

Intro to Working with Github

(and why you want to)

Who am I? Who are you?

- Analyst at the Center for Government Excellence at Johns Hopkins University
- Code for America Fellow working with Miami-Dade County
- Developing for web in some capacity or another for 10+ years
- On Github as [@phiden](#)



Goals for Today

- Understand the difference between Git and Github
- Walk through the basic collaborative workflow
- Understand why version control can be helpful in an open data / open source context (and really, in any context where you have many people working on one document)
- A tour of the interface

What's Git?

- Git is an open-source distributed version control system, first developed in 2005
 - Flexible
 - Secure
 - Performant

What's Github?



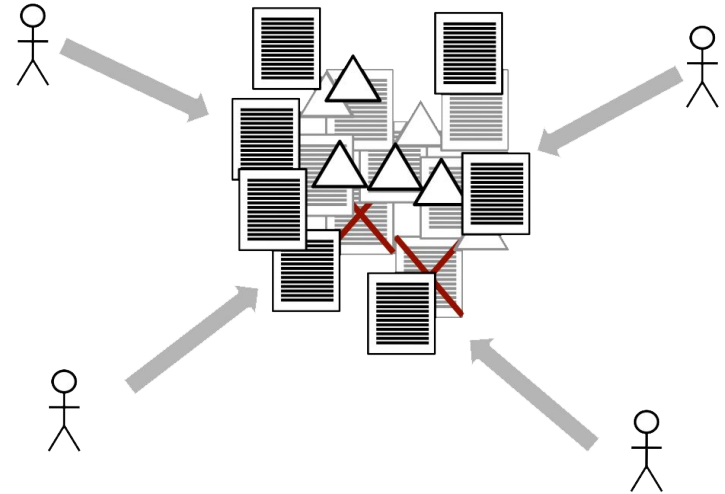
- A service that sits on top of Git, which stores information and provides version control.
- Allows multiple people to work on the same documents concurrently without conflict.
- Can be accessed via the web, the command line, and a desktop app.

Github is not limited to code.

Ok. So What?

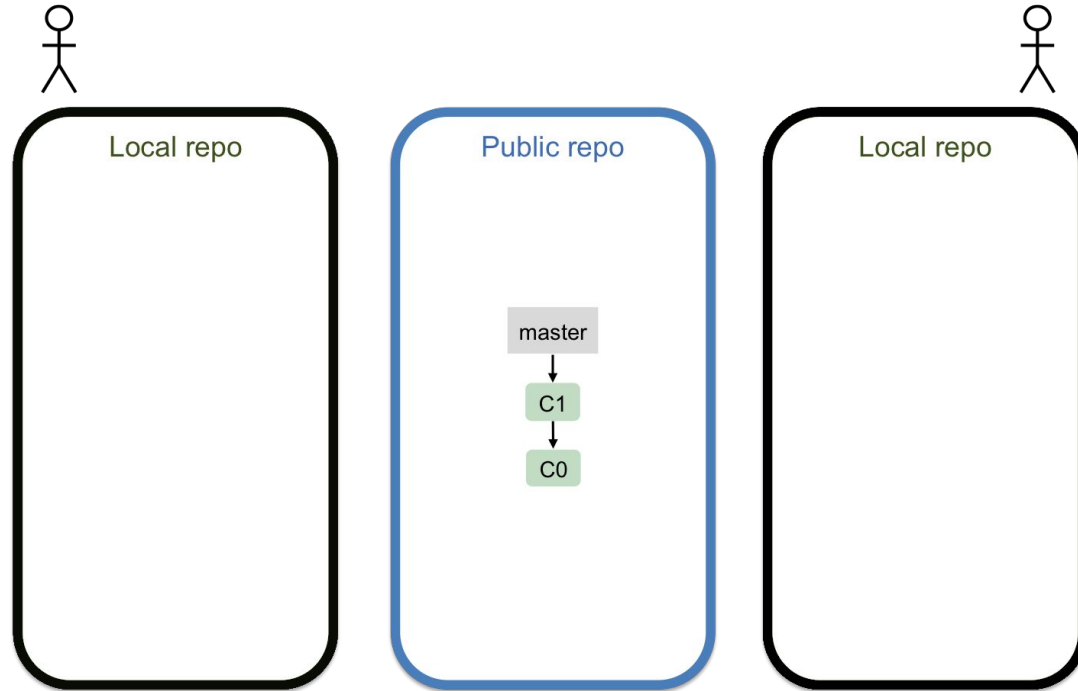
There are (at least) three broad use cases.

