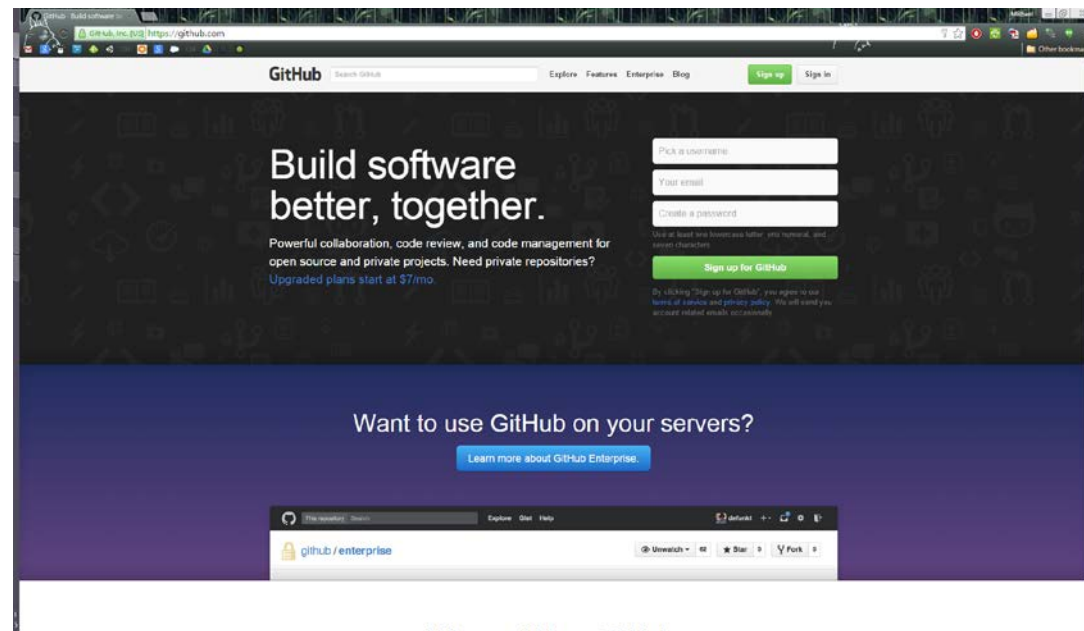


Git and GitHub

“Easy” Mode

Concepts

Git vs GitHub



Git Repository

(a folder with a history)



7/15/15 at 10:30p
First draft of website



7/16/15 at 11:30p
Fixed IE bug



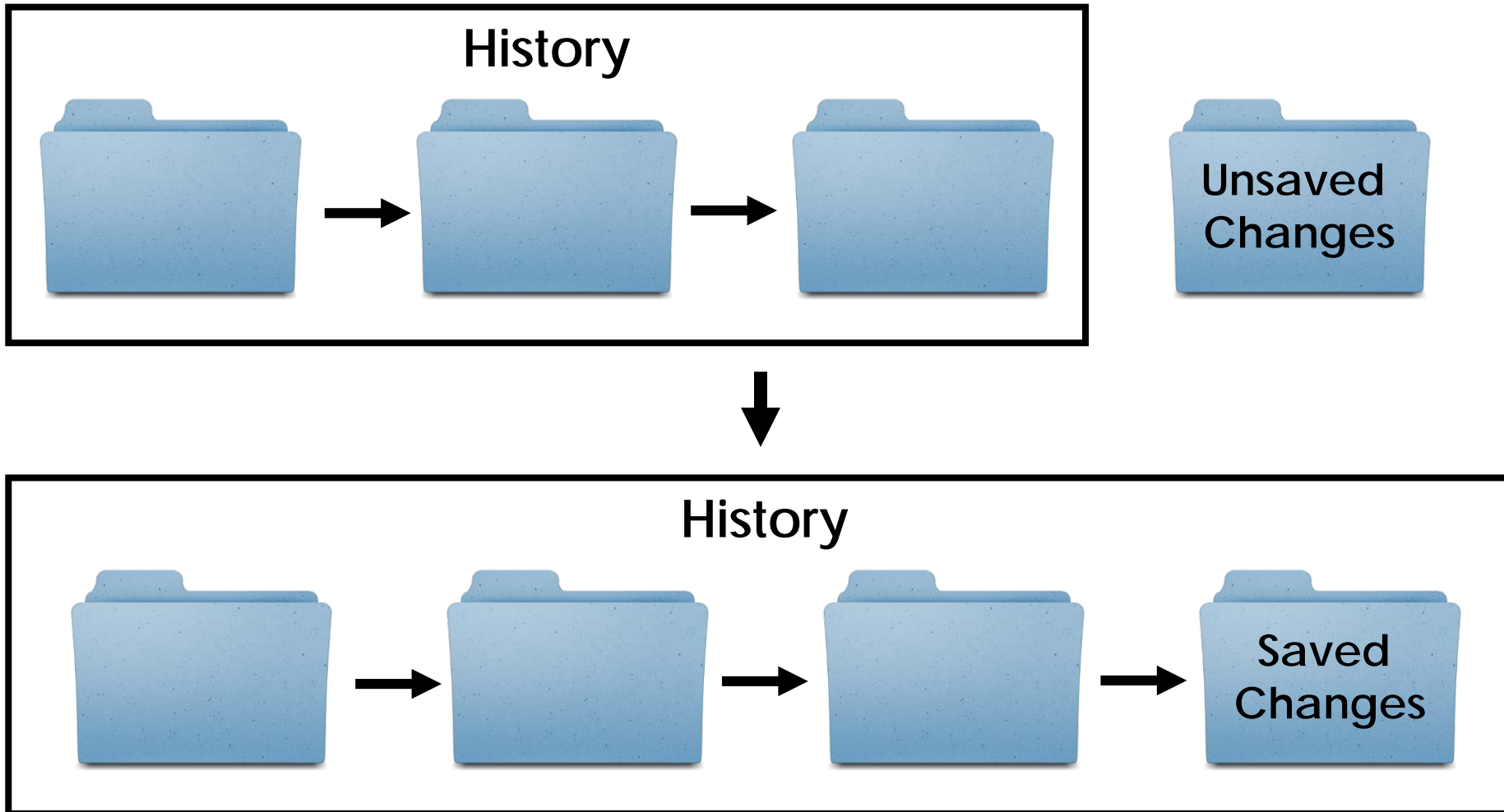
7/17/15 at 12:00a
Public release!



