Source Control and Git

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Source Control

Keep track of files.

Collaborate on the same project.

Know who to blame.

Git

Distributed.

Modern.

Cool.

FORGET ANYTHING ELSE YOU KNOW.

Concepts

Just a bunch of snapshots & labels.



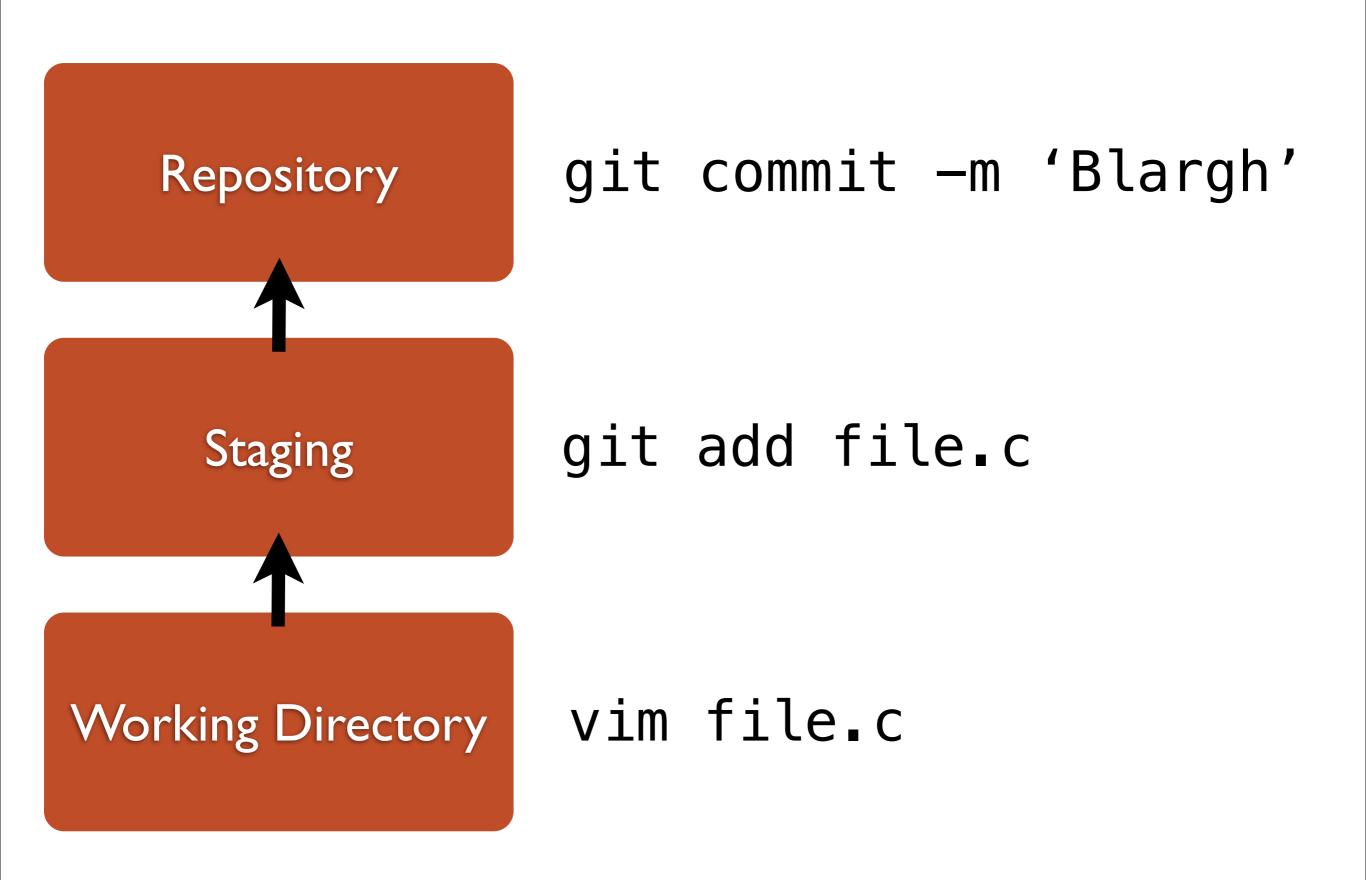
Getting Git

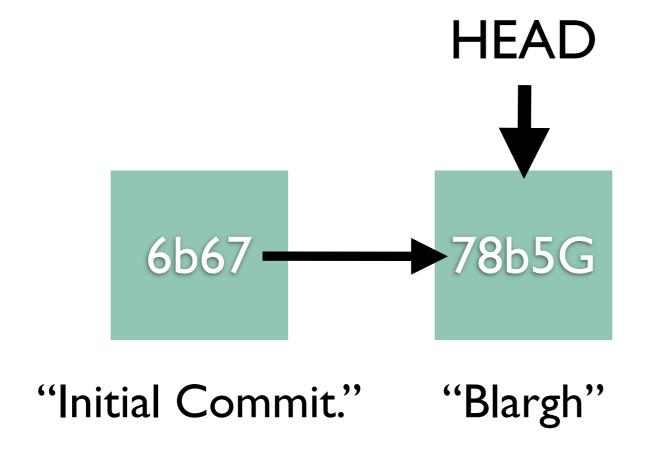
```
Debian/Ubuntu: # apt-get install git
```

Mac (or Xcode): \$ brew install git

Windows: mysysgit

Committing





\$ git log

commit be0bbled7a722cfd569494d1ee2d7f22164a6019

Author: Nick Charlton < hello@nickcharlton.net >

Date: Sun Feb 26 16:41:43 2012 +0000

Commit message..

commit dcc5c23c9a3a391461070751bf739b648605eec9