1: Collaborating on a team

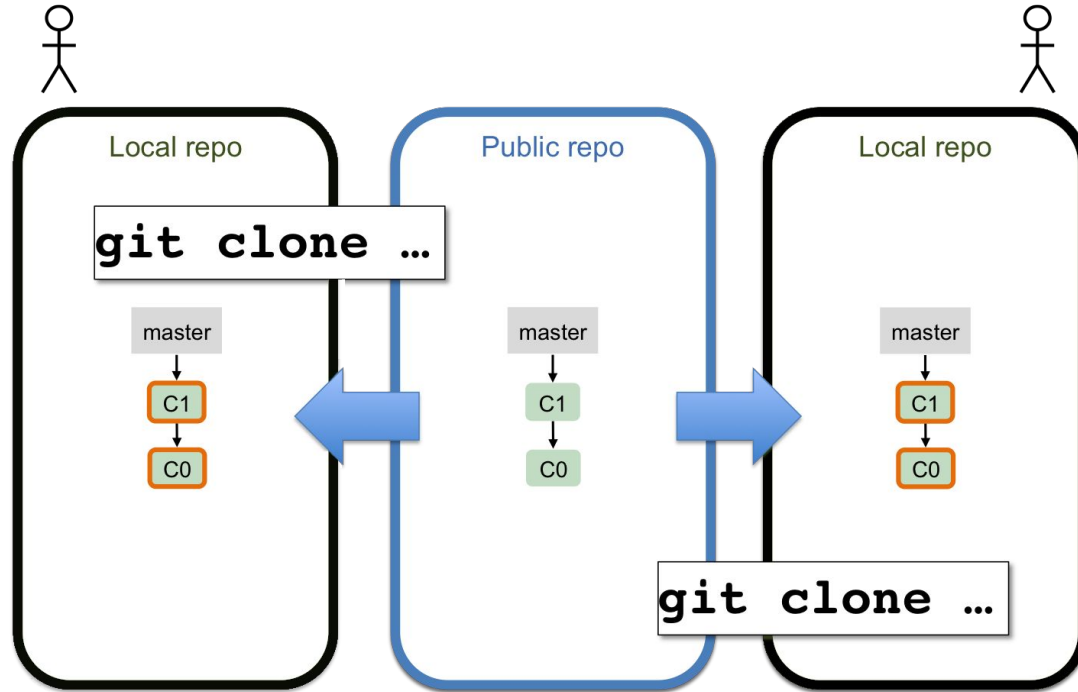


Too many people editing a document quickly becomes a mess.