7/17/15 at 12:05a
Everything broke...
Hopefully this fixes it?

Git Committing

(saving a snapshot)

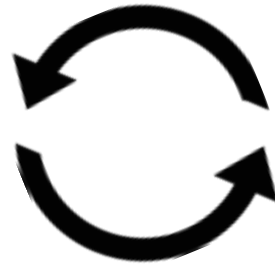
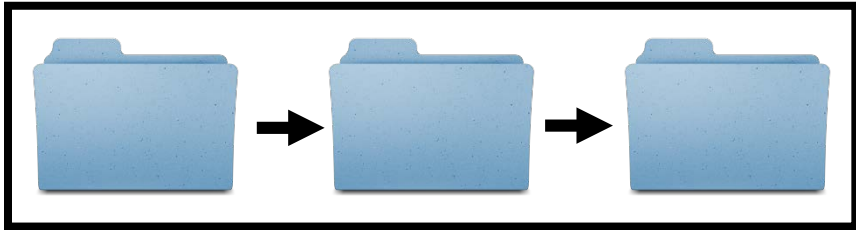


Syncing to GitHub

(to the "cloud")

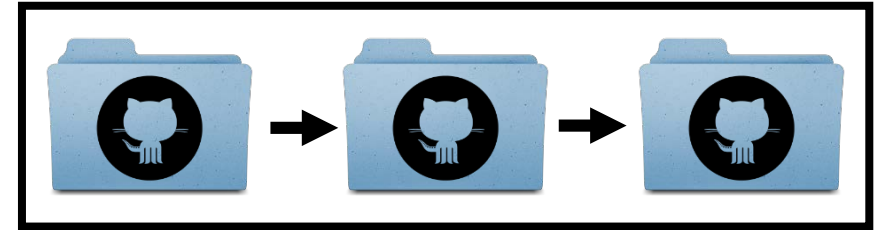
Local

(your computer's hard drive)



Remote

(GitHub's servers)



GitHub Pages

“Free” Web Hosting

<https://pages.github.com/>

First Time Setup

- Sign up for a GitHub account. Make sure to verify your email on your account!
- Download & install the [Desktop app](#)

Two Types of Pages

- User/Organization Pages
 - One per account
 - Common usage: portfolio, personal site
 - URL: `http://username.github.io`
- Project Pages
 - Unlimited per account
 - Common usage: individual projects, libraries
 - URL: `http://username.github.io/repository`



