



- ◀ Computing • Computer programming
 - Intro to HTML/CSS: Making webpages
 - Web development tools

Hosting your website on Github

 Google Classroom

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[Github](#) is a company that hosts "code repositories", collections of code for projects. Many of the code repositories are "open source", which means they're publicly available for the whole world to browse. That's awesome, because that's how programmers learn from each other and build on each other's work! Khan Academy has quite a few [open source repositories](#). Code repositories can contain all sorts of types of code, not just HTML and CSS - whatever code is needed to make the project work.

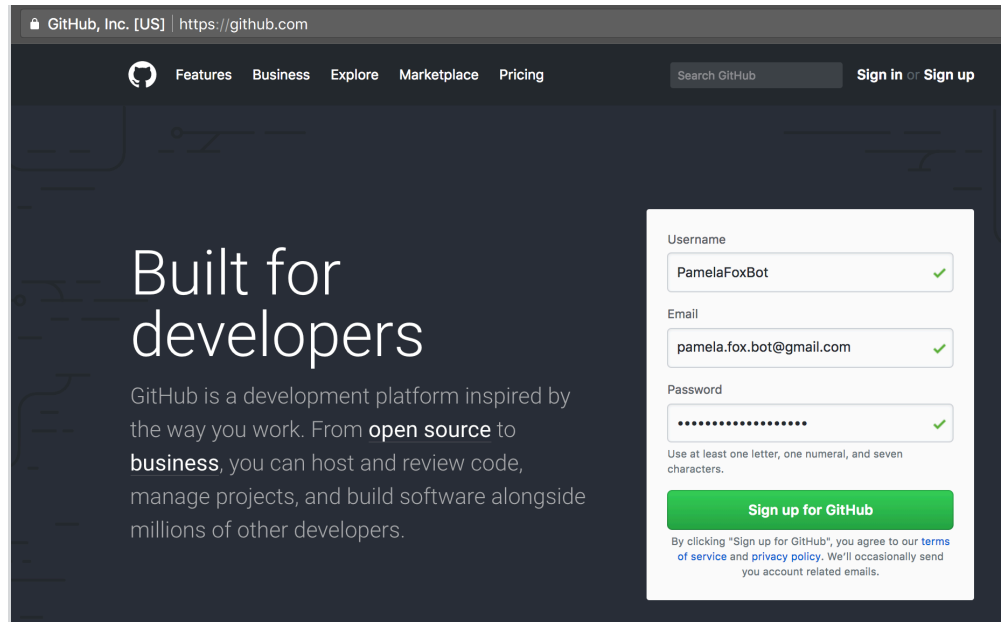
Why am I telling you about them? Well, Github has a feature called [Github Pages](#), which makes it easy and free for you to create a multi-file website hosted at `yourusername.github.io`.

Note: Khan Academy is not affiliated with Github. Please consult the Github Terms of Use and other policies before deciding to sign up for an account, especially if you are under 13 years of age.

Sign up for a Github account

Visit github.com, and you'll see a signup form on their front page. (If you don't, congrats, you already have an account! You can skip to Step 2).

When you're picking up your username, keep in mind that it will be publicly viewable on the internet and it will be in the URL of your website: `yourusername.github.io`. Some people like to use nicknames or funny names instead of their real name, for privacy reasons, but that's up to you.

A screenshot of the GitHub website's sign-up page. The page has a dark blue background with the GitHub logo and navigation links (Features, Business, Explore, Marketplace, Pricing) at the top. A search bar and 'Sign in or Sign up' links are on the right. The main heading is 'Built for developers'. Below it, a paragraph describes GitHub as a development platform. On the right, there is a white sign-up form with fields for Username (PamelaFoxBot), Email (pamela.fox.bot@gmail.com), and Password (masked with dots). A green 'Sign up for GitHub' button is at the bottom of the form, with a small disclaimer below it.

