



If you haven't already...

Go to [github](#) and create an account and
[download GitHub Desktop](#)



GitHub

Repository Basics

What you will use GitHub for...

- Store all your code and projects safely
- Share your code and projects
- Create a portfolio to link on your CV or to your LinkedIn

What it also can be used for

- Version Control - the primary use of GitHub is to store a copy of code everyone in a data team can work on. Individuals make changes on a “branch” and create a “pull request” for team mates to review and approve before adding.
- Apps - we're not building an app as you might see in some developers GitHub accounts. The focus is on presenting your analytical skills

Creating a Repository

Let's use this template...

The screenshot shows the GitHub interface for a repository named 'project_template' by user 'prismgreg'. The repository is public and has 1 branch and 0 tags. The 'Code' button is highlighted with a green border, and its dropdown menu is open, showing options to clone the repository using HTTPS, SSH, or GitHub CLI. The URL 'https://github.com/prismgreg/project_template' is displayed, and a small icon of a computer with a plus sign is circled in blue. The 'About' section on the right indicates no description, website, or topics are provided. The 'Releases' section shows no releases published, and the 'Packages' section shows no packages published.

prismgreg / project_template

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

project_template Public

Pin Unwatch 1 Fork 0 Star 0

main 1 branch 0 tags

Go to file Add file <> Code

prismgreg Initial commit

README.md Initial commit

README.md

project_template

Local Codespaces

Clone

HTTPS SSH GitHub CLI

https://github.com/prismgreg/project_template

Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop

Open with Visual Studio

Download ZIP

About

No description, website, or topics provided.

Readme Activity 0 stars 0 watching 0 forks

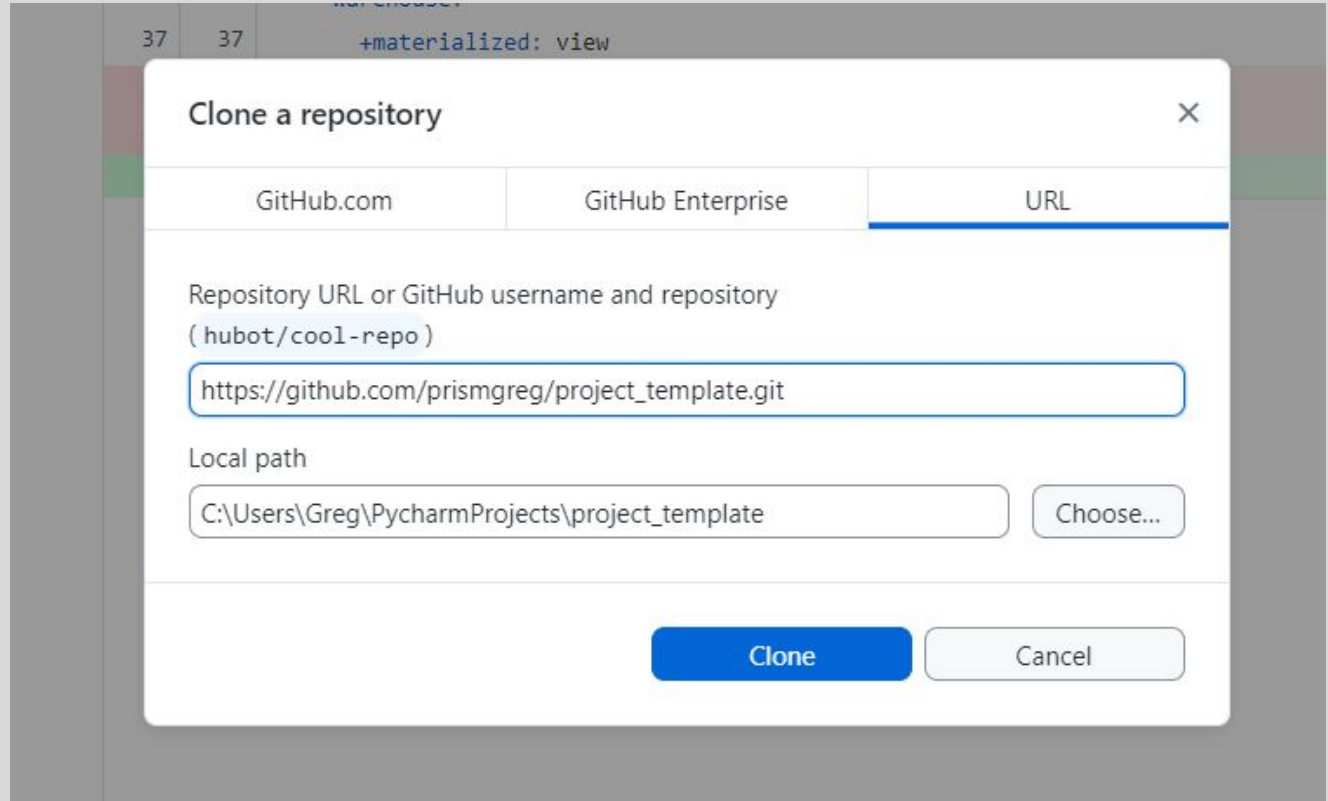
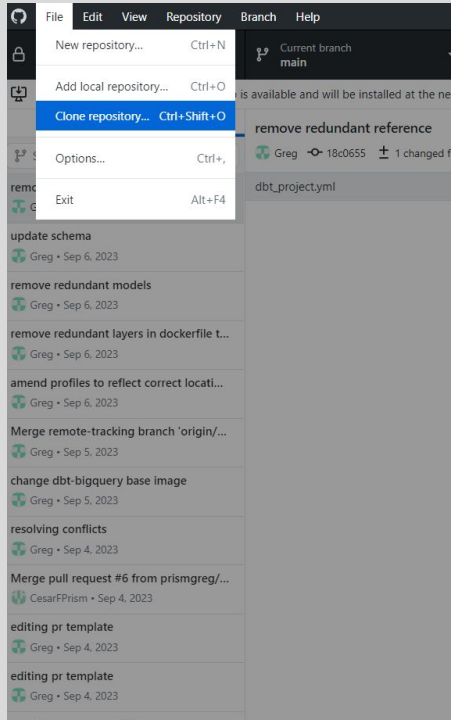
Releases

