MkDocs for HamPUG meetings repository

Using MkDocs application to create a static project website off the /docs folder of the HamPUG Github "meetings" repository.

Hamilton Python Users Group Ian Stewart 2019-09-09.

Introduction

GitHub Pages

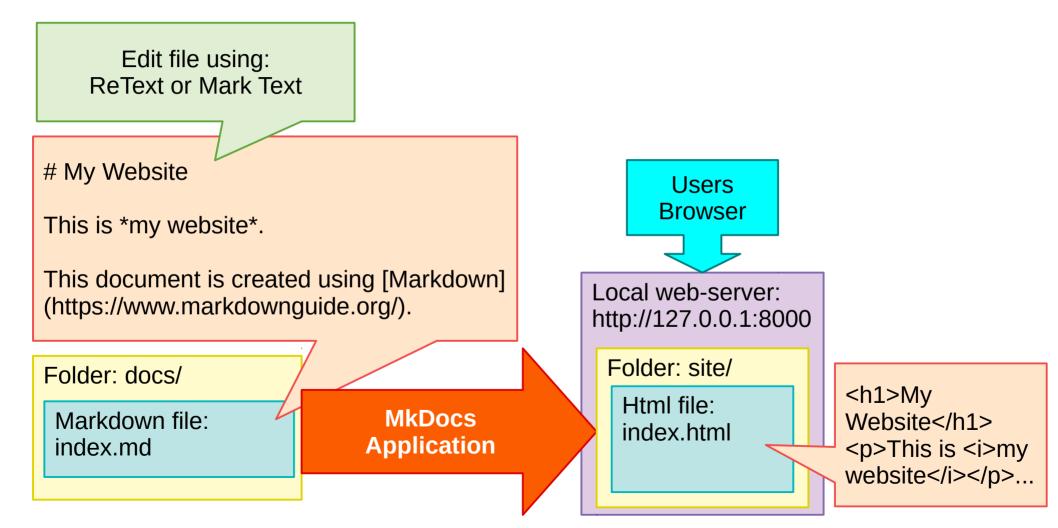
You can configure GitHub Pages to publish your site's source files from master, gh-pages, or a /docs folder on your master branch for Project Pages and other Pages sites that meet certain criteria. Refer:: https://pages.github.com/

MkDocs

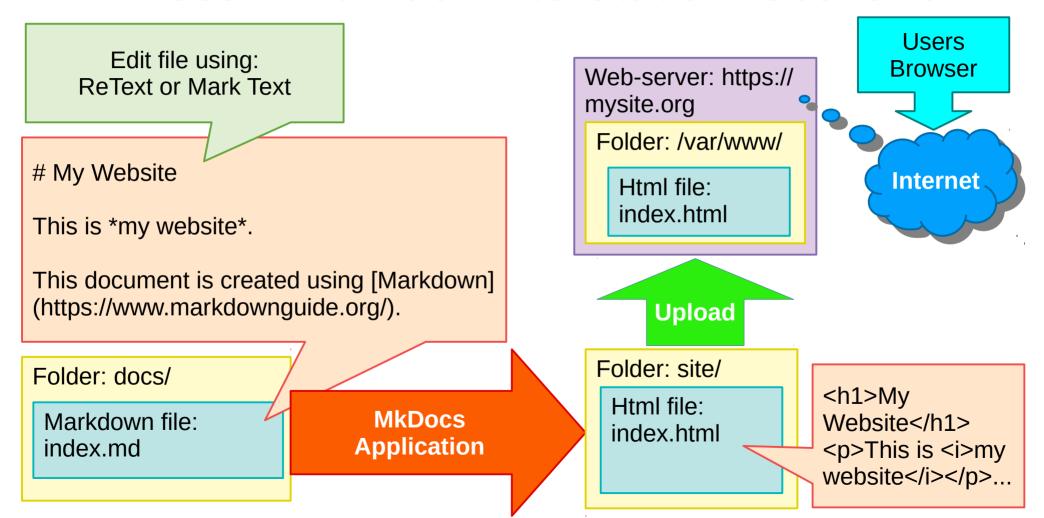
MkDocs is a fast, simple and downright gorgeous static site generator that's geared towards building project documentation. Documentation source files are written in Markdown, and configured with a single YAML configuration file.