GitHub, Inc. [US] | <https://github.com>

Features Business Explore Marketplace Pricing Search GitHub Sign in or Sign up

Built for developers

GitHub is a development platform inspired by the way you work. From **open source** to **business**, you can host and review code, manage projects, and build software alongside millions of other developers.

Username
PamelaFoxBot ✓

Email
pamela.fox.bot@gmail.com ✓

Password
..... ✓
Use at least one letter, one numeral, and seven characters.

[Sign up for GitHub](#)

By clicking "Sign up for GitHub", you agree to our [terms of service](#) and [privacy policy](#). We'll occasionally send you account related emails.

On Step 2, **choose the free plan**. Your website repository will be public, so you don't need to pay for private repositories. (You can always upgrade later if you become a prolific Github user and need private repositories!)

Computing > Computer programming > Intro to HTML/CSS: Making webpages > Web development tools
Web development tools



Using the browser developer tools



Developing webpages
outside of Khan Academy



Hosting your website on a
server



Hosting your website on
Github

Next tutorial

Welcome to GitHub

You've taken your first step into a larger world, @PamelaFoxBot.



Completed
Set up a personal account



Step 2:
Choose your plan



Step 3:
Tailor your experience

Choose your personal plan

- ☒ Unlimited public repositories for free.
- ☐ Unlimited private repositories for \$7/month.

Don't worry, you can cancel or upgrade at any time.

☐ **Help me set up an organization next**
Organizations are separate from personal accounts and are best suited for businesses who need to manage permissions for many employees.
[Learn more about organizations](#)

☐ **Send me updates on GitHub news, offers, and events**
Unsubscribe anytime in your email preferences. [Learn more](#)

Continue




Both plans include:

- ✓ Collaborative code review
- ✓ Issue tracking
- ✓ Open source community
- ✓ Unlimited public repositories
- ✓ Join any organization

On Step 3, you can answer the survey questions or skip that step:

Welcome to GitHub

You'll find endless opportunities to learn, code, and create,
@PamelaFoxBot.

 Completed Set up a personal account	 Step 2: Choose your plan	 Step 3: Tailor your experience
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How would you describe your level of programming experience?

- ☐ Totally new to programming
 ☒ Somewhat experienced
 ☐ Very experienced

What do you plan to use GitHub for? (check all that apply)

- ☐ Design
 ☐ Development
 ☐ Project Management
☒ School projects
 ☐ Research
 ☐ Other (please specify)

Which is closest to how you would describe yourself?

- ☒ I'm a student
 ☐ I'm a professional
 ☐ I'm a hobbyist
☐ Other (please specify)

What are you interested in?

web-development
 



e.g. tutorials, android, ruby, web-development, machine-learning, open-source


Submit
 skip this step

After you fill out the new account form, make sure you check your email inbox and **click the link** to verify your email address:



[GitHub] Please verify your email address.

Inbox x


GitHub <noreply@github.com>
to PamelaFoxBot

11:01 AM (0 minutes ago) ☆

Hi @PamelaFoxBot!

Help us secure your GitHub account by verifying your email address (pamela.fox.bot@gmail.com). This lets you access all of GitHub's features.

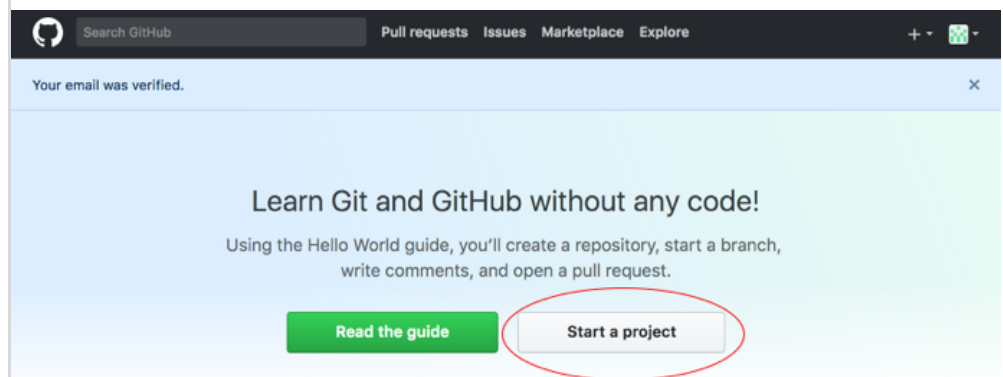
[Verify email address](#)