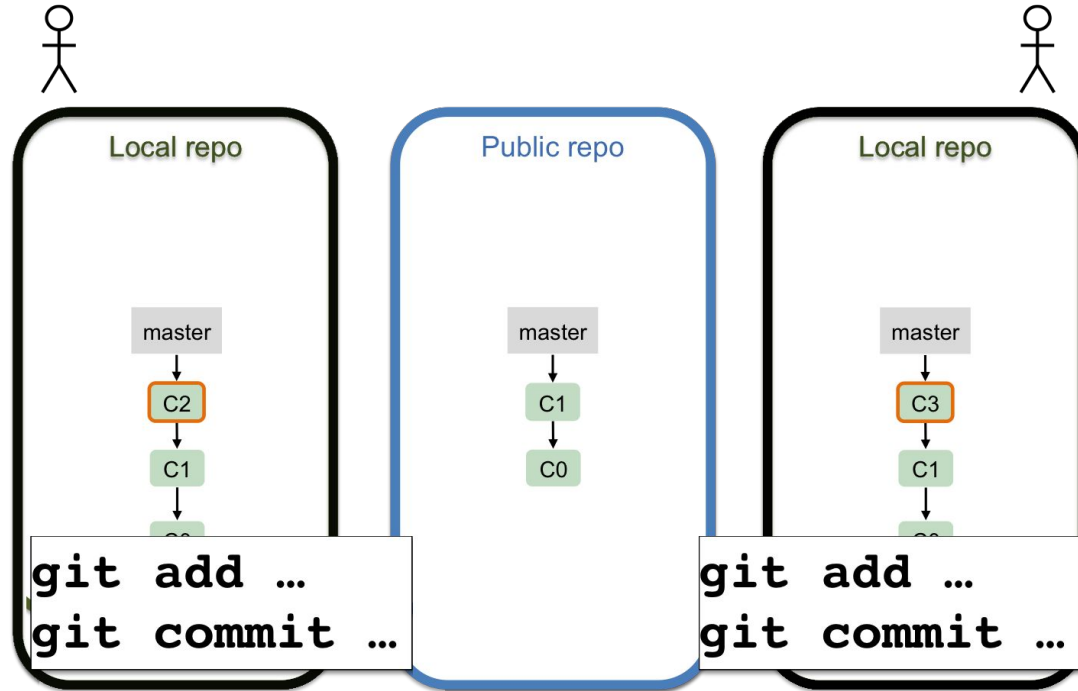
1: Collaborating with Git



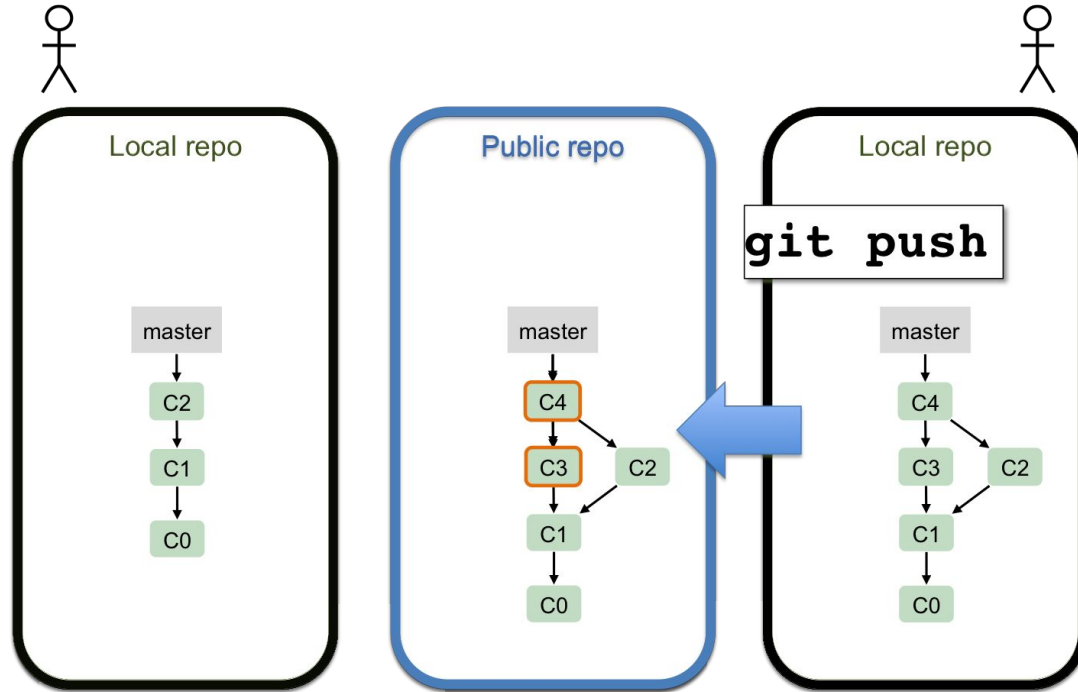
1: Collaborating with Git