Refer: https://www.mkdocs.org/

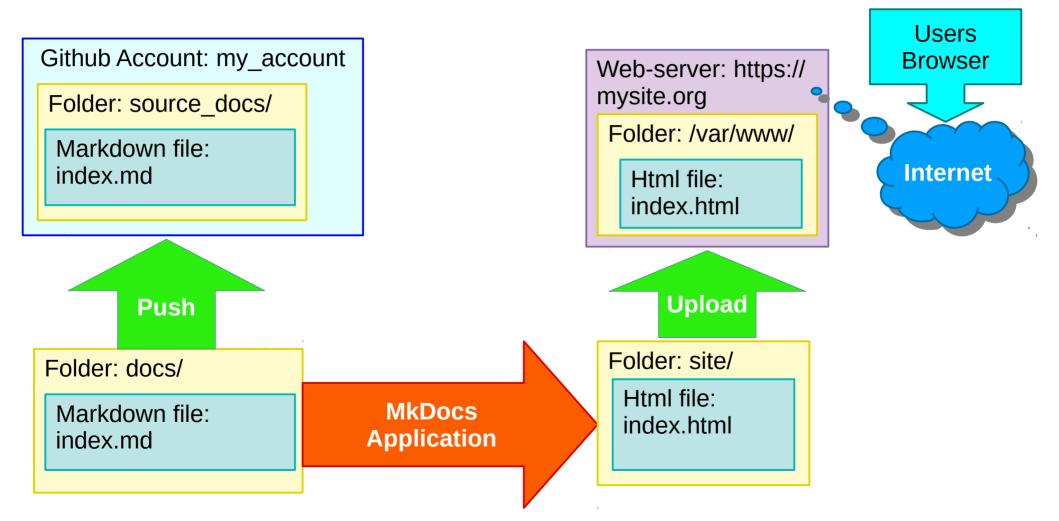
MkDocs – Markdown to Static Website 1/4



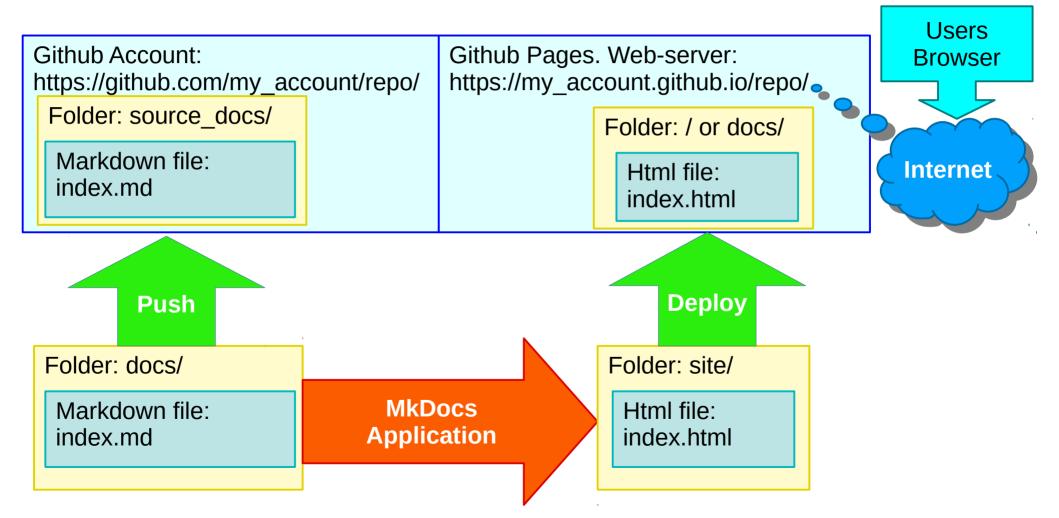
MkDocs – Markdown to Static Website 2/4



MkDocs – Markdown to Static Website 3/4

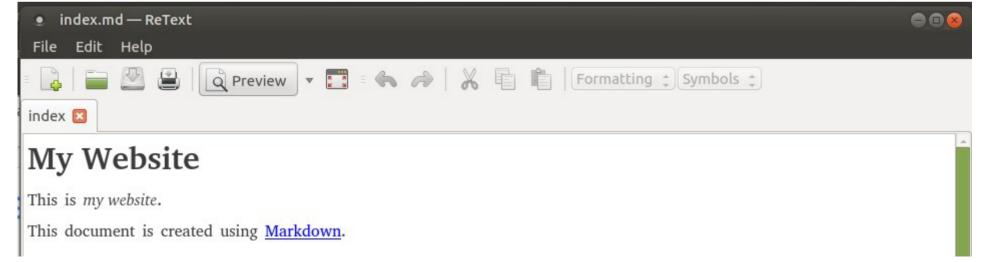


MkDocs – Markdown to Static Website 4/4



MkDocs – Create index.md file

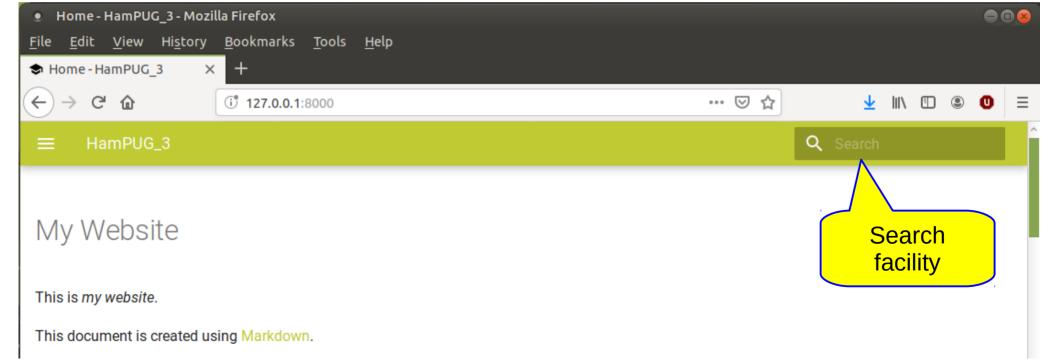