No releases published
[Create a new release](#)

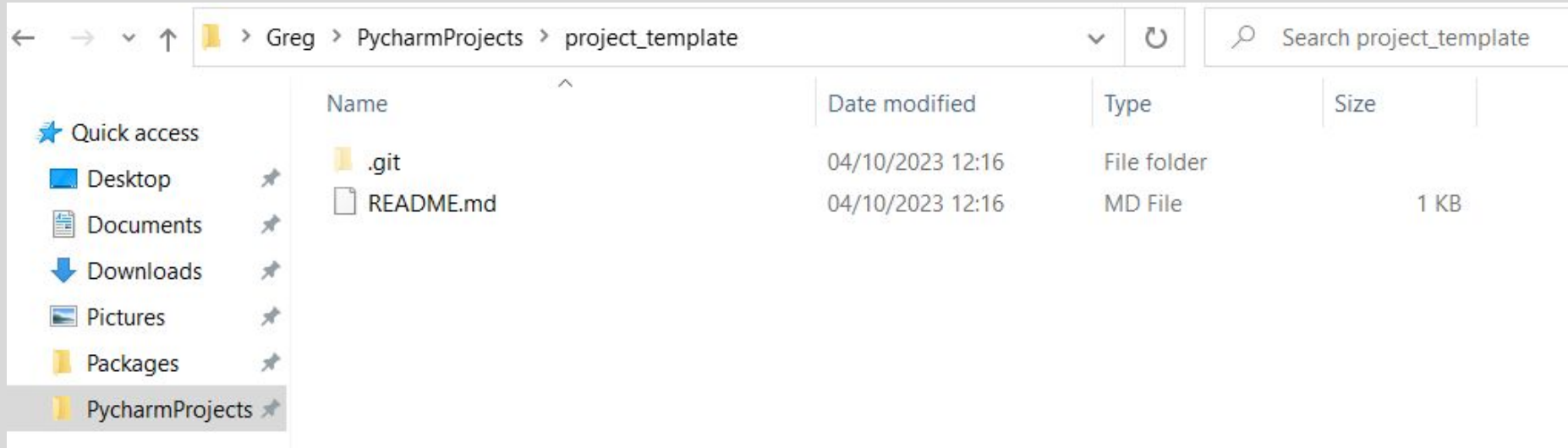
Packages

No packages published
[Publish your first package](#)