Button not working? Paste the following link into your browser:
https://github.com/users/PamelaFoxBot/emails/46090379/confirm_verification/94e272f70e730588c858d3c449032333d1742e93

You're receiving this email because you recently created a new GitHub account or added a new email address. If this wasn't you, please ignore this email.

Create a Github project for your website

Once you verify your email address, you'll see the start page. Click **"Start a project"**.



On the project creation page, you'll be asked for a project name. **Make sure to name your project exactly "YOUR_USERNAME.github.io"**. That tells Github that you're making a special webpage project, so that it knows to upload your files to that user-facing URL whenever you change them. Since my username was "PamelaFoxBot", I named my project "PamelaFoxBot.github.io":

Create a New Repository

https://github.com/new

Search GitHub Pull requests Issues Marketplace Explore

Create a new repository

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

Owner: PamelaFoxBot / Repository name: PamelaFoxBot.github.io

Great repository names are short and memorable. Need inspiration? How about **verbose-potato**.

Description (optional): Project website

☒ 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

Congratulations, you have a new project! But it has no files yet. As a quick way to create the first file, click the "README" link:

PamelaFoxBot / PamelaFoxBot.github.io

Watch 0 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH https://github.com/PamelaFoxBot/PamelaFoxBot.github.io.git

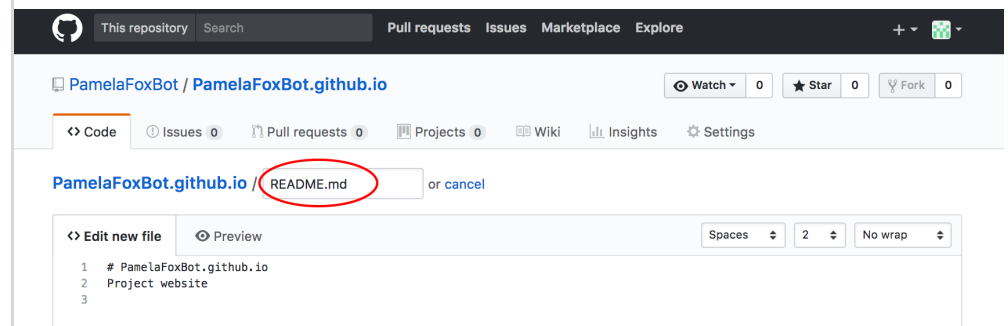
We recommend every repository include a **README**, LICENSE, and .gitignore.

...or create a new repository on the command line

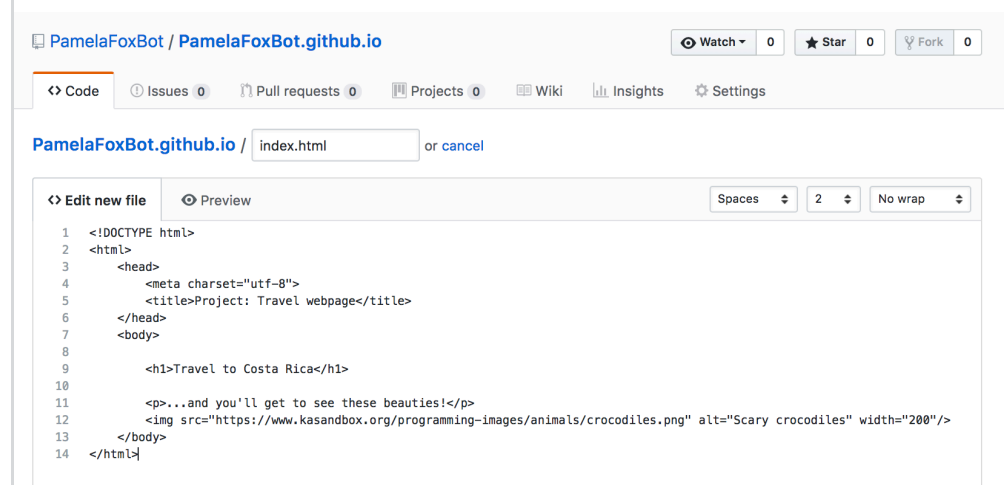
```
echo "# PamelaFoxBot.github.io" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/PamelaFoxBot/PamelaFoxBot.github.io.git
git push -u origin master
```