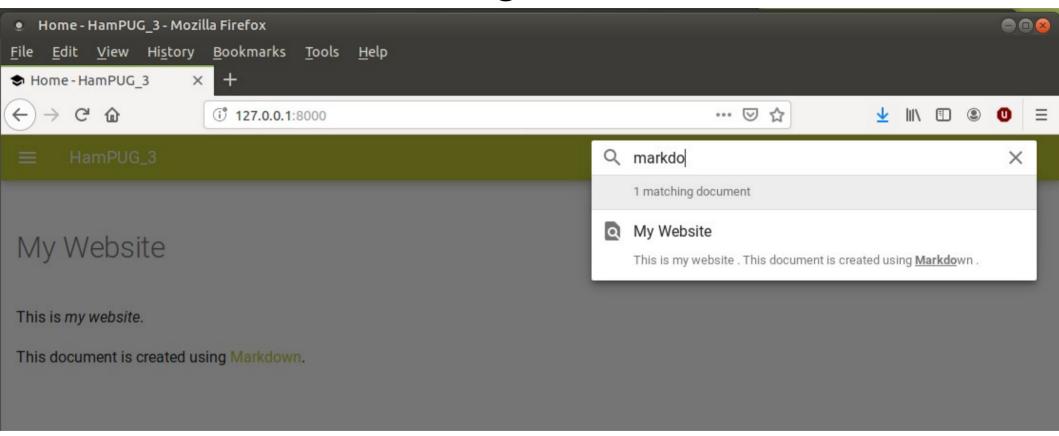
\$ mkdocs build converts to html, build website.

```
<h1 id=my-website>My Website</h1>
This is <em>my website</em>.
This document is created using <a href=https://www.markdownguide.org/ >Markdown</a>.
```

\$ mkdocs serve displays the website



Website using search feature



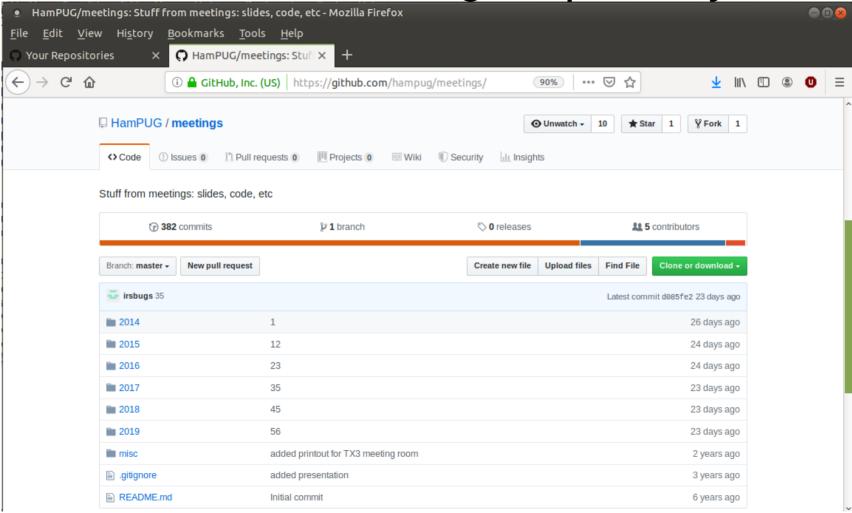
Using MkDocs to create Meetings website

Steps:

- Fork HamPUG meetings to personal Github repository
- Create local directory
- Git clone of GitHub to local repository
- Generate a index.html as a test website home page
- Push to Github
- Update settings on Github to support project webpages.
- Check project website

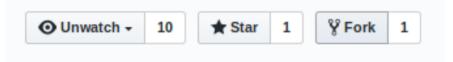
Create website: Slides 11 to 29

HamPUG meetings repository

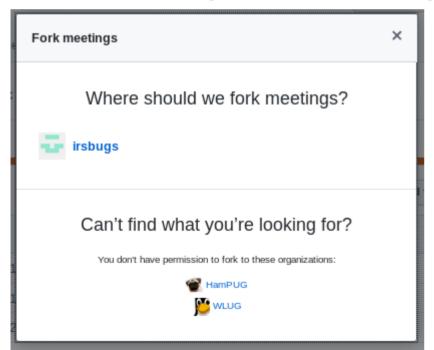


Fork

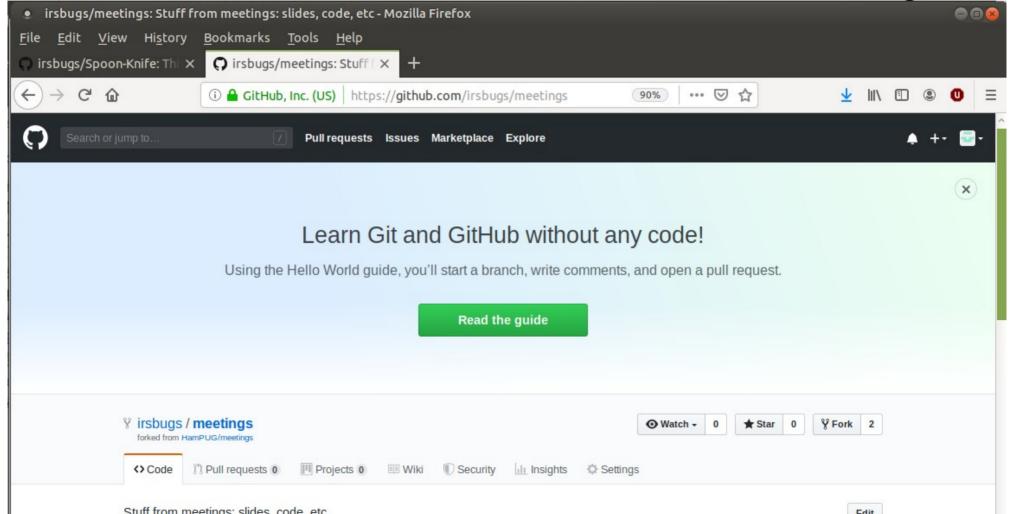
In HamPUG meeting repository – Click on "Fork"



In Fork meetings – Click on personal Github account



Personal Github account now has "meetings"



Branch is even with HamPUG master

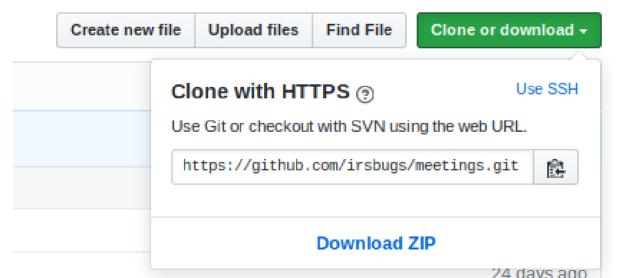
382 commits	₽ 1 branch	♡ 0 releases	22 5 contributors
Branch: master → New pull request		Create new file Upload	files Find File Clone or download →
This branch is even with HamPUG:master.			🎵 Pull request 🖹 Compare
irsbugs 35			Latest commit d085fe2 23 days ago
2014	1		26 days ago
2015	12		24 days ago
2016	23		24 days ago
2017	35		23 days ago
1 2018	45		23 days ago
1 2019	56		23 days ago
misc misc	added printout for TX3 meeting room		2 years ago
gitignore	added presentation		3 years ago
README.md	Initial commit		6 years ago

Prepare local directory for meeting repository

Launch Virtual Environment and create directory for cloned respository

```
ian@X200:~$ source venv7/bin/activate
(venv7) ian@X200:~$ mkdir hampug-website
(venv7) ian@X200:~$ cd hampug-website
```