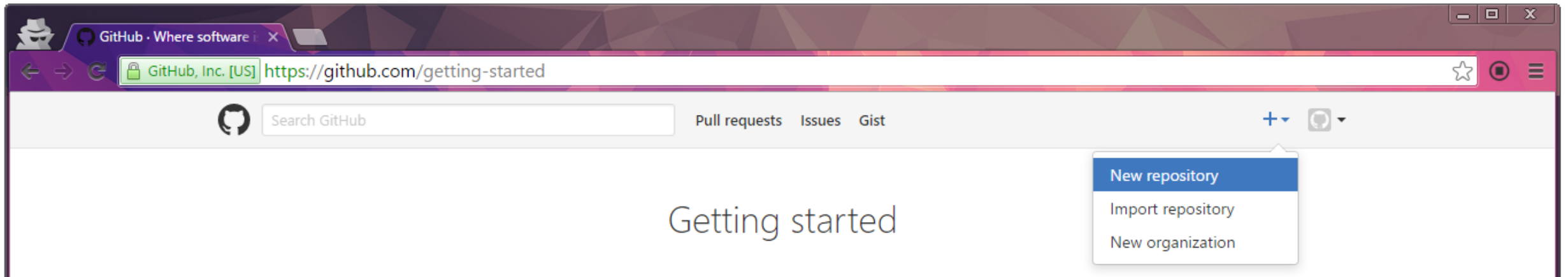
Project Page Setup



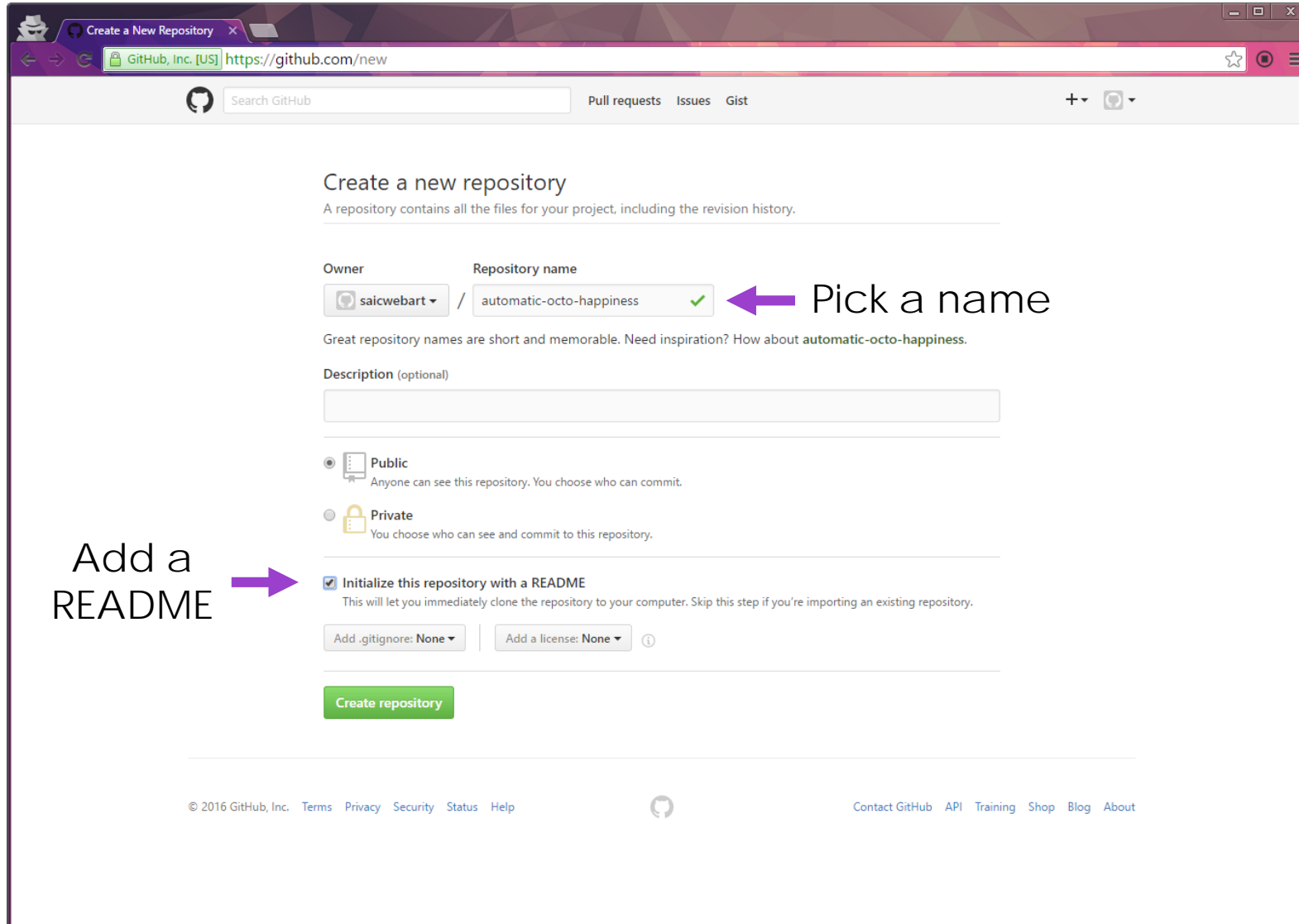
Default Project URL

[http://**username.github.io/repository**](http://username.github.io/repository)