Now you're looking at the Github file editor

interface, for a file named `README.md`. **Change the filename from `README.md` to `index.html`.** Servers expect `index.html` to be the name of the main file of a website folder. Your index can then link to other pages of the website.

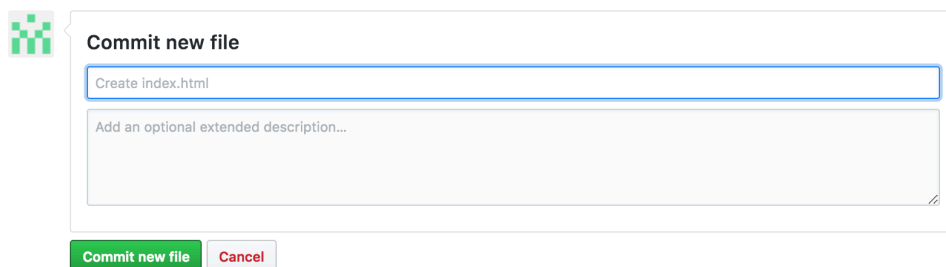


Delete the current contents of the file editor and replace them with the HTML of your webpage. You can copy and paste the HTML from a project from Khan Academy or one you've been developing on your computer.



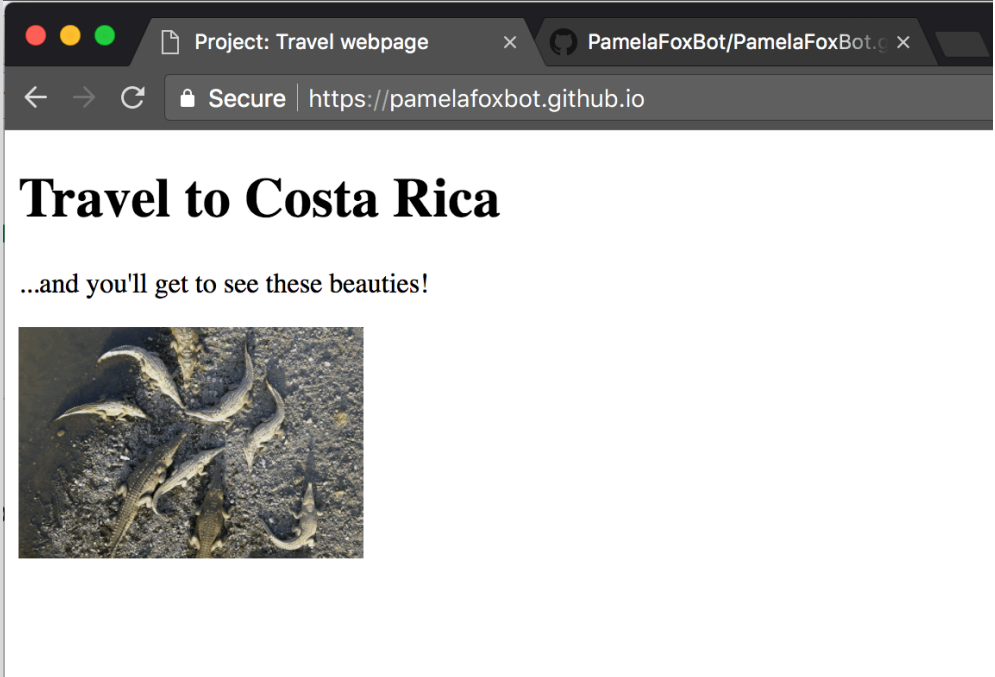
Scroll down the page until you find the Commit

area, and click **“Commit new file”**. Every time you create a new version of a file, you are making a “commit” to record that in the file version history. Each commit has a message to describe the change. Github suggests a default message (“Create index.html”, in this case), but you can override that by typing in the box.

