Creating your GitHub Pages site

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GW Libraries & Academic Innovation

You will need a GitHub account for this workshop.

Create one at github.com

My Class Project Home Resources ▼ EXAMPLE PAGES ▼ ABOUT ME



Many options for your project site

GWU WordPress Blogs: blogs.gwu.edu

Commercial:

- Wordpress
- Squarespace
- Tumblr
- Wix
- LinkedIn
- Medium

GitHub Pages

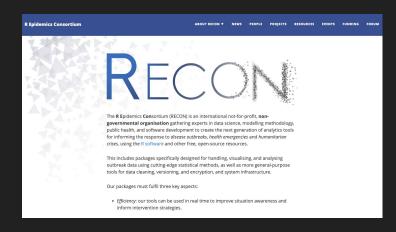
- Free and includes hosting
- No programming required
 - Update .yml configuration files
 - Write pages in Markdown or HTML
- Uses Jekyll, a static site builder, on the back end
 - Builds from a set of files you place in a GitHub repository
 - You can do everything via the browser (or not, if you want)
 - Rebuilds automatically when you change things
- Personal or project site
 - 1 personal site per account: myname.github.io
 - project site (for every repository): myname.github.io/myproject
 - (optionally) Connect to "mycustomurl.org"

Example project sites

Social Feed Manager



R Epidemics Consortium



Jekyll Templates: Lots of choices...

Officially supported by Github

* Instructions at pages.github.com (select "Project Site", then "Choose a Theme")



Open-source but not officially supported:

https://github.com/topics/jekyll-theme

http://themes.jekyllrc.org/

https://jekyllthemes.io/github-pages-templates

"Beautiful Jekyll" theme

- Widely used and reasonably simple
- Looks good on mobile
- Navigation bar
- Can create pages and/or blog posts:
 - o page
 - o post

Step 0: GitHub Account

Sign up for a GitHub account: github.com

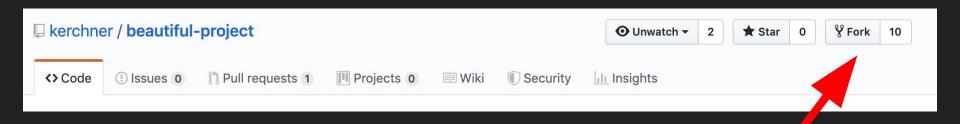
Log in

Step 1: Fork the template repository

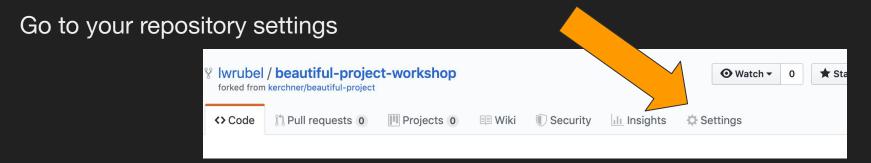
Go to

https://github.com/kerchner/beautiful-project

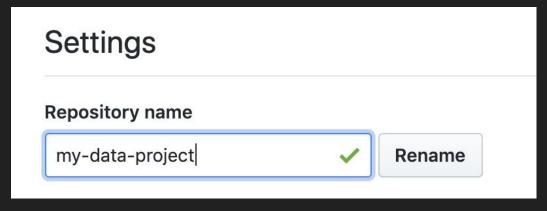
Press "Fork"



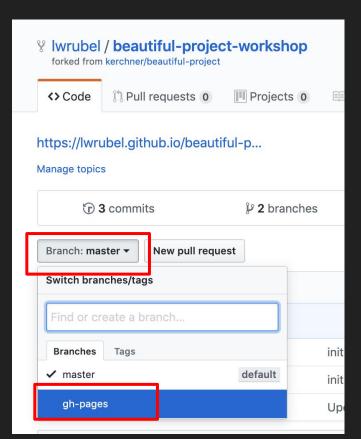
Step 2: Rename your repository



Rename your repository



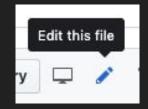
Switch to the gh-pages branch



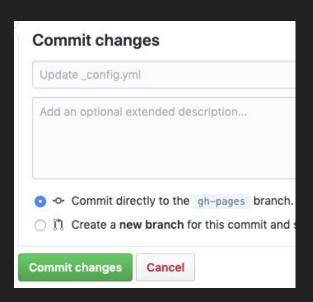
Customizing the template

Editing files on GitHub

1. Click



- 2. Make your changes.
- 3. When finished,
- add a note
- press "Commit changes"



Types of files: .yml ("YAML")

Contains data (often for configuration)
Comment out lines with #

```
# options
key: value
list:
    - key: value
    - key: value
```

Be careful to use **spaces**, **not tabs**.