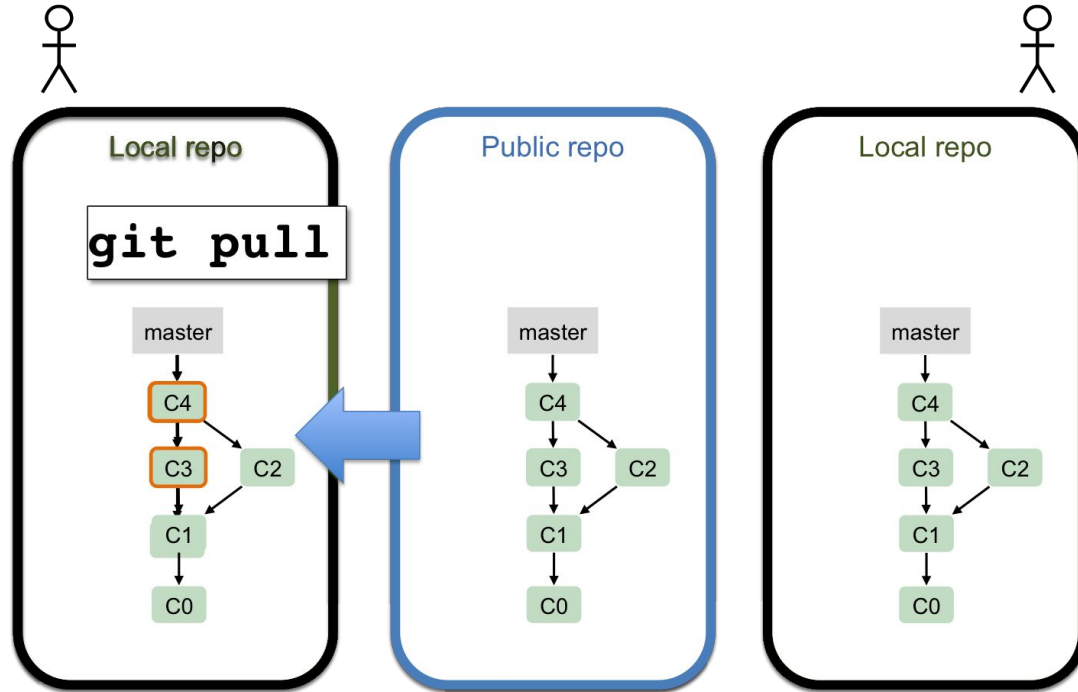
1: Collaborating with Git



1: Collaborating with Git



1: Collaborating with Git








Keep a history of your changes
to documents.