A screenshot of the Github 'Commit new file' dialog box. It features the Github logo (a green octocat) on the left. The title 'Commit new file' is at the top. Below the title is a text input field containing 'Create index.html'. Underneath that is a larger text area with the placeholder text 'Add an optional extended description...'. At the bottom of the dialog are two buttons: a green 'Commit new file' button and a grey 'Cancel' button.

Type **YOUR_USERNAME.github.io** in the browser, and reload until your webpage appears.


Github takes from 1-10 minutes to upload your project changes to the user-facing webpage URL, so you may need to exercise patience. You may also need to "hard reload" (hold shift while reloading), to clear the browser cache.



The screenshot shows a web browser window with two tabs. The active tab is titled 'Project: Travel webpage' and the address bar shows 'Secure | https://pamelafoxbot.github.io'. The webpage content includes a main heading 'Travel to Costa Rica', a subtext '...and you'll get to see these beauties!', and a photograph of several crocodiles on a sandy beach. Below the image, there is a large heading 'Upload multi-file websites to Github', followed by a paragraph explaining that multi-file websites can be hosted on Github without manually uploading each file. The text continues with 'If you want to upload that website to Github, don't worry, you don't need to copy and paste each of those files individually! That would get quite tedious indeed. There's a better way...' and ends with the instruction 'Open your project on Github and click "Upload files".'

Travel to Costa Rica

...and you'll get to see these beauties!