Always put a space after the colon in key: value pairs

Types of files: .md ("Markdown")

"Plain text" way of writing web pages

Basic Markdown:

guides.github.com/features/mastering-markdown/

Markdown tutorial: www.markdowntutorial.com/

Files

```
includes - pieces of pages that are included in other pages
   layouts - HTML for layout templates ('page', 'post', etc.)
   posts - Blog posts go here as .md files
   css - stylesheets, if you'd like to adjust the appearance
   img - image files go here
is - Javascript (for advanced users)
_config.yml - site configuration file
index.html - main page
other .md and .html pages - other site pages
README.md - README that shows on your site's github page
```

Edit _config.yml with your name, project info, url, etc.

Then....



approx. 1-2 minutes as GitHub rebuilds your site.

Now try viewing your site

https://myname.github.io/myproject

Try creating a new page

View md-example.md and click Raw . Copy the page text.

On the main page of your github repository, press Create new file Call it newpage.md (or a name you choose). Paste the copied page content into the new page. Change something.

Now, edit _config.yml in the navbar-links: section, and add a menu link to your new page.

Try adding an image to your page

Browse to the img folder.

Click "Upload files".

Add a reference to the image in one of the pages.

Embedding HTML

- Upload your HTML file to the _includes folder
- Add the following to one of your pages where you'd like to embed the visualization. The page can be either Markdown or HTML:

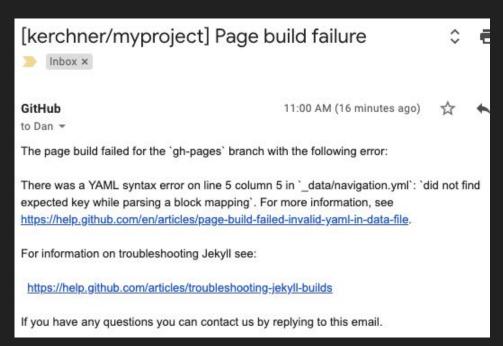
{% include my_plot.html %}

substitute the name of your HTML file

Troubleshooting

 Check your email for build failure messages

YAML file syntax can be sensitive!



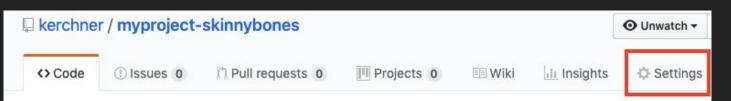
https://help.github.com/en/articles/troubleshooting-github-pages-builds

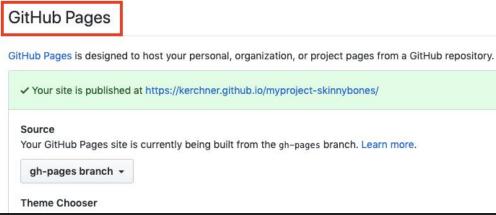
Troubleshooting

Repository Settings

- \rightarrow Options
 - → Github Pages

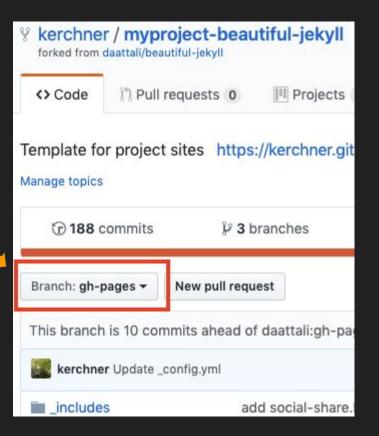






Troubleshooting

 Are you making changes in the gh-pages branch?



Thanks!

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Stuck on your coding project or project site?

Appointments → <u>calendly.com/gwul-coding</u>