2: Personal version control

Tiny app to calculate ring shank sizes. — Edit

 9 commits

 1 branch

 0 releases

 1 contributor

Branch: master ▾


New pull request














Create new file

Upload files

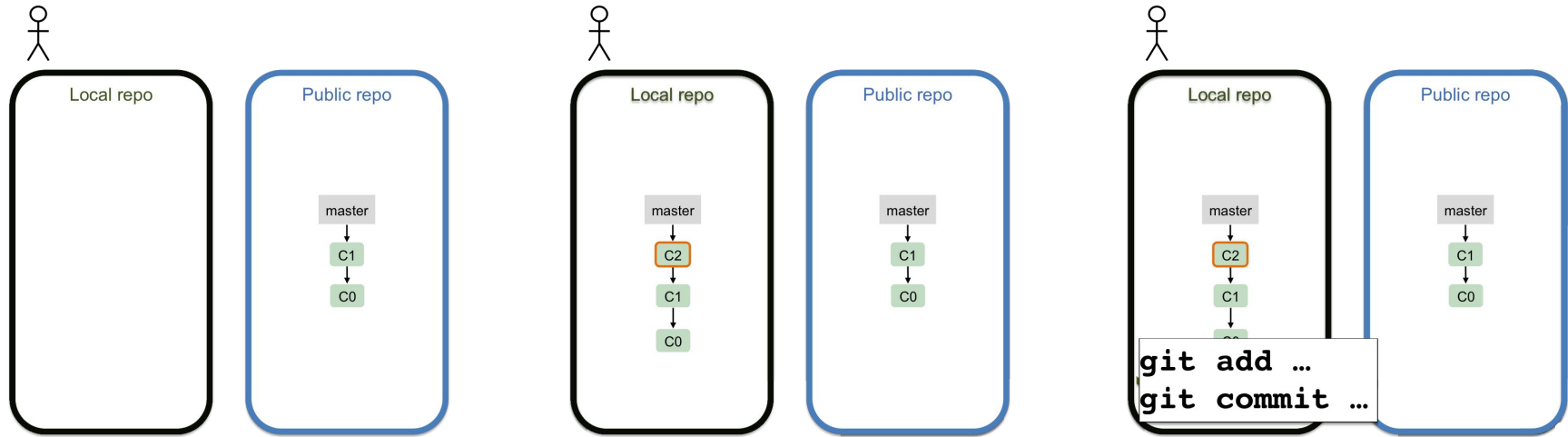
Find file

Clone or download ▾

 **phiden** Added analytics Latest commit 3aefe34 on Dec 17, 2014

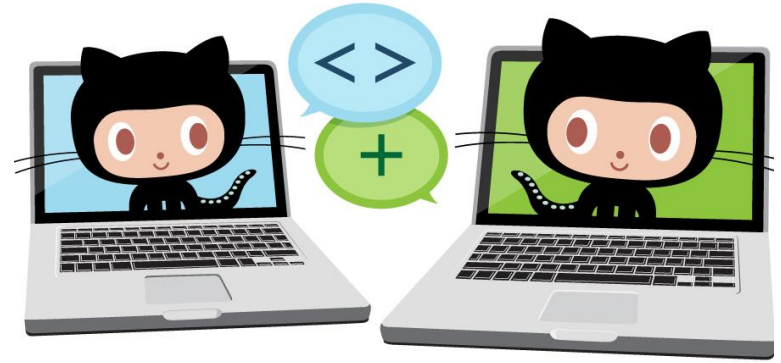
 png	added grumpicon	2 years ago
 .png	added mobile icons	2 years ago
 apple-icon-114x114.png	added mobile icons	2 years ago
 apple-icon-144x144.png	added mobile icons	2 years ago
 apple-icon-57x57.png	added mobile icons	2 years ago
 apple-icon-72x72.png	added mobile icons	2 years ago
 diamond.png	first commit - html markup	2 years ago
 icons.data.png.css	added grumpicon	2 years ago
 icons.data.svg.css	added grumpicon	2 years ago
 icons.fallback.css	added grumpicon	2 years ago
 index.html	Added analytics	2 years ago
 ring-sizer.js	CSS added	2 years ago
 style.css	added grumpicon	2 years ago

The process is the same as with multiple collaborators.



...and so on....

3: Contributing to open source



Help build freely available
tools for the better of...
everyone!

3: Contributing to open-source

- Many (but not all) open-source projects live on Github ...
- ...which makes it a great place to find your first open-source project!



THE CIVIC TECH ISSUE FINDER


Code for America Right Now

These are open GitHub Issues labeled with **help wanted** from across the civic technology movement. **Embed them** in your own site.

IMVERGLEICHZU.DE

Designer needed!

help wanted **design**




UIPA_ORG

Create about page

low-hanging fruit **in progress**

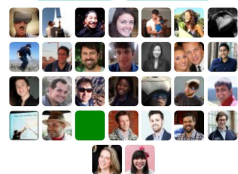
help wanted **documentation**



BRIGADE

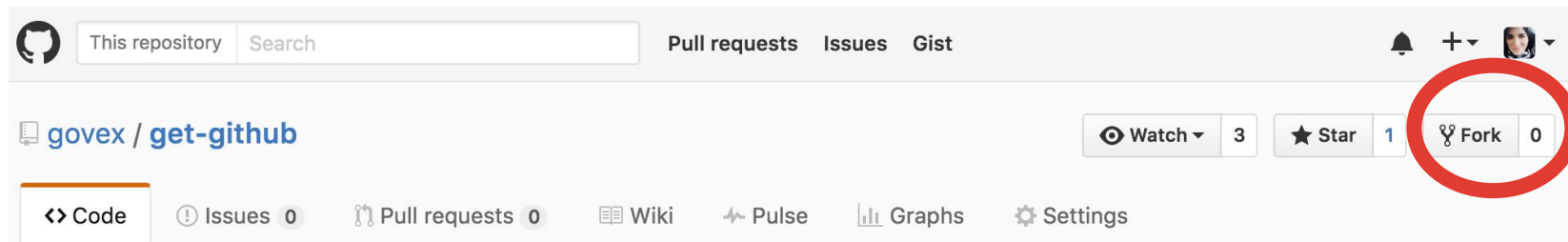
Add links to popular searches on the project search page

help wanted **enhancement**



3: Contributing to open-source

The workflow changes slightly: Instead of cloning a repo now, you'll **FORK** it instead, then clone your fork and proceed.



Otherwise, the idea remains the same: make a local copy of a *thing* to contribute without adding conflicts.