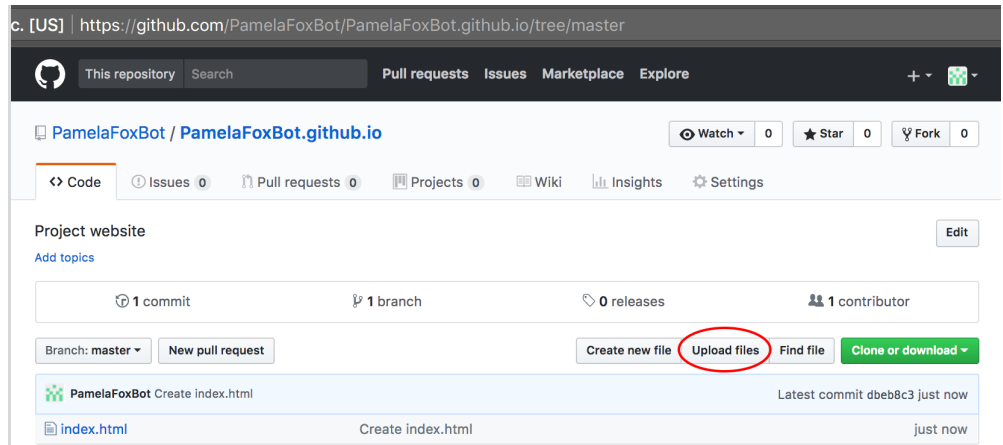


Upload multi-file websites to Github

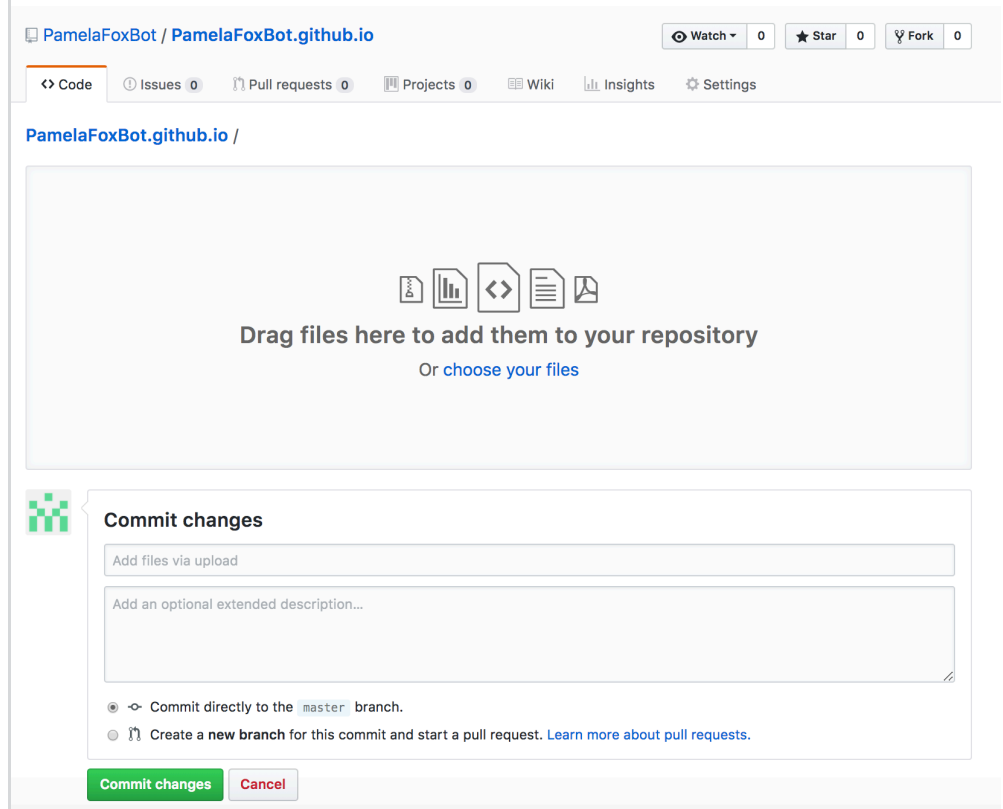
Some of you may already be working on multi-file websites outside of Khan Academy, using a desktop editor. Your website might have multiple HTML, CSS, JS, and image files.

If you want to upload that website to Github, don't worry, you don't need to copy and paste each of those files individually! That would get quite tedious indeed. There's a better way...

Open your project on Github and click "Upload files".

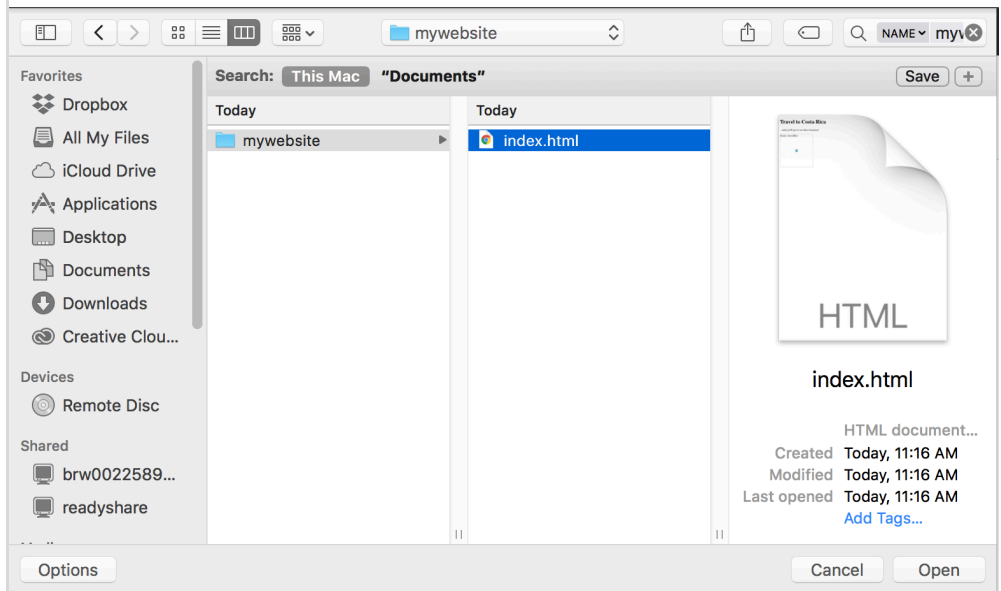


You'll see the Github file uploader interface. To select your files, **drag-and-drop** or use the **file chooser**:




Find your project folder and select the files you want to upload.

