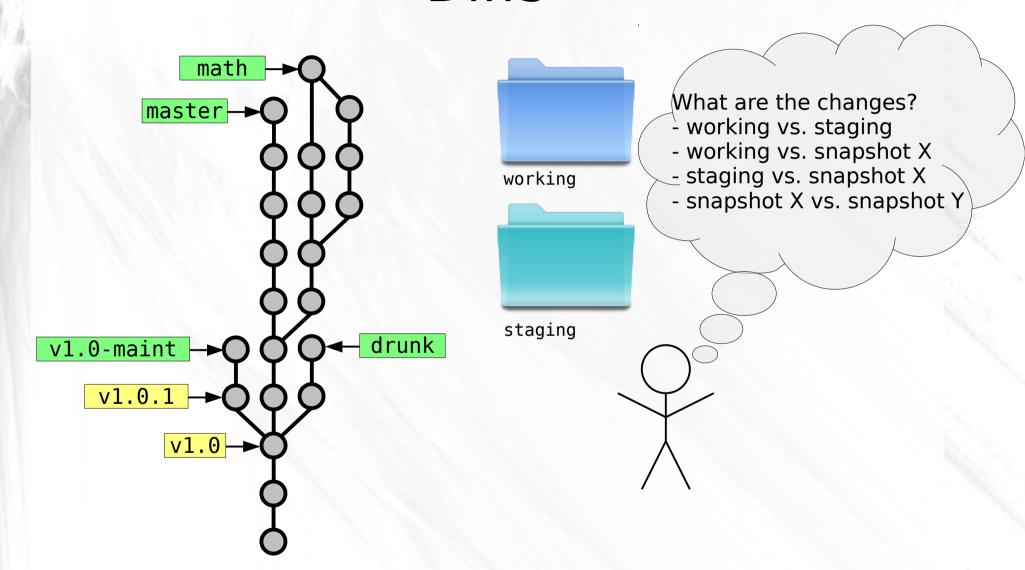


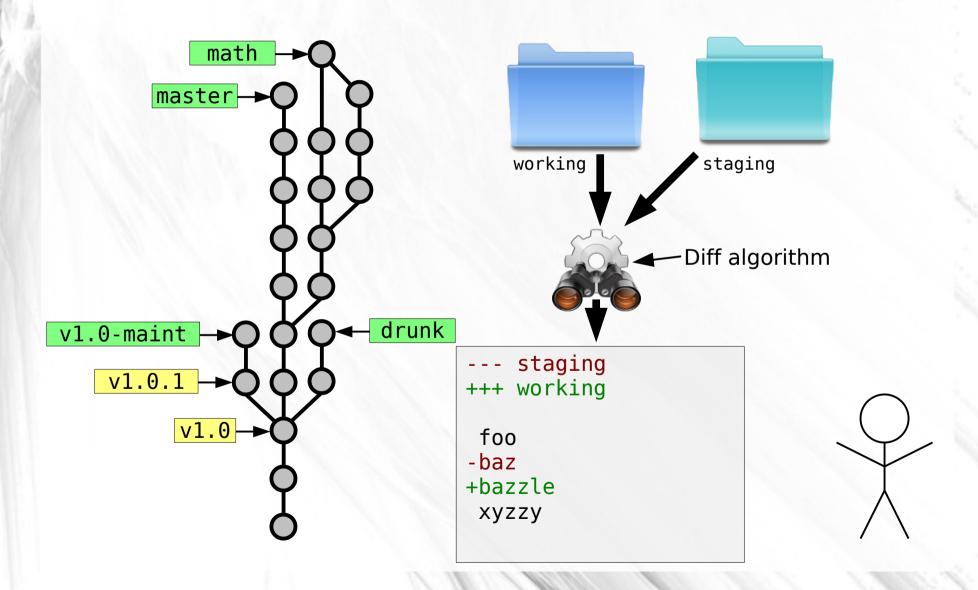
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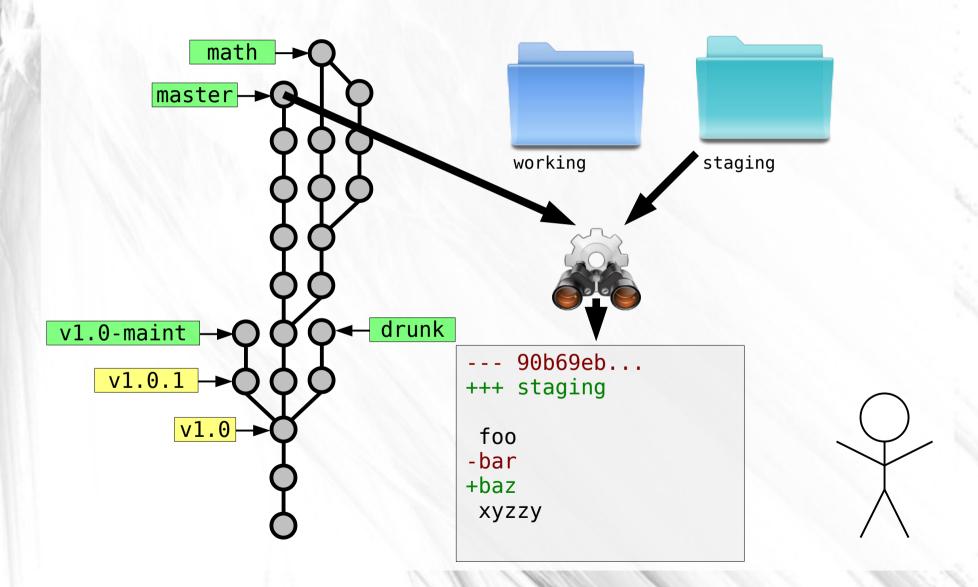