Author: Nick Charlton <hello@nickcharlton.net>

Date: Sun Feb 26 14:22:31 2012 +0000

Commit message.

commit 6f9a28631ab8ce9c8aa29039f538c36b8308791e

Author: Nick Charlton < hello@nickcharlton.net >

Date: Sun Feb 26 14:09:34 2012 +0000

A very long commit message. Somewhere around 75 chars.

commit 86d9f3c21f1720582f59a8fdd38279968c69a9da

Author: Nick Charlton < hello@nickcharlton.net >

Date: Sun Feb 26 11:07:20 2012 +0000

You can also use multiple lines.

Then you can fit in the why.

Messages

Fixed stuff.

Fixes loading bug.

- * View wasn't instantiated correctly.
- * Need to alloc before using.

Branching

Split off from your main code base. Implement new features.

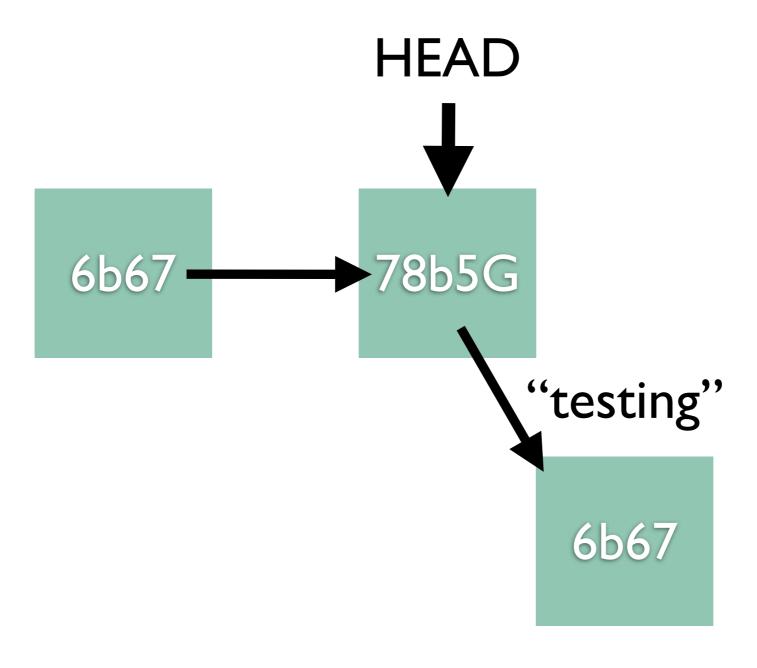
Fix bugs.

Try things out.