Generally, you want to upload whatever files you've changed. If you're not sure, just upload everything. Github will use an algorithm to figure out what has and hasn't changed, and only make new versions for changed files.



Change the commit message as desired and click "Commit changes".


PamelaFoxBot.github.io /



Drag additional files here to add them to your repository

Or [choose your files](#)

index.html



Commit changes

Upload index.html instead

Add an optional extended description...

☒ Commit directly to the `master` branch.

☐ Create a **new branch** for this commit and start a pull request. [Learn more about pull requests.](#)

Commit changes

Cancel

Reload your webpage to see the changes!

Remember that it takes up to 10 minutes. Patience is our friend here. 😊

That's why it's best to do your development and testing in your local desktop environment, and only upload to Github (or any other hosting provider) once you're happy with how your website looks locally.

Project: Travel webpage


PamelaFoxBot/PamelaFoxBot.g

Secure

https://pamelafoxbot.github.io

Travel to Costa Rica

...and you'll get to see these beauties!




Sort by:

Top Voted


Questions

Tips & Thanks

Question



Ask a question...



gabild004

8 months ago

more



Hi

Before clicking the "Create Repository" green button, I clicked the "Initialize this repository with a README", and I think this was the

reason I couldn't find the change option from README.md to index.html. Please help me find the change area in order to make exactly like you showed us.

Reply • ¹ comment (6 votes)  Upvote  Downvote 



pamela ❤️ 8 months ago  m... 

From the author:

In that case, click on README.md, then click the pencil icon in the upper right corner to edit it. In editing mode, you can rename it to index.html and fill it with HTML, like the screenshot shows. (Making a README.md is the easiest way to open up Github's file editing interface)

Comment (20 votes)  Upvote  Downvote 

See 1 more reply



giraffelovesdolphin 6 months ago

more ▾

Hello Pamela! I am a 12 year old coder. Your lessons inspired me so much and I fell in love with Coding because of you. Thank you so much! I try to solve all the coding problems by myself. I'm super close to having my very first website but I just cannot make a functioning search bar.

Can you pleeeeeease help me? I have no one else in real life to help me with that.

Reply • **12** (8 votes)  Upvote  Downvote 



Jake Thakur 6 months ago

mo... ▾

Search bars are fairly difficult to make unfortunately. A lot of websites (including Khan Academy) use Google CustomSearch to make their search function - you could look that up online to see how to use that.

Comment (7 votes)  Upvote  Downvote 

See 2 more replies



BB-8 8 months ago

more ▾

Can I run my JavaScript code on GitHub? (we can run our code here on Khan Academy)

Reply • **Comment** (4 votes) ▲ Upvote ▼ Downvote 📌



Blaze 8 months ago



more ▾

If you are looking to directly use your KA programs' HTML, then you can copy and paste that very easily.

However, if you are looking to use Khan Academy's PJS environment, you may want to take a look at this helpful template by Pamela:
<https://www.khanacademy.org/computer-programming/processingjs-inside-webpages-template/5157014494511104>

1 (10 votes) ▲ Upvote ▼ Downvote 📌
comment

See 2 more replies



Amit Jung Himali 8 months ago

more ▾

Hi, i was made a website and wanted to post in the web. i did all the steps exactly as you told and even waited for ten minutes but then afterward i have no clue and the site is also not shown as i had created it. how to solve it? can anyone help me

Reply • **Comment** (2 votes)  Upvote  Downvote 



Someone Dun 8 months ago

m... ▾

Hey there, Could you possibly try going into the repository's settings and scrolling down till you see Github Pages, it should say ' Your site is published at <https://YOURUSERNAME.github.io> /', replacing YOURUSERNAME with the username that you input into the site. If it doesn't, someone else may be able to help you.