Create New Repository on GitHub



Create New Repository on GitHub



The screenshot shows the GitHub 'Create a New Repository' page. The browser address bar shows 'https://github.com/new'. The page title is 'Create a new repository'. Below the title, it says 'A repository contains all the files for your project, including the revision history.' The form has two main sections: 'Owner' and 'Repository name'. The 'Owner' dropdown is set to 'saicwebart'. The 'Repository name' dropdown is set to 'automatic-octo-happiness', which is marked with a green checkmark. A purple arrow points to this dropdown with the text 'Pick a name'. Below the name field, there is a text input for 'Description (optional)'. The 'Public' radio button is selected, with the text 'Anyone can see this repository. You choose who can commit.' Below it, the 'Private' radio button is unselected, with the text 'You choose who can see and commit to this repository.' At the bottom, the 'Initialize this repository with a README' checkbox is checked. A purple arrow points to this checkbox with the text 'Add a README'. Below the checkbox, there are two dropdowns: 'Add .gitignore: None' and 'Add a license: None'. At the bottom of the form is a green 'Create repository' button. The footer of the page shows '© 2016 GitHub, Inc.' and various links like 'Terms', 'Privacy', 'Security', 'Status', 'Help', 'Contact GitHub', 'API', 'Training', 'Shop', 'Blog', and 'About'.

Create a new repository

A repository contains all the files for your project, including the revision history.

Owner: saicwebart / Repository name: automatic-octo-happiness ✓

Great repository names are short and memorable. Need inspiration? How about automatic-octo-happiness.

Description (optional)

☒ Public
Anyone can see this repository. You choose who can commit.

☐ Private
You choose who can see and commit to this repository.

☒ Initialize this repository with a README
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

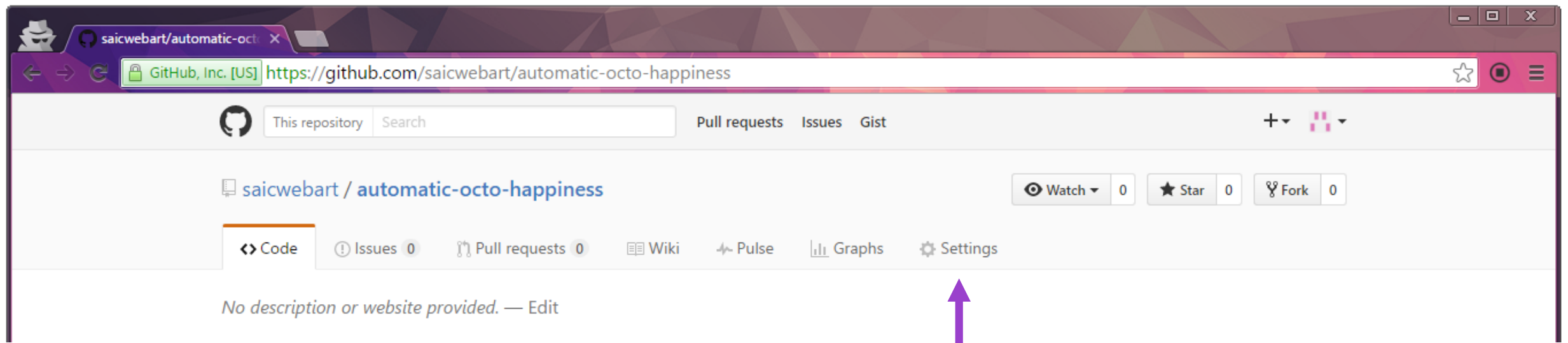
Add .gitignore: None | Add a license: None ⓘ