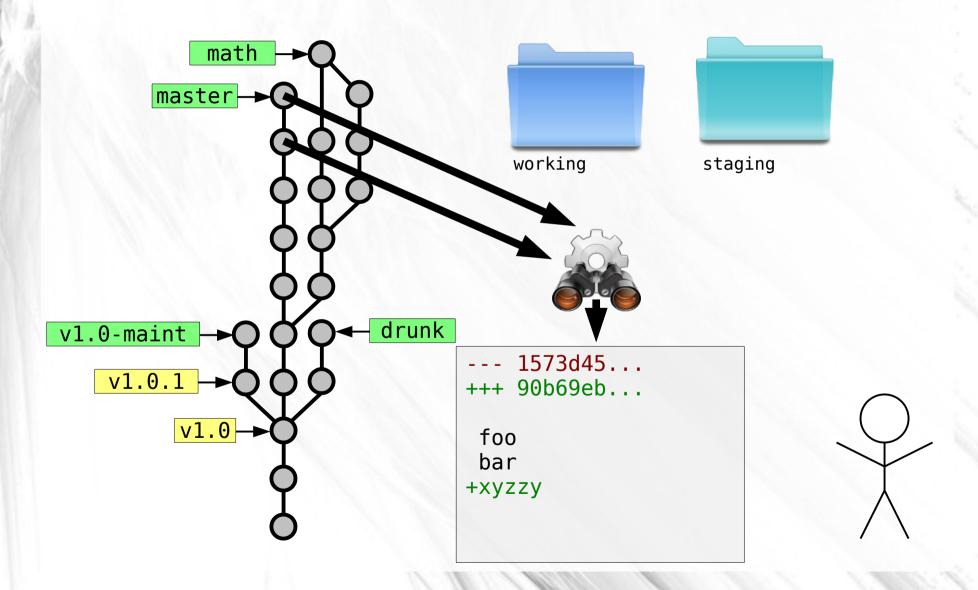
Staging Area

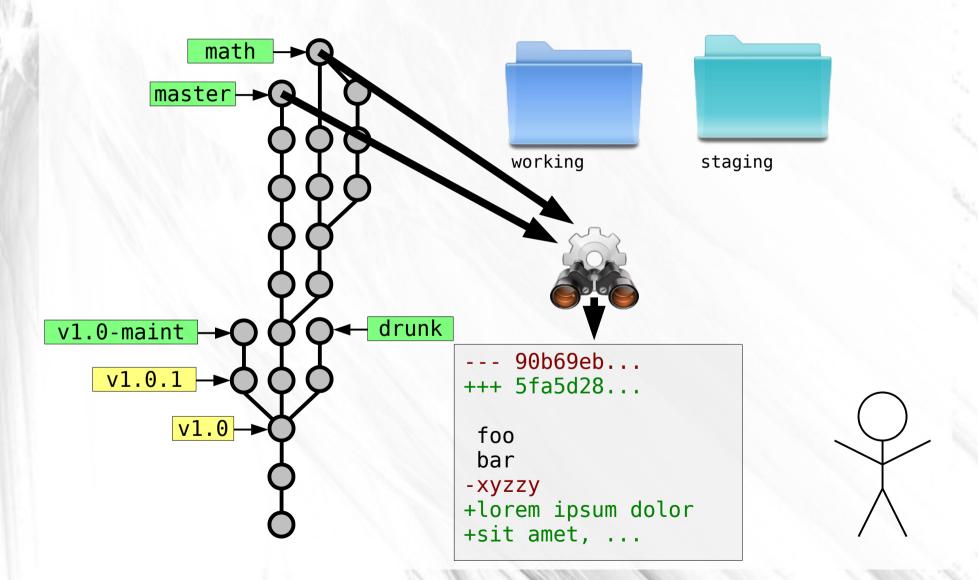


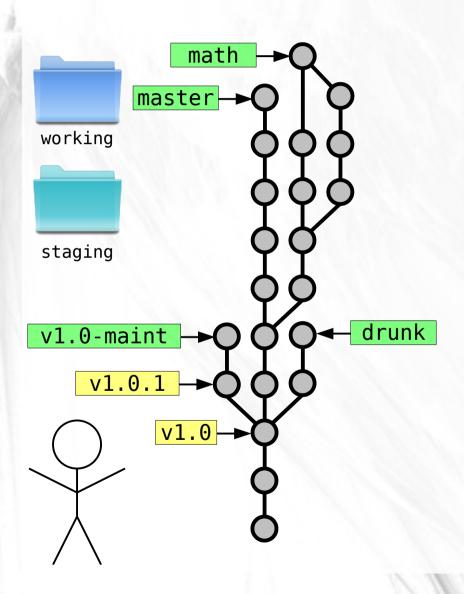


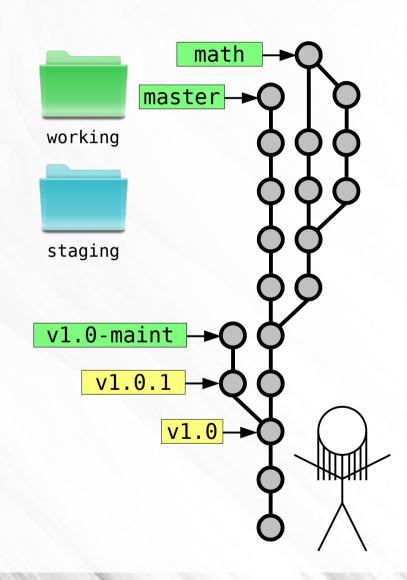


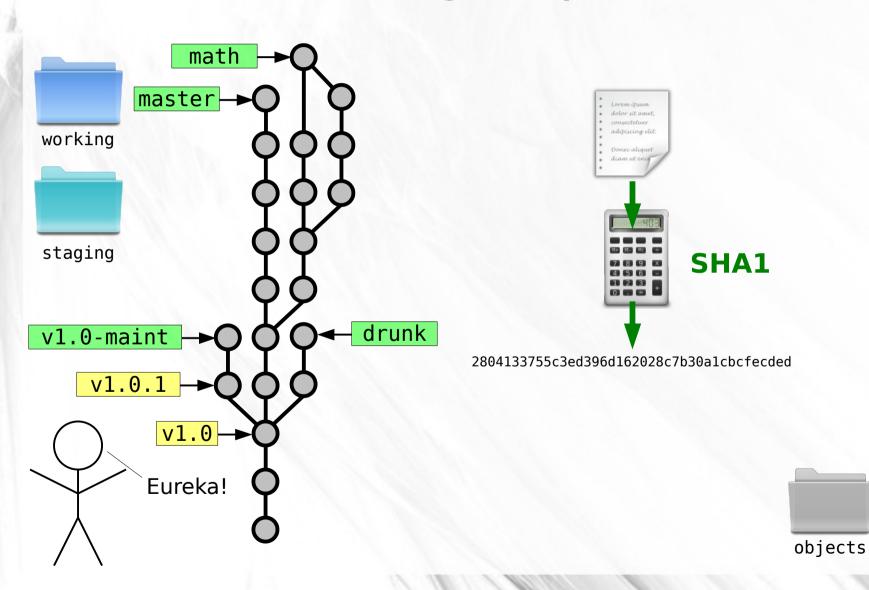


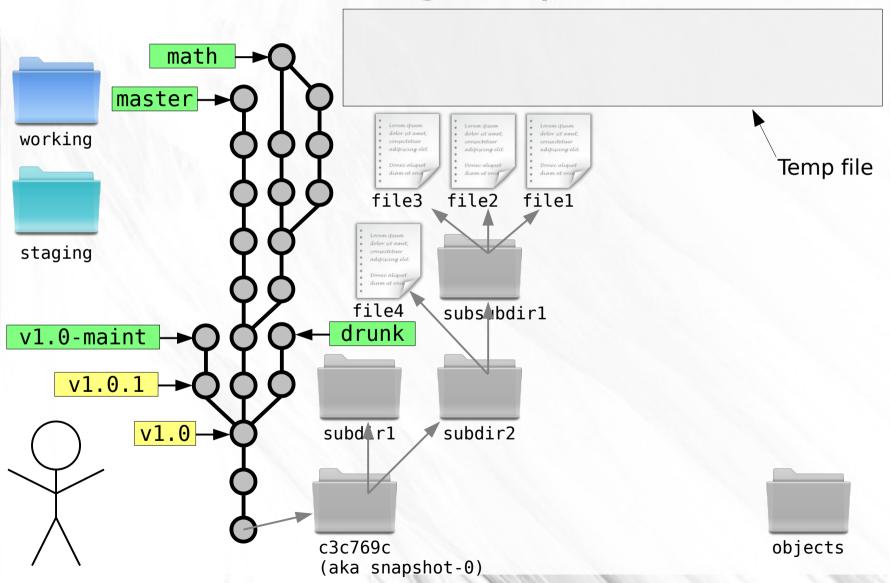


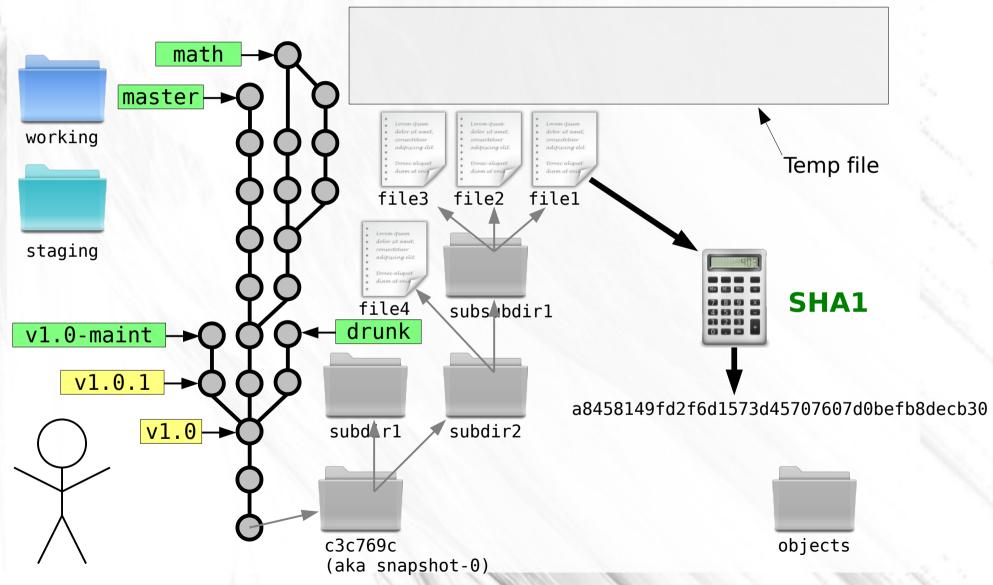


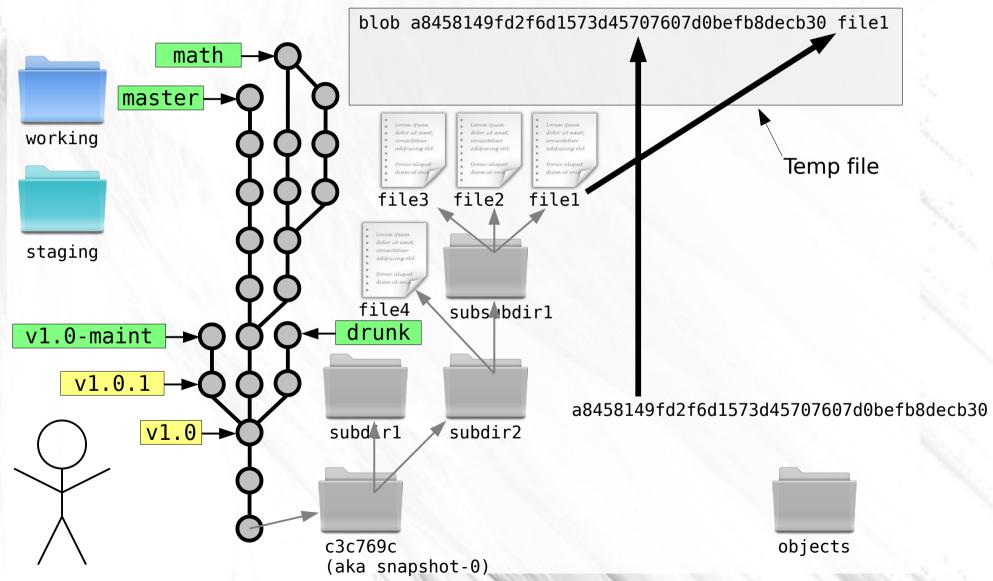


