



Intro to GitHub Pages

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Agenda

- What is GitHub Pages?
- Why should you use GitHub Pages?
- What can't you do with GitHub Pages?
- How to get started
- Setting up a custom domain
- Interactive Demo:
 - Creating a simple static site
 - Deploying the site to GitHub pages
 - Connecting a custom domain to your site
- Questions?

What is GitHub Pages?

What is GitHub Pages?

- GitHub pages is a way to host your static files and websites on GitHub
- It's very simple to use and set up, only requiring a few clicks for existing repositories!
- It's one of the best ways for new and experienced developers to quickly get your websites live
- Even the WinHacks website, winhacks.ca, uses GitHub pages!
- GitHub pages can also be used to render Markdown files (like README.md) to HTML automatically!
 - It uses something called Jekyll to accomplish this
 - You can also use Jekyll to make blogs!

Why should you use GitHub Pages?

Why should you use GitHub Pages?

- **It's easy**
 - There are only a few steps needed to get your website live
- **It's free!**
 - It's completely free to use GitHub pages, so why not try it out?
- **It's convenient**
 - Instead of using GitHub to store the code for your website and another service to host it, why not just use GitHub for everything?
- **Show off your work**
 - If you don't already have a way to host your static sites, GitHub pages is a great way to do so!
 - This is perfect for showing off your hack so people can actually use it!

What you can't do with GitHub Pages (Drawbacks)

Drawbacks

- You can't host backend websites.
 - GitHub Pages is for static content only. For backend servers, you will need to use some sort of server like Google Cloud Platform (GCP).
 - What's the difference between backend and static?
 - Backend websites will be created using something like PHP, NodeJS, Python, Rails, etc.
 - Static websites are normally just HTML, CSS, and Javascript
- You can't as-easily host websites that use frontend frameworks
 - Some websites are built using frontend frameworks such as React, Svelte, and Vue.
 - These websites can be hosted on GitHub pages, but you need to build them first
 - This creates static files that GitHub pages can host.
 - We won't be covering this today, but there are many resources on how to do this, simply search up "how to host a React website on GitHub pages" or something similar

How to get Started

Getting Started

- Create a GitHub account (if you don't already have one) and log in
- Create a new repository where you'll host your static site
- Upload any files to the repository that you would like to be hosted
 - The "main" page of your website should be called "index.html"
- Enable GitHub pages in your repository
 - Go to your repository settings, and go under the "pages" section
 - This should bring you to the "Github Pages" settings screen
 - Under "source", select a branch (this is probably either "main" or "master")
 - Hit "save"
- Check out your new website!
 - It should give you a link to your website on the GitHub Pages settings screen we were on earlier
 - Now, every time you push to this repository your website will be automatically updated!

Setting up a Custom Domain

Setting up a Custom Domain

- Purchase a domain from a domain registrar. We recommend Namecheap
- Edit the domain's DNS records:
 - Create a new CNAME record
 - Make the "host" the subdomain you want (for example, 'www' for 'www.example.com')
 - Make the "destination" "YourUsername.github.io", replacing "YourUsername" with your GitHub username
 - Note: it may take a few minutes to an hour for this change to propagate!
- Go back to the repository settings and put your domain under the "custom domain" field
- Check out your new website!

Apex Domains on GitHub Pages

- What if you don't want your website to use a subdomain?
- Apex domains are the "root" domain. For example, in the website `www.example.com`, `example.com` is the apex domain
- Apex domains on GitHub pages can get a bit tricky
- Instead of using Apex domains, we recommend the following:
 - Configure the domain as normal using the "www" subdomain
 - Creating a URL redirect on your domain's DNS settings that points your apex domain to your www subdomain.
 - How this is accomplished is different depending on what registrar you bought your domain from
- If you want to learn more, read [this article](#)

Interactive Demo

Questions?

THANK YOU FOR JOINING US!
discord.win hacks.ca