Create repository

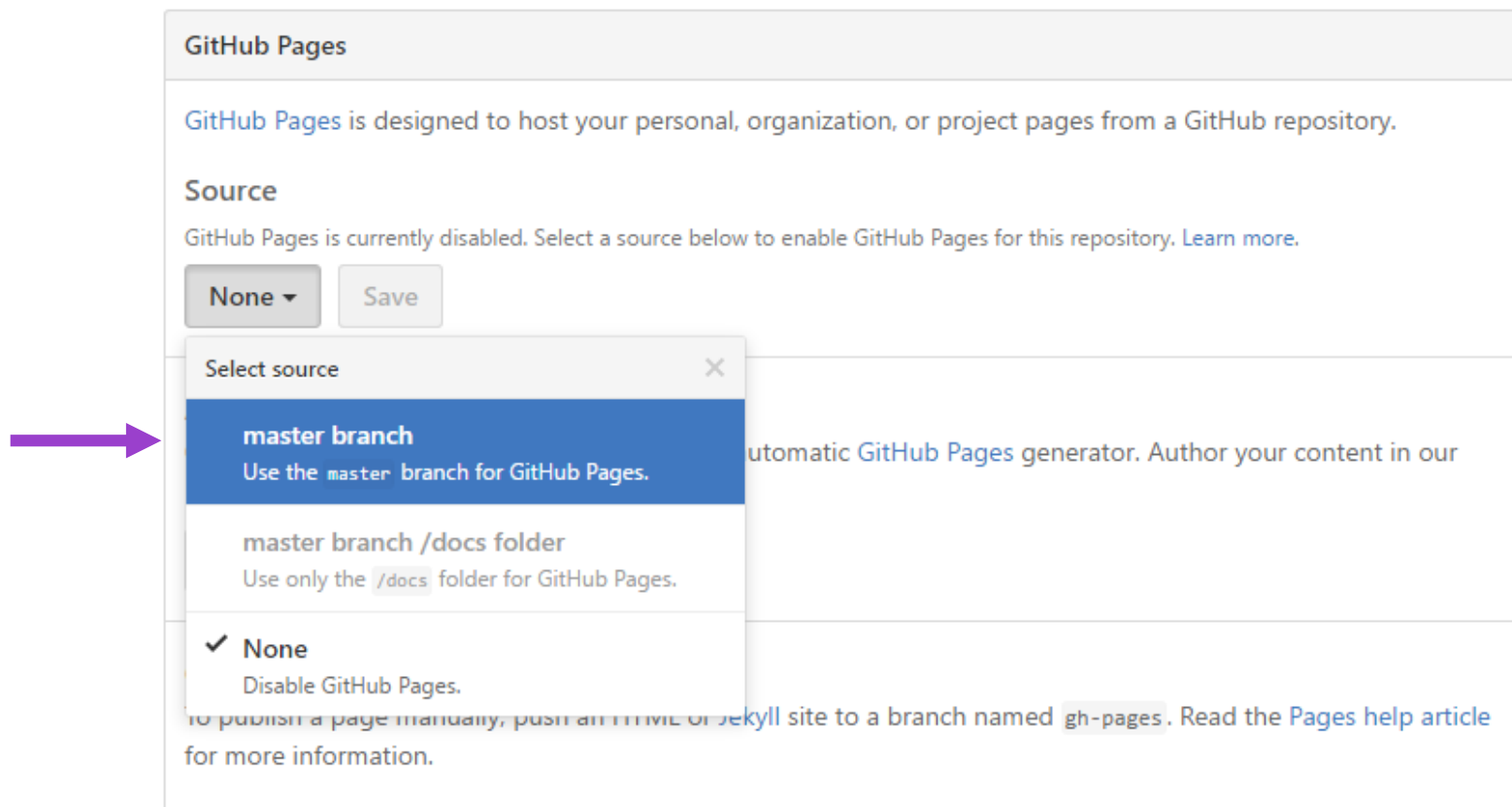
© 2016 GitHub, Inc. Terms Privacy Security Status Help

Contact GitHub API Training Shop Blog About

Go to Settings



Setup for GitHub Pages



Repository Setup Done



GitHub Pages

Your site is ready to be published at <https://saicwebart.github.io/automatic-octo-happiness/>.

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

Source

Your GitHub Pages site is currently being built from the `master` branch. [Learn more.](#)

master branch ▾

Save

Custom domain

Custom domains allow you to serve your site from a domain other than `saicwebart.github.io`. [Learn more.](#)

Save

Update your site

To update your site, push your HTML or [Jekyll](#) updates to the `master` branch. Read the [Pages help article](#) for more information.

Overwrite site

Replace your existing site by using our automatic page generator. Author your content in our Markdown editor, select a theme, then publish.