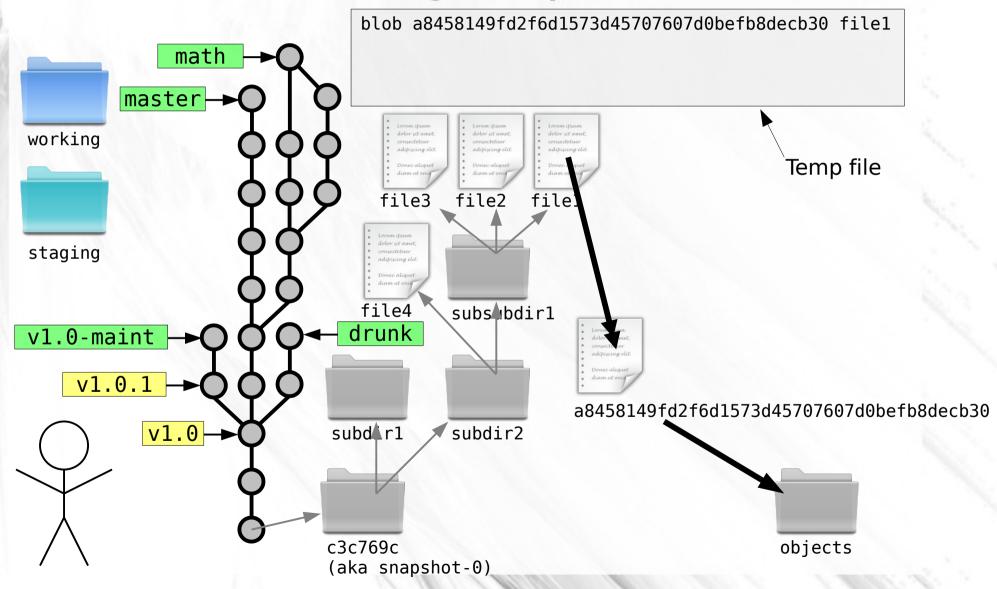


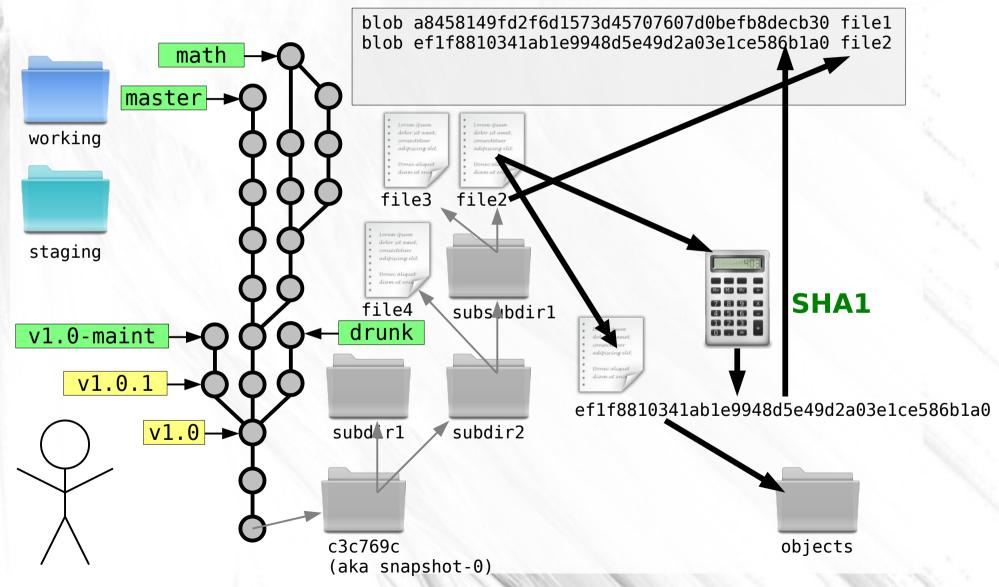


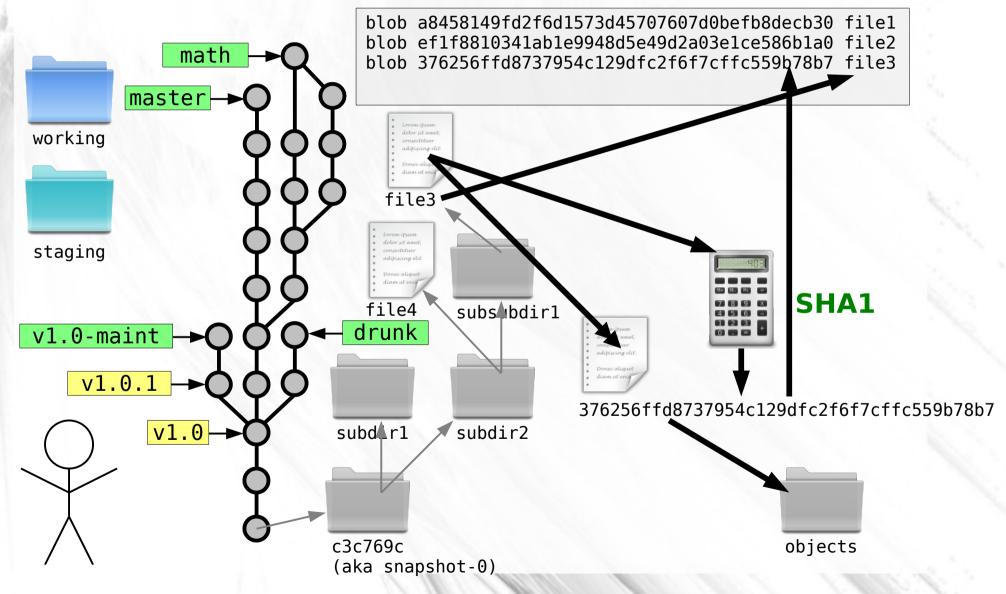


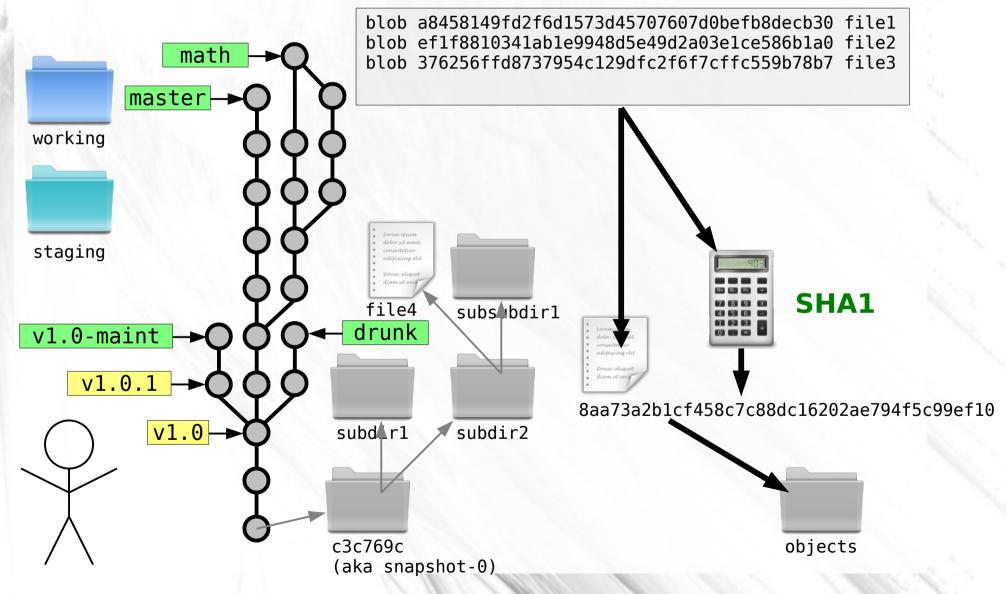


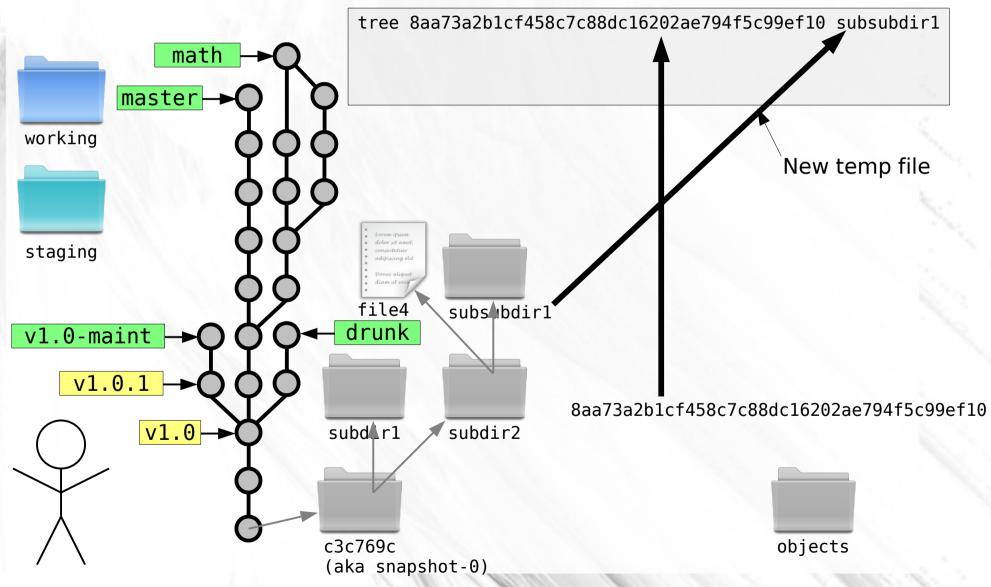


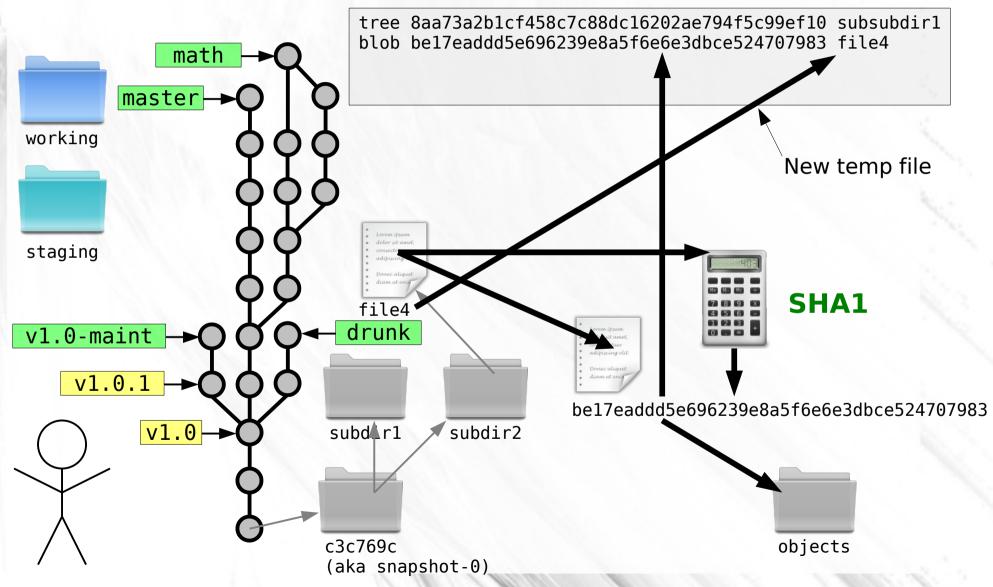


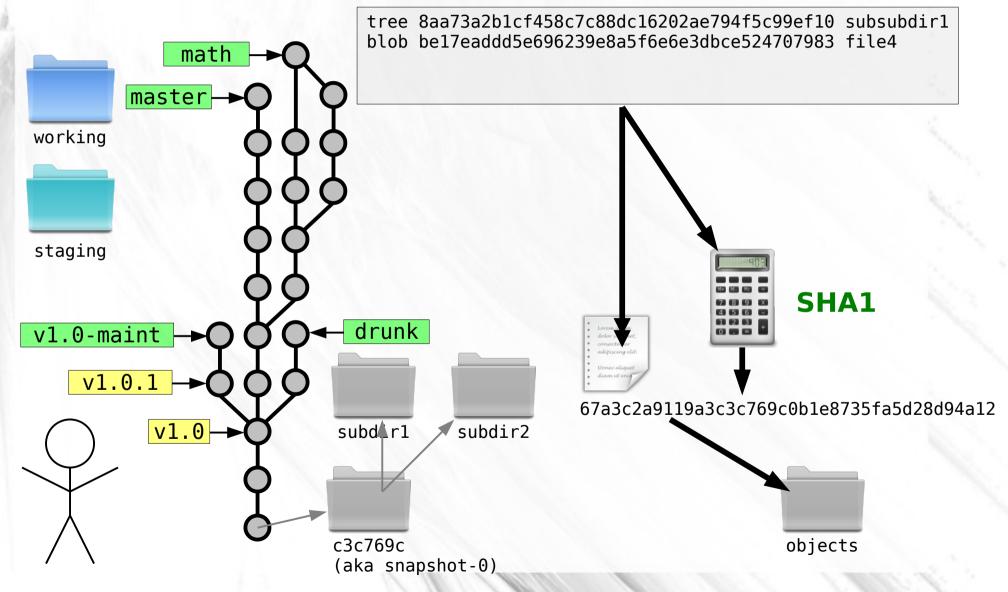


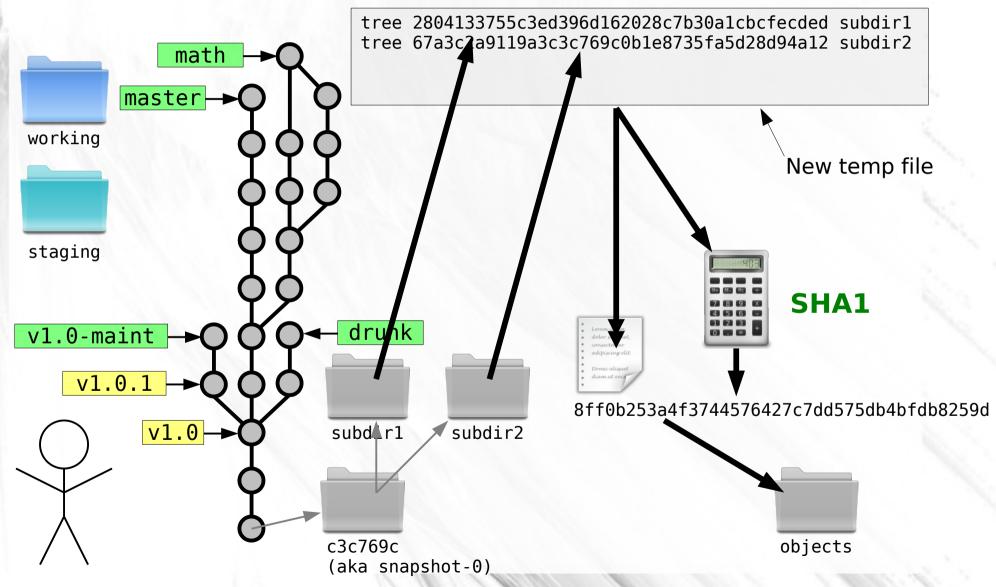