Click on "Clone or download" and copy URL



Clone "meetings"

```
(venv7) ian@X200:~/hampug-website$ git clone https://github.com/irsbugs/meetings.git
Cloning into 'meetings'...
remote: Enumerating objects: 175, done.
remote: Counting objects: 100% (175/175), done.
remote: Compressing objects: 100% (165/165), done.
remote: Total 2360 (delta 66), reused 0 (delta 0), pack-reused 2185
Receiving objects: 100% (2360/2360), 98.39 MiB | 1.27 MiB/s, done.
Resolving deltas: 100% (995/995), done.
(Duration: About 1 minute)
```

Folders created

```
(venv7) ian@X200:~/hampug-website$ ls -l
drwxrwxr-x 11 ian ian 4096 Sep 5 19:43 meetings
(venv7) ian@X200:~/hampug-website$ ls -la meetings
drwxrwxr-x 10 ian ian 4096 Sep 5 19:37 .
drwxrwxr-x 3 ian ian 4096 Sep 5 19:36 ..
drwxrwxr-x 13 ian ian 4096 Sep 5 19:37 2014
drwxrwxr-x 13 ian ian 4096 Sep 5 19:37 2015
drwxrwxr-x 13 ian ian 4096 Sep 5 19:37 2016
drwxrwxr-x 13 ian ian 4096 Sep 5 19:37 2017
drwxrwxr-x 13 ian ian 4096 Sep 5 19:37 2018
drwxrwxr-x 9 ian ian 4096 Sep 5 19:37 2019
drwxrwxr-x 8 ian ian 4096 Sep 5 19:37 .git
-rw-rw-r-- 1 ian ian
                       28 Sep 5 19:37 .gitignore
drwxrwxr-x 2 ian ian 4096 Sep 5 19:37 misc
-rw-rw-r-- 1 ian ian
                       58 Sep 5 19:37 README.md
```

"meetings" folder is a git repository

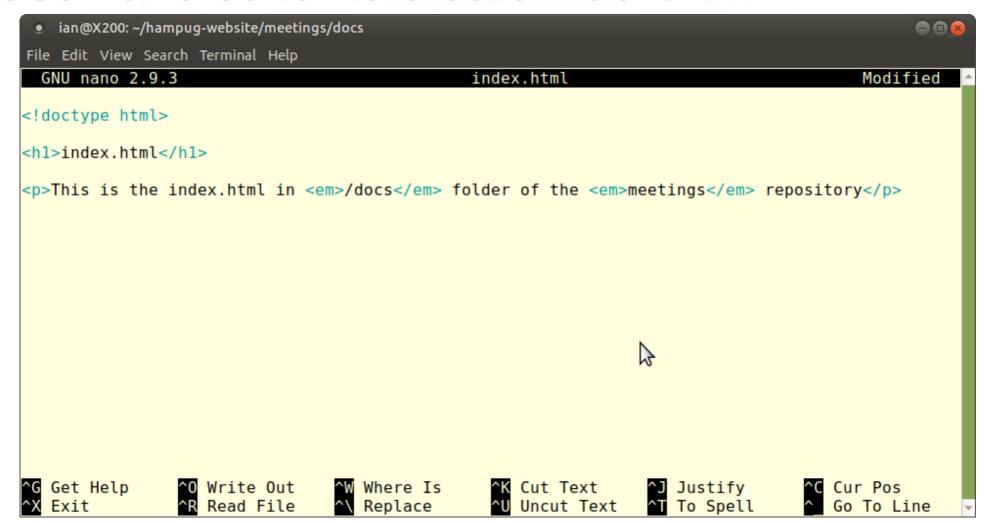
Checking Check Git status

```
(venv7) ian@X200:~/hampug-website$ cd meetings
(venv7) ian@X200:~/hampug-website/meetings$ git status
On branch master
Your branch is up to date with 'origin/master'.
nothing to commit, working tree clean
```

Generate a "test" website.

```
(venv7) ian@X200:~/hampug-website/meetings$ mkdir docs
(venv7) ian@X200:~/hampug-website/meetings$ cd docs
(venv7) ian@X200:~/hampug-website/meetings/docs$ touch index.html
(venv7) ian@X200:~/hampug-website/meetings/docs$ nano index.html
```