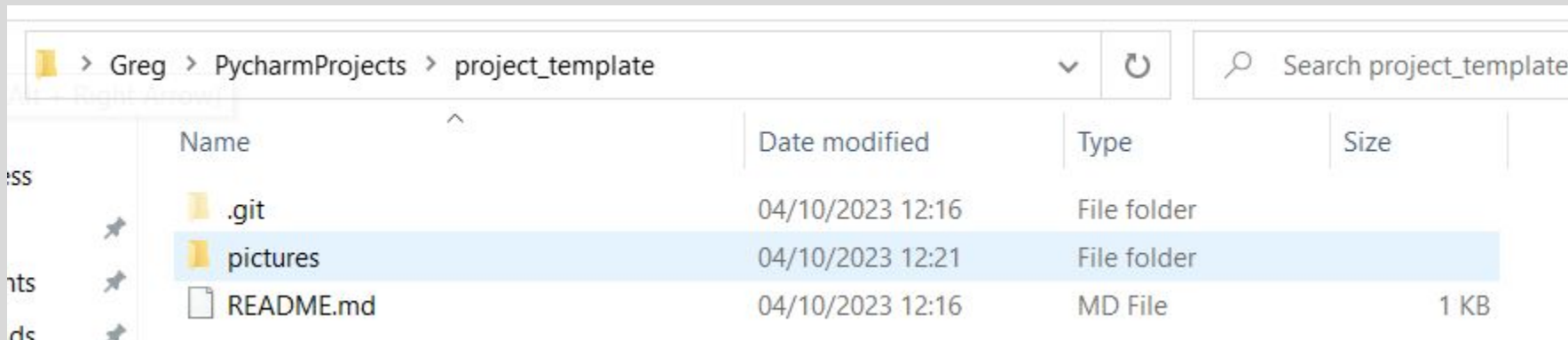
Clone the example repository (essentially downloads it)



You can add files to the repository or edit them locally

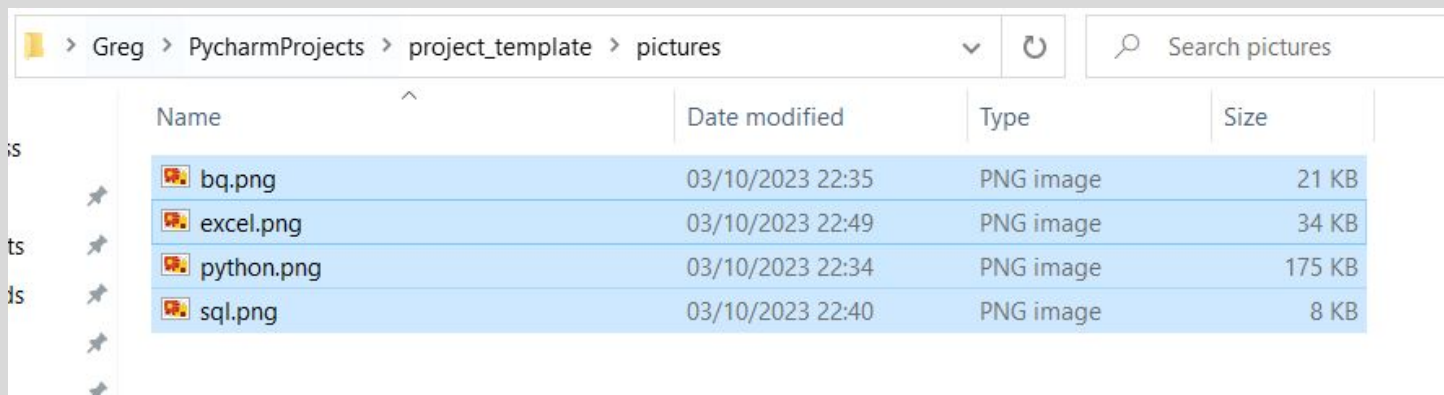


Let's add some pictures to use in our readme



File Explorer view of the directory: Greg > PycharmProjects > project_template. The search bar contains "Search project_template". The table below shows the contents of the directory.