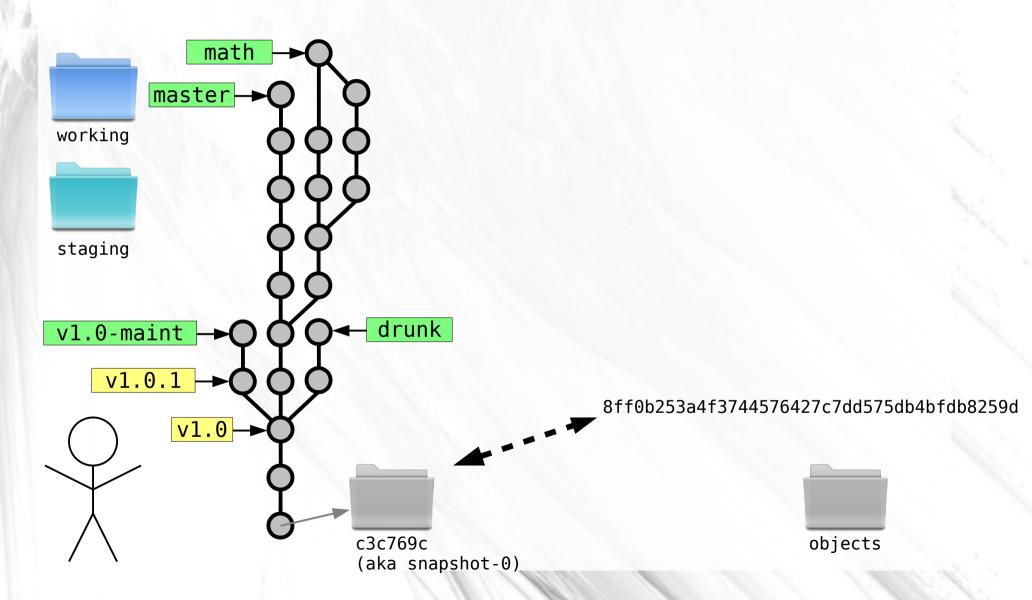


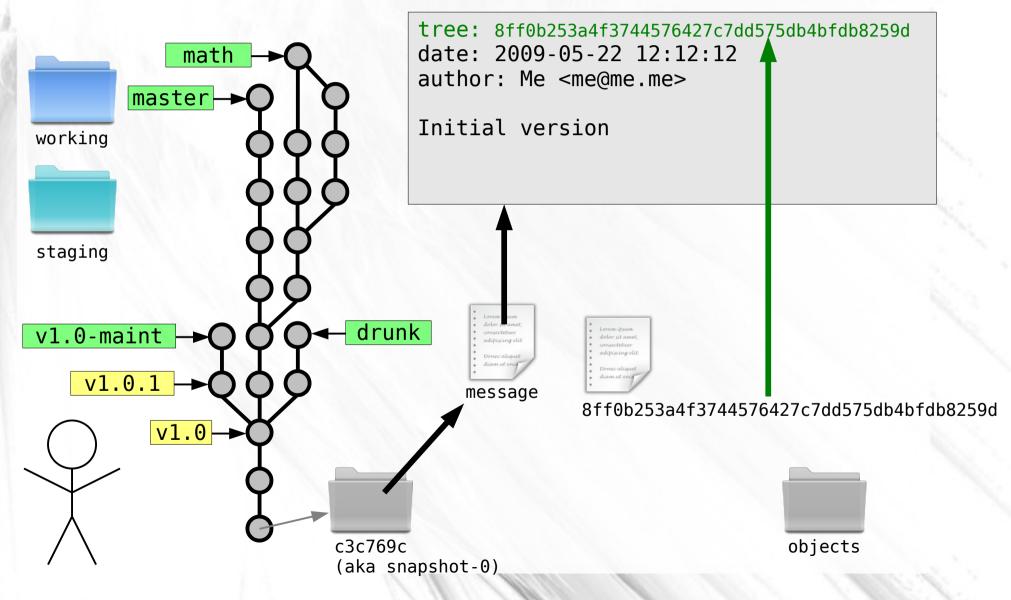


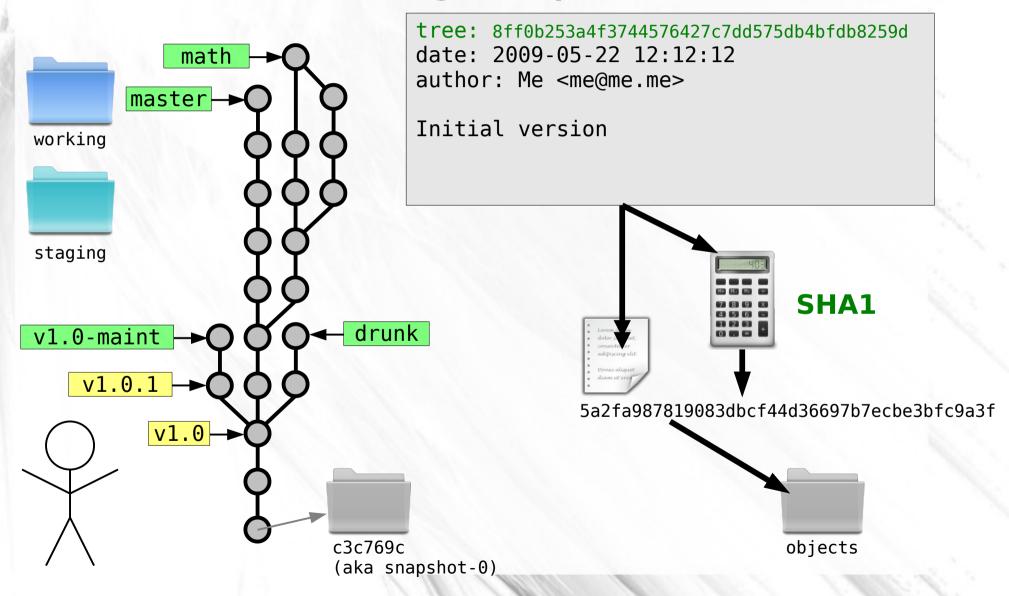


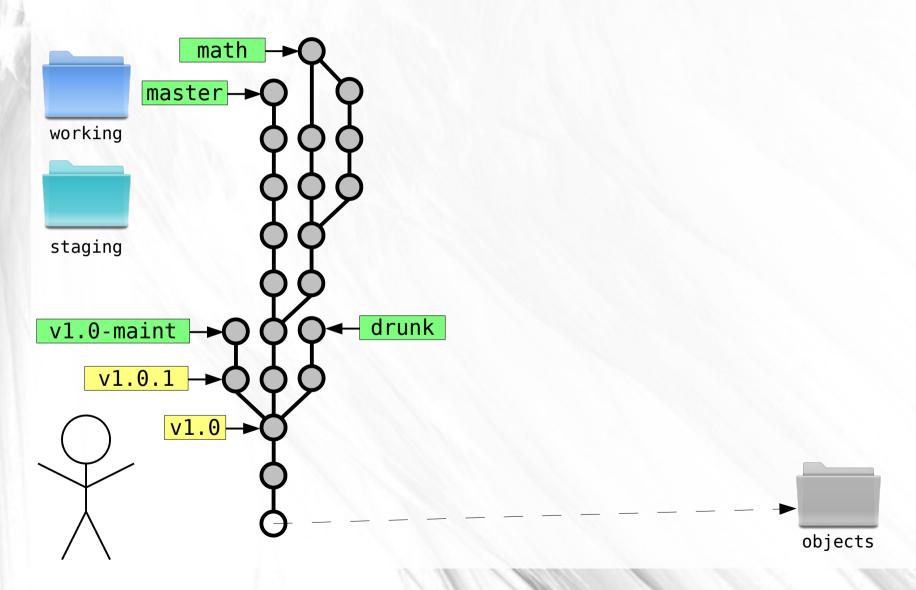


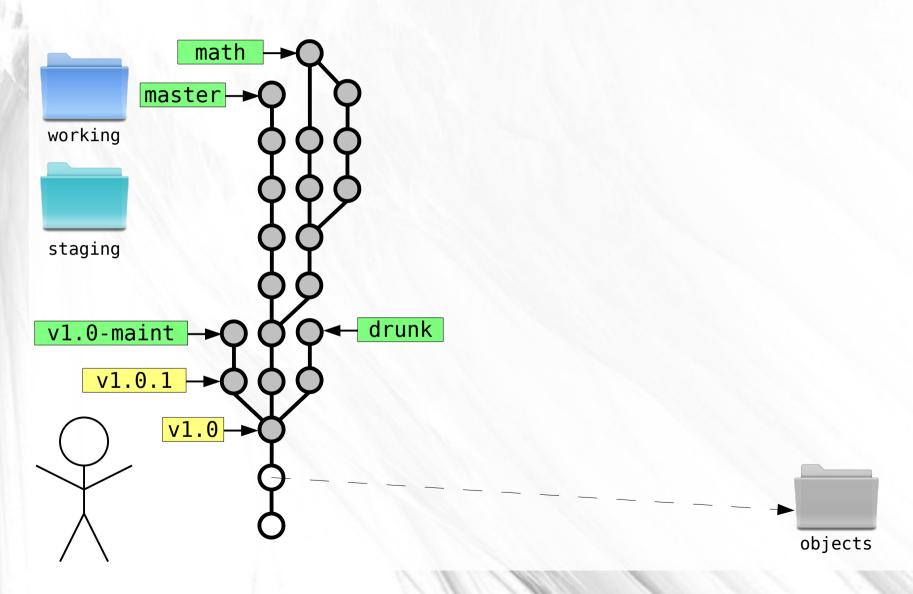


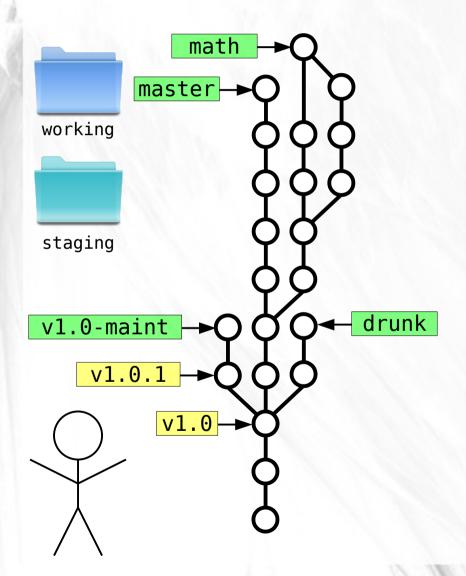






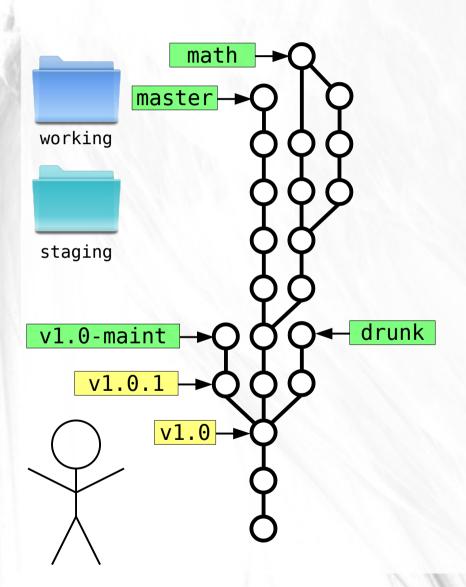


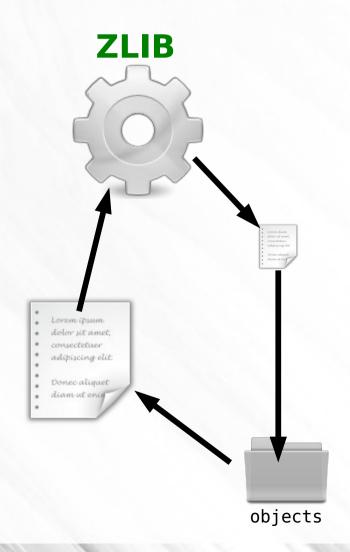