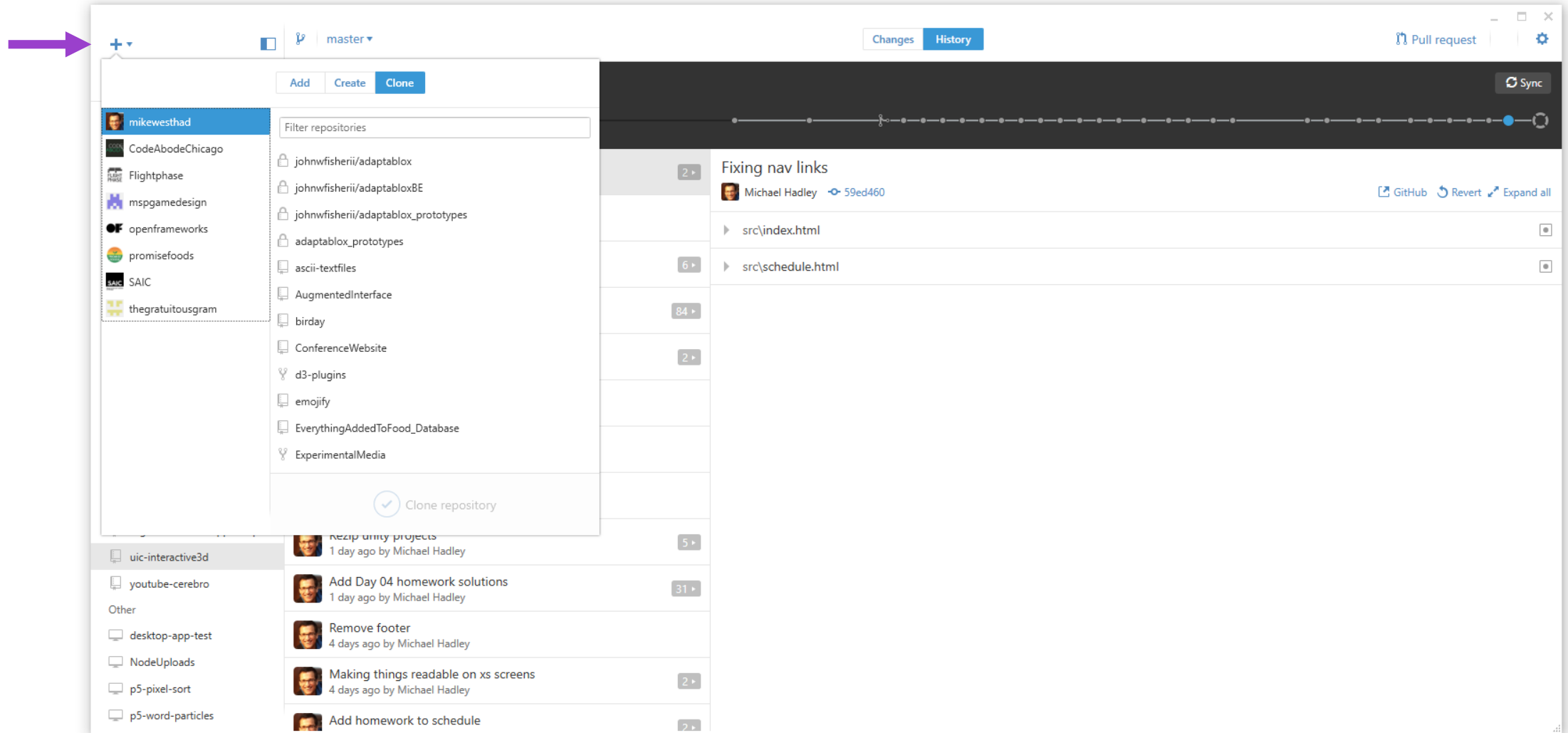
Launch automatic page generator

☒ **Enforce HTTPS** — Required for your site because you are using the default domain (`saicwebart.github.io`)
HTTPS provides a layer of encryption that prevents others from snooping on or tampering with traffic to your site.
When HTTPS is enforced, your site will only be served over HTTPS. [Learn more.](#)