1 (4 votes)  Upvote  Downvote 

See 1 more reply



Super Mario (gone) 7 months ago

[more](#) ▾

Isn't Khan Academy a github site? How come it's not named khanacademy.github.io site then?

Reply • **1** comment (1 vote) [▲ Upvote](#) [▼ Downvote](#) [🔖 F](#)



pamela ❤️ 4 months ago

[more](#) ▾

Khan Academy is hosted on Google Cloud (Google App Engine), specifically. We store our code in Github repositories, but we deploy it to the Google servers. We would not be able to run it on Github as our code has both a frontend (HTML/CSS/JS) and a backend (Python/Kotlin). It is only possible to host frontend-only websites on Github.

1 comment (4 votes) [▲ Upvote](#) [▼ Downvote](#) [🔖 F](#)

[See 2 more replies](#)



Dina Magdy 6 months ago

[more](#) ▾

how can someone learn how to host his page without using hosting pages and using his name without wasting money on a domain name!? is it possible?

Reply • **Comment** (1 vote) [▲ Upvote](#) [▼ Downvote](#) [🔖 I](#)



Bob Lyon 6 months ago

[more](#) ▾



You do not need to pay money for a presence on the web.

Most routers ("internet modems") allow you set up port-forwarding to a machine in your home. You simply need to run an HTTP server there. Various server software packages are available for free. For example, Apache2 is free and is the most popular software on the planet.

You do not need a domain name. URLs can be constructed using IP addresses. For example, visit my page at <http://75.37.194.250/~blyon/Javascript/paddle/>

That said, there are free domain name services. For example, check out <https://dyn.com/dynamic-dns/>

In conclusion, what you desire is very much possible, **provided** you have the skill to do all of the necessary steps. If it doesn't kill you, it will make you stronger.

3
comments

(4
votes)



Upvote



Downvote





dannasikireeti 7 months ago

more ▾

is it possible to make money using this website or how to make money using domine purchase?

Reply • **Comment** (2 votes)  Upvote  Downvote 



πceratops (Caleb Winston) 7 months ago

You can add advertisements to your website by googling "add advertisements to your website" and following instructions.

3 comments (1 vote)  Upvote  Downvote 



BlueOrigin 7 months ago

more ▾

I want to make an account, but in an effort to be prudent, I want to be sure that this is safe. Can I delete the account at any time? Will my email address be secure? Anything you can write to give me more info on this topic will be appreciated. Thanks.

Reply • **Comment** (1 vote) ▲ Upvote ▼ Downvote 📌



7 months ▾

πceratops (Caleb Winston) ago

Yes, GitHub is a very secure site trusted by millions of programmers already.

And yes, you can delete your account at any time.

And yes, it is wise to take precautions as always and you should ensure you have a reasonably complex password and ideally change every now and then.

1 (3 votes) ▲ Upvote ▼ Downvote 📌
comment



BlueOrigin 7 months ago

more ▾

I made a website on Github, and was wondering if there is any way to share the URL here so that other people can look at it. I want some feedback on my HTML/CSS programming, but I am concerned that if I share the URL here on Khan Academy, it will be considered spam. Can I post the URL somewhere on the website, or is that not allowed?

Reply • **Comment** (1 vote) ▲ Upvote ▼ Downvote 📌



7 months ▾

πceratops (Caleb Winston) ago

As long as the content of your website is not something that would violate guidelines for projects here on Khan Academy, guardians will probably be OK with sharing a link to your website hosted on GitHub.

Comment (3 votes) ▲ Upvote ▼ Downvote 📌



Renaeus VII 4 months ago

more ▾

Can you create multiple domains on GitHub?

Reply • 4 (1 vote)  Upvote  Downvote 



Omnia ❤️ 3 months ago

more ▾

Yes. Just press "start a new project"

1 (2 votes)  Upvote  Downvote 

Show more...

◀ Hosting your website on a server