Use nano editor to create index.html



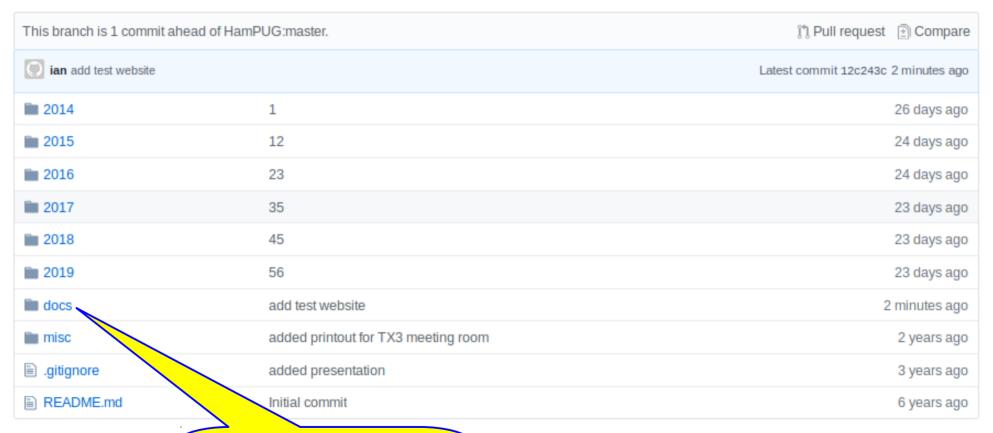
Check "test" webpage and git status

```
(venv7) ian@X200:~/hampug-website/meetings/docs$ cat index.html
<!doctype html>
<h1>index.html</h1>
This is the index.html in <em>/docs</em> folder of the <em>meetings</em>
repository
(venv7) ian@X200:~/hampug-website/meetings/docs$ cd ..
(venv7) ian@X200:~/hampug-website/meetings$ git status
On branch master
Your branch is up to date with 'origin/master'.
Untracked files:
  (use "git add <file>..." to include in what will be committed)
   docs/
nothing added to commit but untracked files present (use "git add" to track)
```

Git: add, commit, push

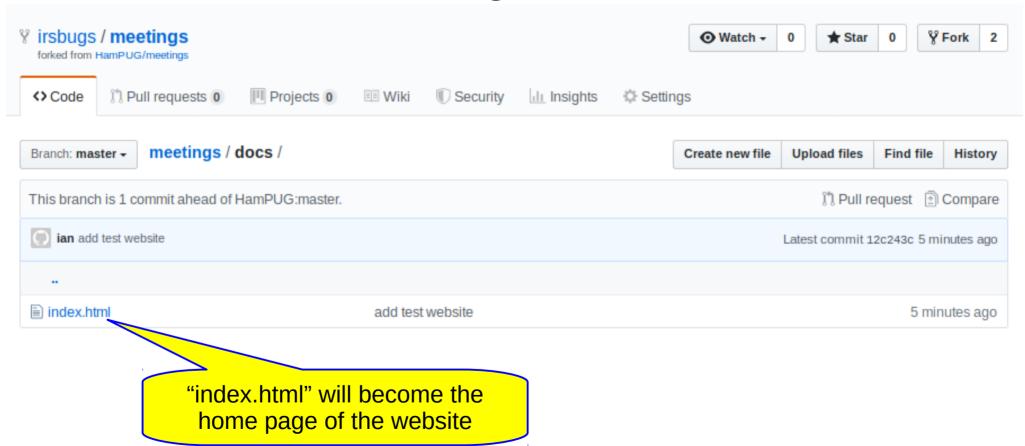
```
(venv7) ian@X200:~/hampuq-website/meetings$ qit add --all
(venv7) ian@X200:~/hampug-website/meetings$ git commit -m "add test website"
[master 12c243c] add test website
 1 file changed, 5 insertions(+)
 create mode 100644 docs/index.html
(venv7) ian@X200:~/hampug-website/meetings$ git push -u origin master
Username for 'https://github.com': irsbugs
Password for 'https://irsbugs@github.com':
Counting objects: 4, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 403 bytes | 403.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100\% (1/1), completed with 1 local object.
To https://github.com/irsbugs/meetings.git
   d085fe2..12c243c master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
```