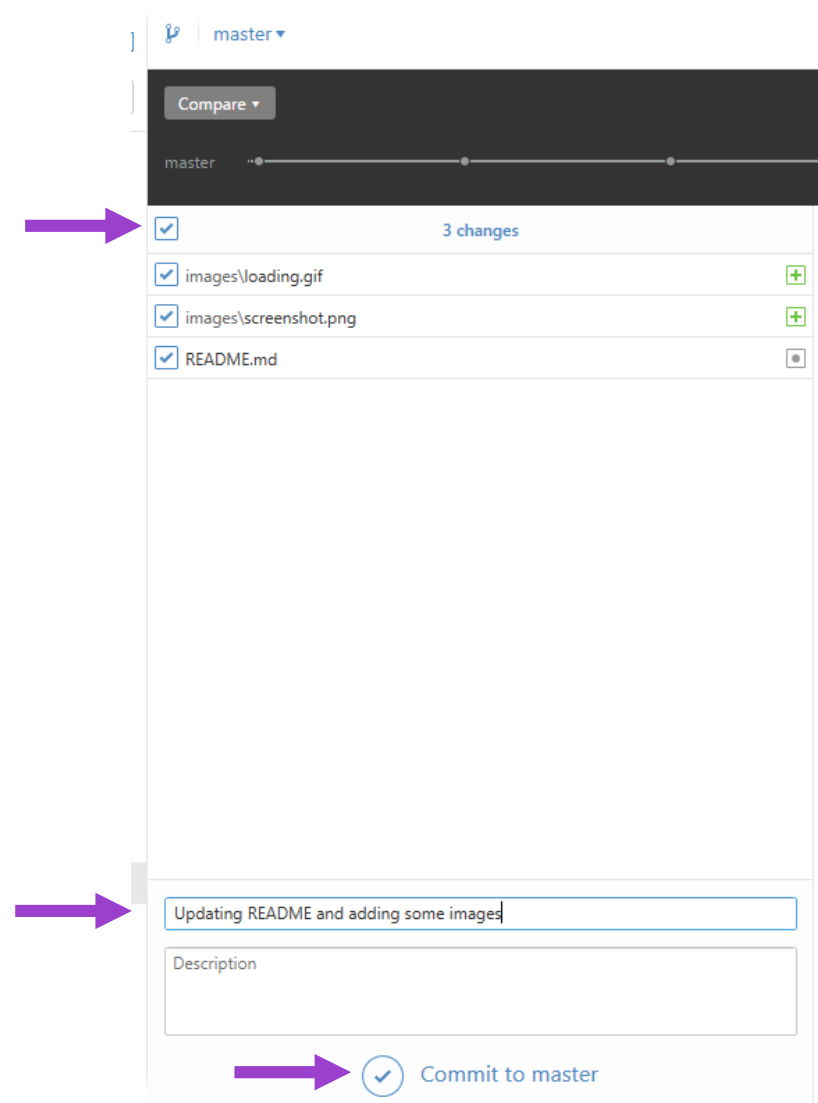


Local Setup

Clone Repository



Add Files and Commit



The screenshot shows the GitHub commit interface. At the top, there's a dark header with a 'Compare' dropdown and a progress bar. Below this, a list of files to be committed is shown, each with a checkbox. A purple arrow points to the first checkbox. The files listed are 'images\loading.gif', 'images\screenshot.png', and 'README.md'. Below the file list, there's a text input field for the commit message, a 'Description' field, and a 'Commit to master' button. A purple arrow points to the commit message field, and another purple arrow points to the 'Commit to master' button.

master

Compare

master

☒ 3 changes

☒ images\loading.gif

☒ images\screenshot.png

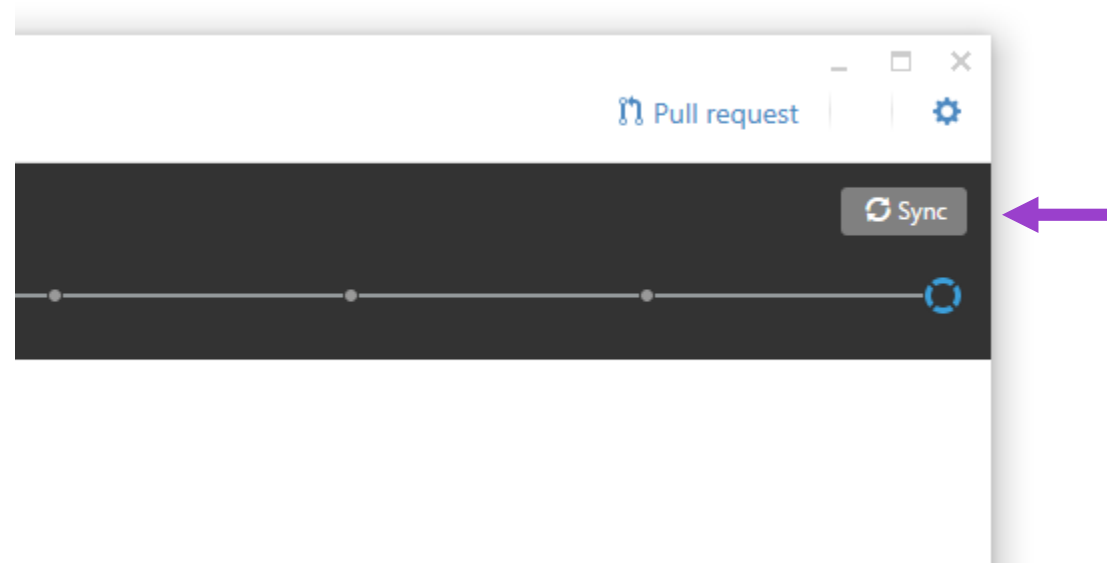
☒ README.md

Updating README and adding some images

Description



Sync Files to the “Cloud”





Updating Site

Repeat: Commit and Sync!

Compare master

3 changes

- ☒ images\loading.gif
- ☒ images\screenshot.png
- ☒ README.md

Updating README and adding some images

Description

☒ Commit to master

Pull request

Sync

User Site with Custom URL

User Site

- Each account/organization is allowed one “user” site
- Hosted at: **username.github.io**
- Setup
 - Create a repository named username.github.io (e.g. mikewesthad.github.io)
 - Upload files to the master branch
 - More setup info: pages.github.io