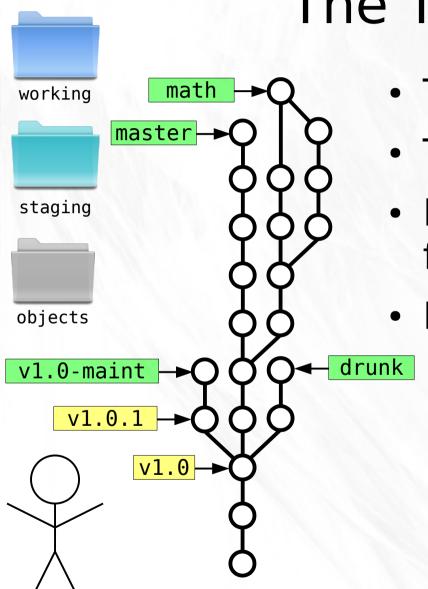


Compressing Blobs





The True Git

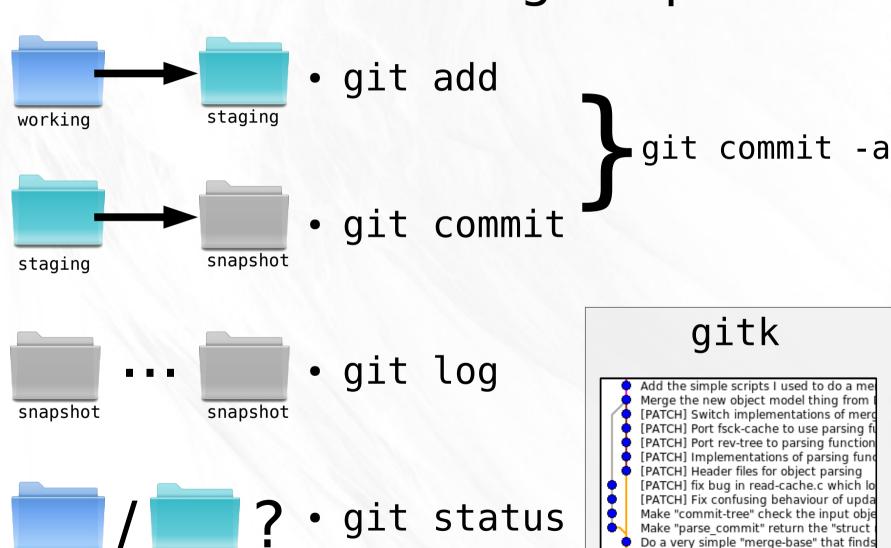


- TADAA!
- This is pretty much Git
- Nicer command line tools for all these operations
- Many, many other tools

Commands: Getting Started

- First, tell Git who you are:
 - git config --global user.name "My Name"