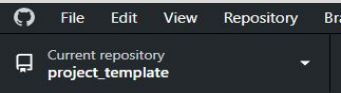
Name	Date modified	Type	Size
.git	04/10/2023 12:16	File folder	
pictures	04/10/2023 12:21	File folder	
README.md	04/10/2023 12:16	MD File	1 KB



File Explorer view of the directory: Greg > PycharmProjects > project_template > pictures. The search bar contains "Search pictures". The table below shows the contents of the 'pictures' folder.

Name	Date modified	Type	Size
bq.png	03/10/2023 22:35	PNG image	21 KB
excel.png	03/10/2023 22:49	PNG image	34 KB
python.png	03/10/2023 22:34	PNG image	175 KB
sql.png	03/10/2023 22:40	PNG image	8 KB

We have those locally, we now want to push them to GH...



An updated version of GitHub Desktop is available.

Changes 4 History

- 4 changed files
- ✓ pictures\bq.png
- ✓ pictures\excel.png
- ✓ pictures\python.png
- ✓ pictures\sql.png

Summary (required)

Description

+ Add

Commit to main

See how the new files appear?

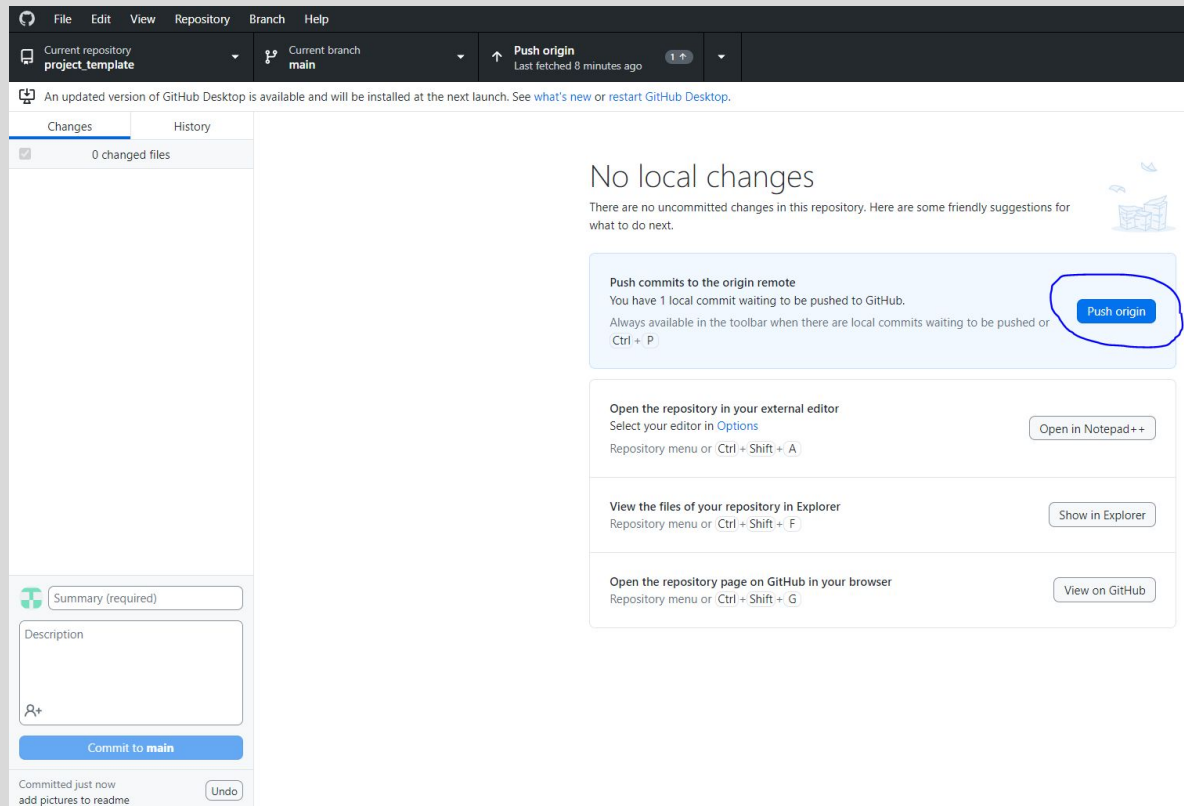
- Git can see the changes we've made locally
- We must *commit* them for git to save them
- We should commit each time we've made a series of changes we are happy with

