



Collaborating Using GitHub ...



GW Libraries Workshop
October 31, 2017

go.gwu.edu/gwlibgithubworkshop

Agenda

- Why GitHub?
- A tour of a repository
- Hands-on:
 - Create your own new repository
 - Collaborate on a repository* (*w/command-line git)
 - Fork an existing repository

Why GitHub?

- Version Control
- Collaboration
- Open (or Not)
- Pricing - free for open, cheap for private, and free for students education.github.com (and /pack)

Tour of a Repository

- Features (just a few!)
 - README.md (showcase your work!)
 - [Markdown](#)
 - Code - history of commits on a branch, and on a file
 - Issues - tags, assignment, releases, comments
 - Watch, mentions, integrations
 - Pull requests
 - Milestones and Releases
 - Comments on issues, commits, etc.
 - Wiki
 - Branches
 - Insights (graphs)
 - Commits (and buttons next to each commit)
 - License

Let's Try It!

Create your own GitHub repository

Collaborate on a repository* with local copies

*

```
/ Collaborating With \  
| GitHub - at the   |  
\ command line!    /  
-----  
      ^ ^  
      (oo)\_____  
      (__) \_____) \/\   
              ||----w |  
              ||     ||
```

```
user31@ip-172-30-3-11:~$ git help
```

Fork a Repository

Advanced Topics

- Merges that require manual merging
- Re-basing
- Squashing
- Reverting

Other Ways To Use Git

- Github Desktop App
- Github Mobile App
- Integrations w/Editors, IDEs, and other apps

Other Uses for Github Repositories (besides code)

- Sharing data
- "Document" collaboration (e.g. legislation)
- Course sites (e.g. [DSCN 6279](#); [ISTM 6212](#))
- Github Sites (e.g. <https://gwu-libraries.github.io/sfm-ui/>)
- Publishing and Citing your code (you can use Zenodo to mint a DOI for a Github repository)
- and more

To Learn More...

- *Pro Git* book, free online: git-scm.com
- Lynda.com: [*Up and Running with Git and GitHub*](#)
- github.com:
 - help.github.com
 - guides.github.com
 - try.github.io (codeschool)
 - services.github.com/on-demand/
 - resources.github.com/webcasts/

Thanks!

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Coding Consultations: go.gwu.edu/coding