Review Github meetings repository

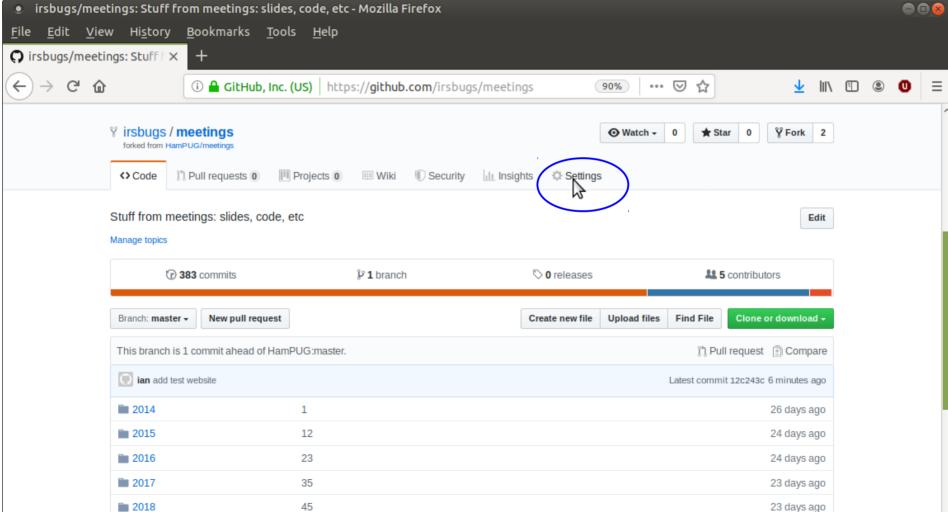


"docs" folder has been added

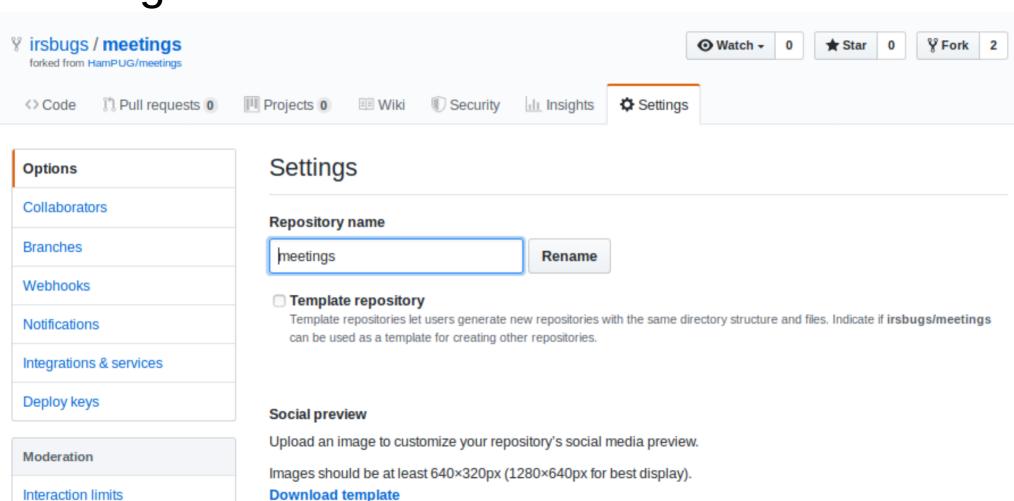
Review Github meetings/docs/ folder



Change the Settings



Settings. Scroll down



Settings. GitHub Pages

GitHub Pages

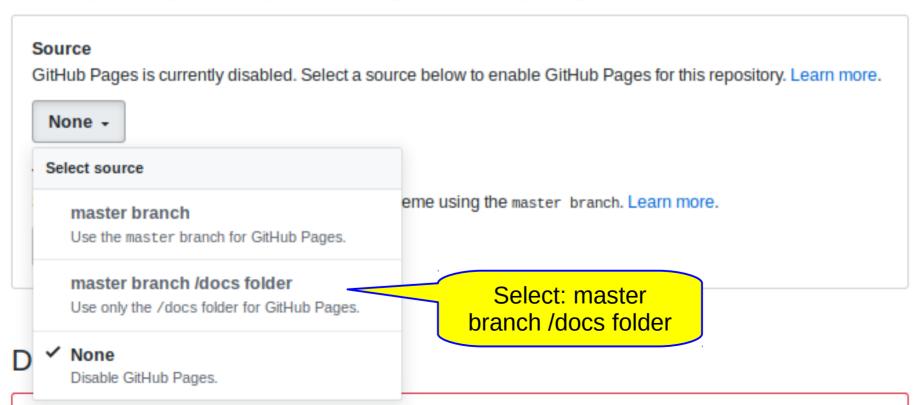
GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.



Settings. GitHub Pages

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.



Settings. GitHub Pages

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

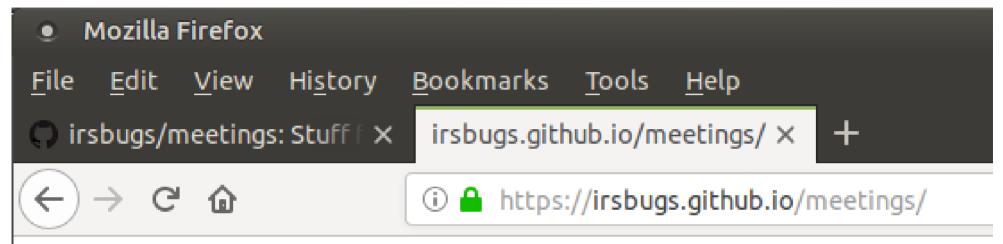
Your site is ready to be published at https://irsbugs.github.io/meetings/.