Let's commit our changes, we should also add a description



We can see our commit was successful below.


This has saved our changes to git locally










Now we push them to GitHub and they will be stored in our online repository... Click *push origin*








Our changes are now visible!




 prismgreg / project_template

Q Type  to search


 Code  Issues  Pull requests  Actions  Projects  Wiki  Security  Insights  Settings


 project_template Public

 Pin  Unwatch 1  Fork 0  Star 0


 main  1 branch  0 tags


[Go to file](#) [Add file](#) [Code](#)


 prismgreg add pictures to readme 74f3fda 1 minute ago 2 commits


 pictures

add pictures to readme 1 minute ago


 README pictures Initial commit 20 minutes ago


README.md 


project_template 


About 


No description, website, or topics provided.

 README

 Activity

 0 stars

 1 watching

 0 forks

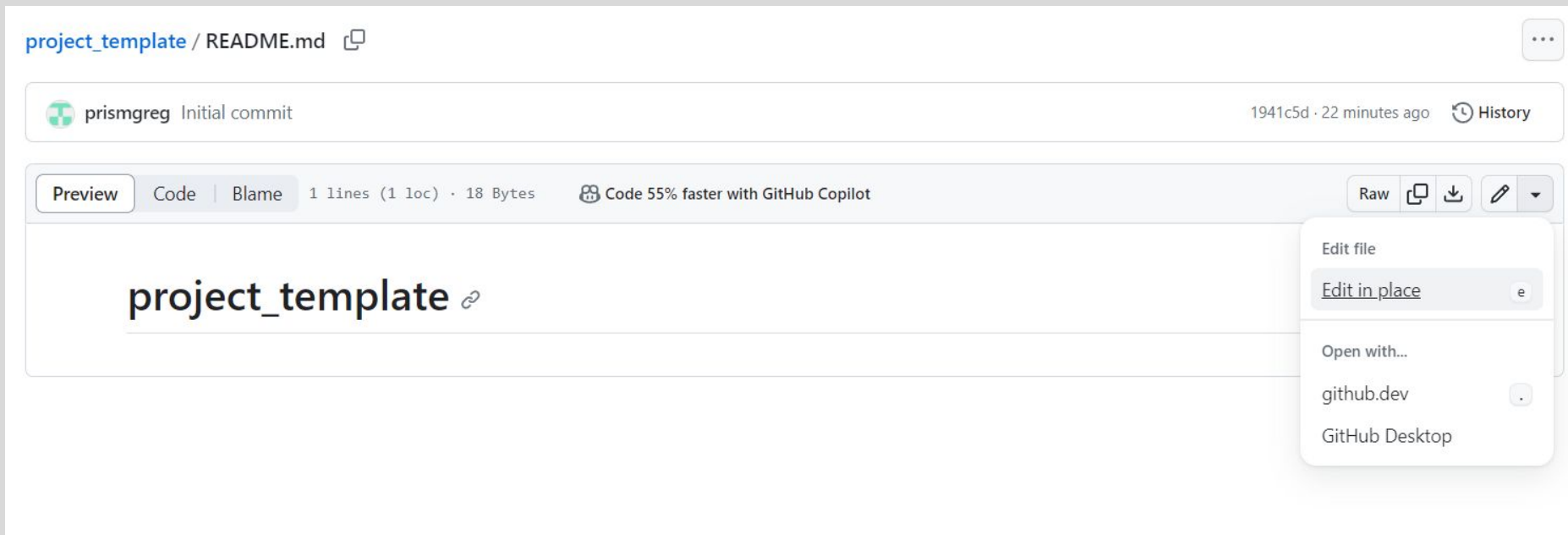
Releases

No releases published

[Create a new release](#)