Practically instantaneous.

```
$ git branch new_branch
$ git checkout new_branch
```

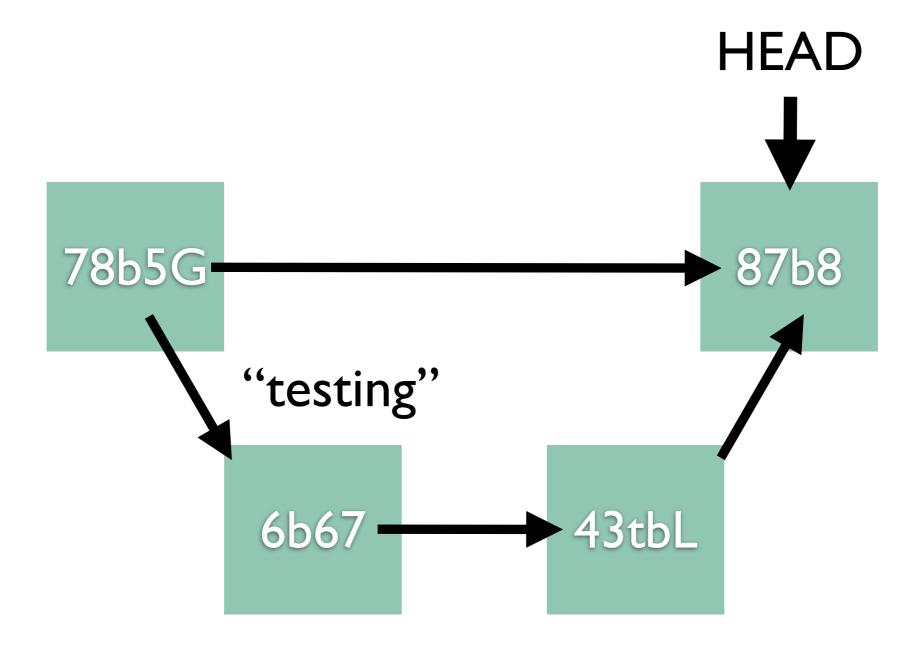
\$ git checkout -b new_branch



Merging

Join branches together. Usually completely automatic. Pretty damn fast, too.

\$ git checkout master
\$ git merge new_branch



Remotes

Collaborate. Back up. Even deploy.

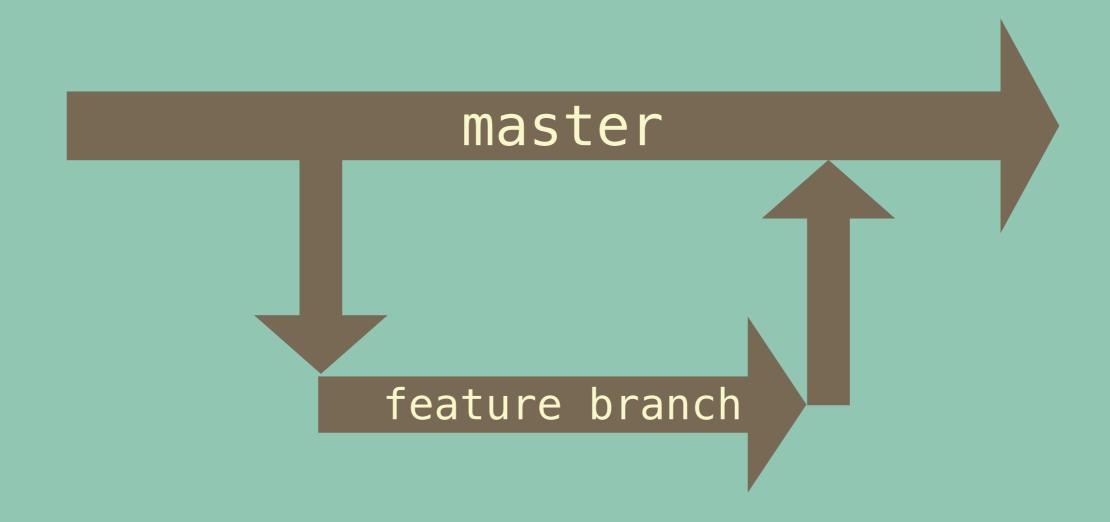
```
$ git remote add origin <url>$
$ git push origin master
```

Tagging

Ear mark commits. Handy for version numbers. Or other milestones.

\$ git tag v1.0

A Workflow



More

- Rebase
- Submodules

• ???

Resources

- Short Guide: http://url/
- Pro Git Book: http://progit.org/
- Git Reference: http://gitref.org/
- GitHub: https://github.com/

Thanks.

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