

Version Control with Git

March 2017, Winona State University

- ▶ Lesson plan taken from Software Carpentry:
<http://swcarpentry.github.io/git-novice/>
- ▶ This presentation is on GitHub:
<https://github.com/christopherphan/Winona-SC-git>

Why version control?

`http://www.phdcomics.com/comics/archive.php?comicid=1531`

Why version control?

[Y]ou can now freely throw away bits and pieces, secure in the knowledge that if you actually want them back, they are there in the revision control system. Interestingly, almost nobody actually uses this feature. Revision control systems are not there to save your old work. They are there to give you permission to throw that old work away.

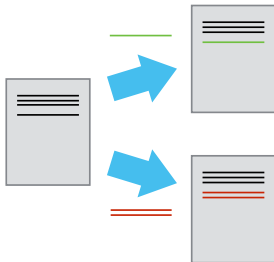
–Peter Boothe¹

¹Quoted at <http://tex.stackexchange.com/a/1135/52>

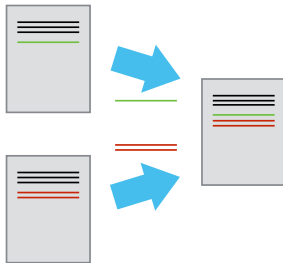
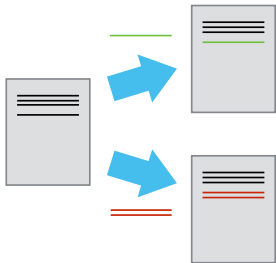
How it works



How it works



How it works



Format for git shell commands

`git verb`

E.g.:

- ▶ `git add`
- ▶ `git commit`
- ▶ `git push`
- ▶ `git config`

Set-up

```
$ git config --global user.name "Vlad Dracula"  
$ git config --global user.email "vlad@tran.sylvan.ia"  
$ git config --global color.ui "auto"  
$ git config --global core.editor "nano -w"
```

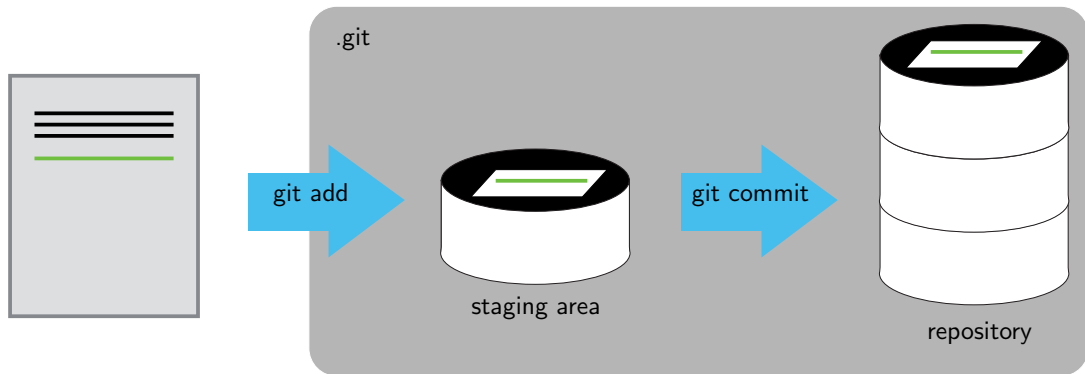
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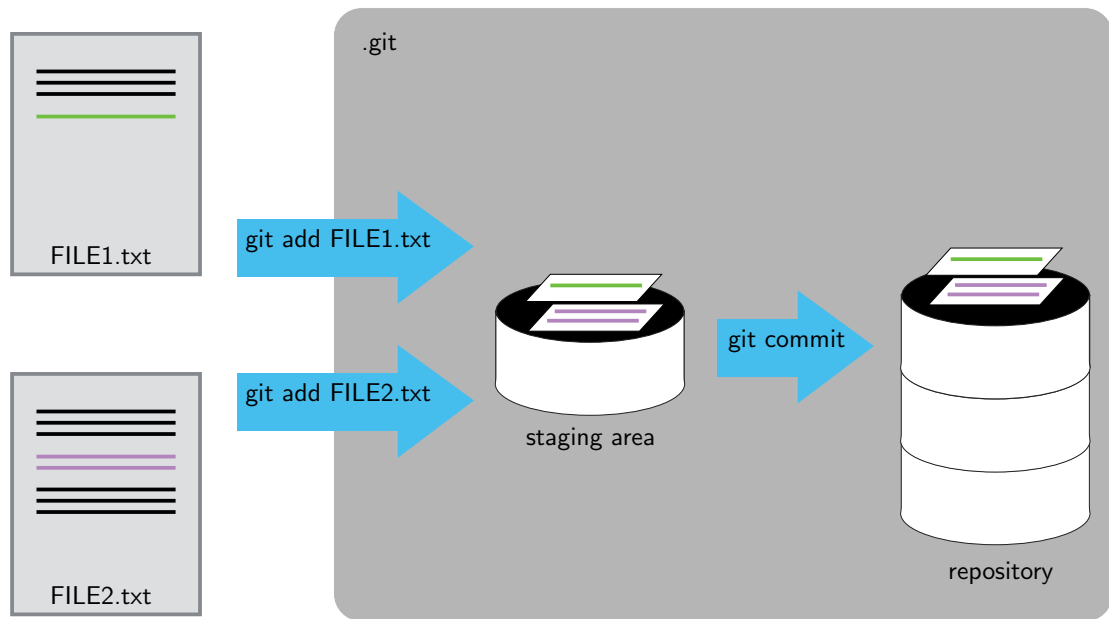
Can always get help, e.g.:

```
$ git config -h  
$ git config --help
```

Staging area



Committing



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