 - git config --global user.email "my@email.address"
- Get help:
 - git <command> -h
 - git help <command>
- Start a new Git repository:
 - git init

Commands: Making snapshots



staging

working

Make "rev-tree.c" use the new-and-impro

Commands: Diffing



snapshot

snapshot

Commands: Branches & Tags

• git branch

• git branch
branch>

• git checkout <branch> -

• git tag -l

• git tag <tag>

git checkout -b ...

Commands: Fetching & Merging

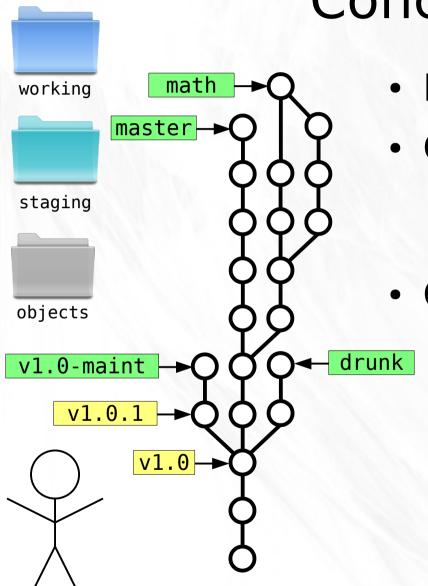
• git remote add <name> <URL>

• git fetch <name>

git pull

• git merge <name>/<branch>

Conclusion



- Keep this parable in mind
- · Git is simple and powerful

One more thing:

git reflog

Where to go next?

- Git homepage: http://git-scm.com
- Pro Git: http://git-scm.com/book
- Git Reference: http://gitref.org
- GitHub: http://github.com
- Gitorious: http://gitorious.org

Questions?

- Thanks for your attention!
- These slides are available at: https://github.com/jherland/git_parable
- Reach me at <johan@herland.net>