A quick tour of Github

```
GetGithub — -bash — 80x24

[phiden@ ~/Desktop/Govex/repos 🚀 ls
Data-Science                               infrastructure
GetGithub                                 mouBuilder
govex.github.io                           performance-management-getting-started
[phiden@ ~/Desktop/Govex/repos 🚀 cd GetGithub
[phiden@ ~/Desktop/Govex/repos/GetGithub 🚀 git status
On branch 160629_phi
Your branch is based on 'origin/160629_phi', but the upstream is gone.
    (use "git branch --unset-upstream" to fixup)
nothing to commit, working directory clean
[phiden@ ~/Desktop/Govex/repos/GetGithub 🚀 git checkout master
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.
[phiden@ ~/Desktop/Govex/repos/GetGithub 🚀 git status
On branch master
Your branch is up-to-date with 'origin/master'.
nothing to commit, working directory clean
[phiden@ ~/Desktop/Govex/repos/GetGithub 🚀 git pull
Already up-to-date.
phiden@ ~/Desktop/Govex/repos/GetGithub 🚀 █
```



This repository Search

Pull requests Issues Gist



govex / open-data-inventory

Watch 9 Star 3 Fork 1

Code

Issues 0

Pull requests 1

Wiki

Pulse

Graphs

Settings

Dataset Inventory Guidelines <https://centerforgov.gitbooks.io/dataset-inventory-guidelines/content/> — Edit

124 commits

1 branch

0 releases

7 contributors

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download

nghadji committed on GitHub	Update README.md	Latest commit 88ddbc0 25 days ago
CONTRIBUTING.md	Update CONTRIBUTING.md	5 months ago
LICENSE.md	Create LICENSE.md	5 months ago
README.md	Update README.md	25 days ago
SUMMARY.md	Update SUMMARY.md	11 months ago
appendix-a.md	Create appendix-a.md	a year ago
book.json	Update book.json	6 months ago
business.md	Update business.md	5 months ago
cover.jpg	update cover	11 months ago
datasets_index.md	Rename index.md to datasets_index.md	3 months ago
education.md	Update education.md	a year ago
elections.md	Update elections.md	a year ago

govex/govex.github.io

+

20160712_phi

No Uncommitted Changes

History

Pull Request

Filter Repositories

Update from master

View Branch

Publish

master

20160712_phi

20160712_phi

6 days ago by ngadji

Merge pull request #29 from govex/071...

20160712_phi

6 days ago by ngadji

Merge pull request #28 from govex/071...

20160712_phi

6 days ago by ngadji

Merge pull request #27 from govex/071316_nick

20160712_phi

6 days ago by ngadji

Merge pull request #26 from govex/071316_nick

20160712_phi

6 days ago by ngadji

Merge pull request #25 from govex/071316_nick

20160712_phi

6 days ago by ngadji

Merge pull request #24 from govex/071316_nick

20160712_phi

6 days ago by ngadji

Merge pull request #23 from govex/071316_nick

20160712_phi

6 days ago by ngadji

Merge pull request #22 from govex/071316_nick

updated data sources terminology

7 days ago by lbgeraghty

updated read me

7 days ago by lbgeraghty

Merge pull request #21 from govex/20160712...

7 days ago by lbgeraghty

Merge pull request #21 from govex/20160712_phi

20160712_phi

lbgeraghty 6325c6c 7 days ago

_config.yml

@@ -30,5 +30,9 @@ defaults:

values:

layout: collaboration

+ # Make redcarpet behave like GitHub Flavored Markdown

+ redcarpet:

+ extensions: ["no_intra_emphasis", "fenced_code_blocks", "autolink", "strikethrough", "superscript", "with_toc_data"]

+

gems:

- jekyll-redirect-from

JOHNS HOPKINS
UNIVERSITY

GovEx

Now let's abandon slides and get our hands on Github!

Clone this repo: <https://github.com/govex/basic-html-files>

Resources

- Github's [guide to contributing](#) to open source projects
- Github's [official explanation](#) of their workflow
- Code for America's [Civic Tech Issue Finder](#)
- GovEx's [Getting Started on Github](#)
- [Hello World](#) for Github
- [Github Desktop](#)
- All of Github's [Octocats](#)