Source

Your GitHub Pages site is currently being built from the /docs folder in the master branch. Learn more.

master branch /docs folder -

Check website: irsbugs/github.io/meetings



index.html

This is the index.html in /docs folder of the meetings repository

Python mkdocs-auto program

Objective:

- A program that resides in the *meetings* repository that can be run to create a website of the markdown files in the *meetings* repository.
- The *meetings* repository and the *project website* reside on Github.

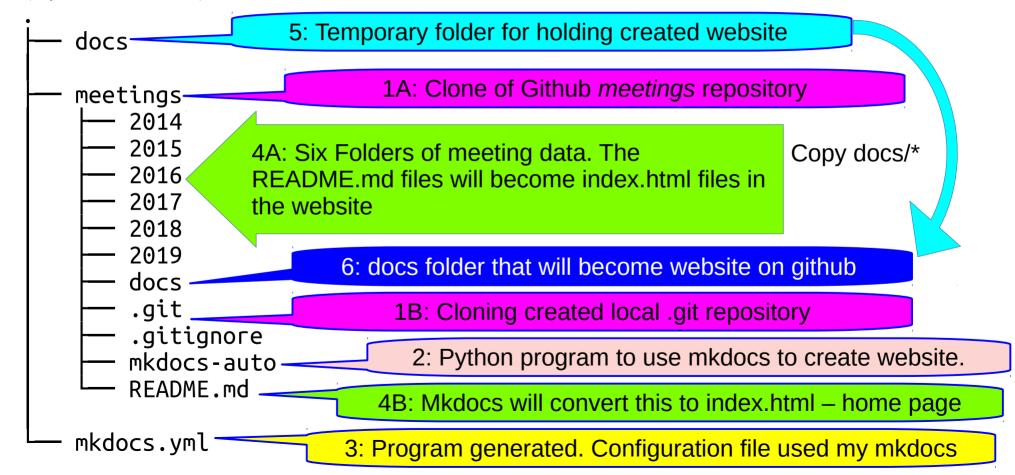
Python mkdocs-auto program.

Operation:

- Check it is being run from meetings folder / repository
- Check the markdown files in the meetings repository.
- Create a *mkdocs.yml* configuration file and save upone-level.
- Go up-one-level and run *mkdocs build –clean*
- *meetings* folder is the source, exclude *meetings/docs/*
- Copy website files in docs/ to meetings/docs/
- Push to Github
- Website available at: https://irsbugs.github.io/meetings/

Python mkdocs-auto program. Steps:

(up one level)\$ tree -L 2 -a



Python mkdocs-auto program

mkdocs.yml

```
site name: HamPUG
docs dir: meetings
                    # Source files. Default is docs
site_dir: docs
                    # Website files. (Temporary) Default is site.
                    # Website files are later rsync'ed to meetings/docs
plugins:
    - exclude:
        qlob:
                                     Github website folder
             docs/*
             - "*.odp"
             - "*.ipynb"
             - "*.yml"
             - about.md
                               Ensure that "search" plugin is envoked.
    - search:
```

Currently there is no *nav:* in the *mkdocs.yml* file.

Python mkdocs-auto program

To Do's:

- Create *nav:* to place in *mkdocs.yml*?
- Which theme and search engine?
- Test adding images.
- Standardize the README.md file layout.
- Implement links
- Implement using \$ mkdocs gh-deploy
- Source file using symbolic links to README's

Demonstration / Questions

___end___

Links:

https://www.mkdocs.org/

https://www.mkdocs.org/user-guide/configuration/

https://github.com/apenwarr/mkdocs-exclude

https://github.com/mkdocs/mkdocs/blob/master/docs/user-guide/writing-your-docs.md

https://squidfunk.github.io/mkdocs-material/

https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet

https://daringfireball.net/projects/markdown/syntax

https://guides.github.com/activities/hello-world/

https://github.com/irsbugs/website/blob/master/source/about.md

https://www.mkdocs.org/user-guide/deploying-your-docs/

https://mkdocs.readthedocs.io/en/0.15.3/user-guide/deploying-your-docs/

https://romandc.com/techtalk-mkdocs/

https://help.github.com/en/articles/user-organization-and-project-pages#project-pages-sites

https://pages.github.com/

https://yaml.org/