Custom Domain

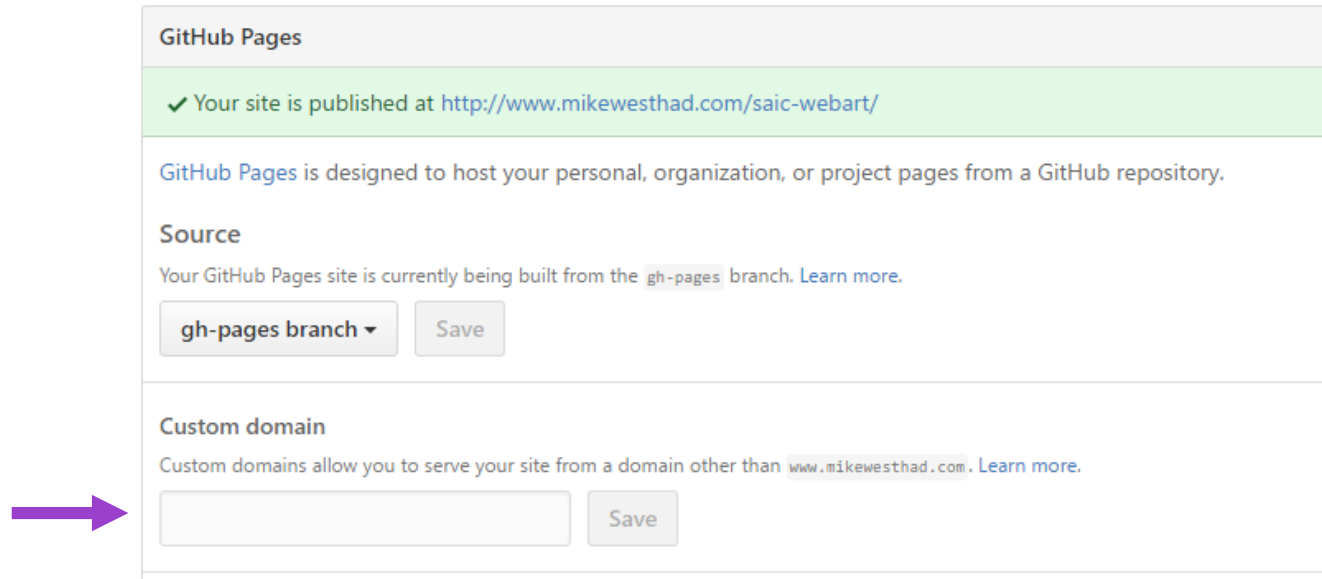
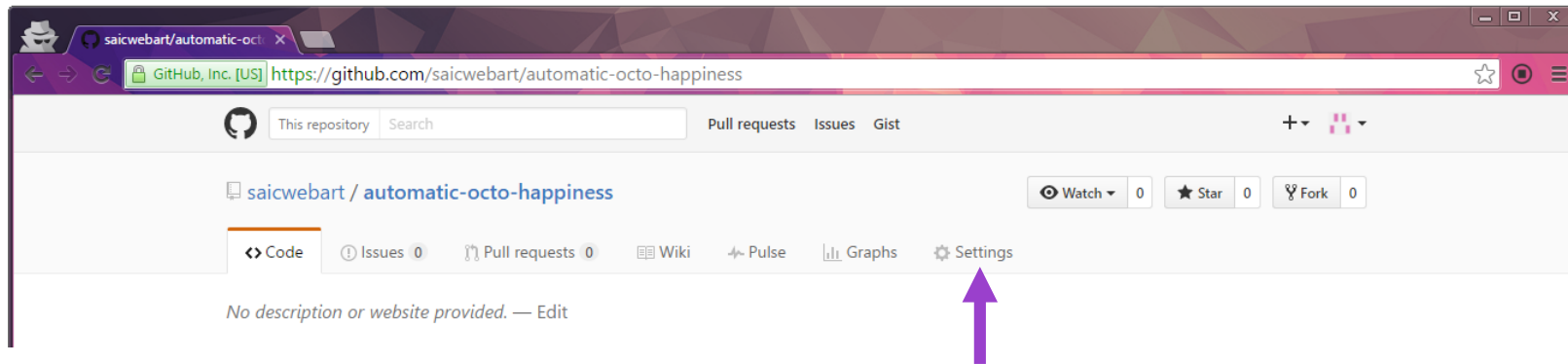
1. Buy a domain name (e.g. GoDaddy, NameCheap, Google Domains, etc.)
2. Update settings on GitHub to point to new domain
3. Configure domain with your provider

Guide:

help.github.com/articles/using-a-custom-domain-with-github-pages/

Free .me Domain: <https://education.github.com/pack>

Update Settings








GoDaddy Configuration Example

Records

Last updated 09/11/2016 8:40 AM

GitHub IP Addresses

Type	Name	Value	TTL	
A	@	192.30.252.153	1 Hour	
A	@	192.30.252.154	1 Hour	
CNAME	www	<input type="text"/>	1 Hour	

Enter "username.github.io" here

Extra: CMS with Jekyll



[GitHub tutorial](#)