Now let's edit the readme... This is easiest to do on github (or in a text editor locally, but we'll do it on github for now)

- Click on the readme.md file and go to edit in place



project_template / README.md

prismgreg Initial commit 1941c5d · 22 minutes ago History

Preview Code Blame 1 lines (1 loc) · 18 Bytes Code 55% faster with GitHub Copilot

Raw Copy Download Edit

Edit file

Edit in place

Open with...


github.dev

GitHub Desktop

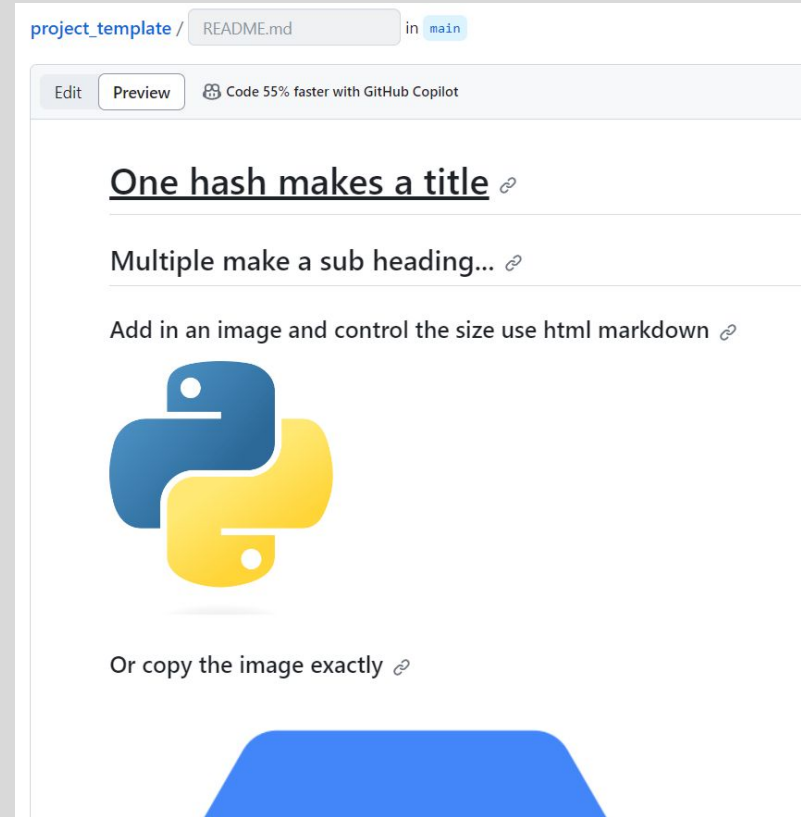
project_template

Make some changes and then preview them...

project_template / README.md in main

Edit Preview  Code 55% faster with GitHub Copilot

```
1 # One hash makes a title
2
3 ## Multiple make a sub heading...
4
5 ### Add in an image and control the size use html markdown
6 
7
8 ### Or copy the image exactly
9 ![Image](./pictures/bq.png)
10
11
12
13
```



Commit your changes and go back to the repository. You should see your changes appear!

The screenshot shows a GitHub repository page for 'project_template' by user 'prismgreg'. The repository is public and has 1 branch (main) and 0 tags. The commit history shows three commits: 'prismgreg Update README.md' (8e6db21, now), 'pictures' (add pictures to readme, 26 minutes ago), and 'README.md' (Update README.md, now). The README file is selected, showing a title 'One hash makes a title', a subheading 'Multiple make a sub heading...', and a paragraph 'Add in an image and control the size use html markdown'. Below the text is a large Python logo image. The right sidebar contains sections for 'About' (No description, website, or topics provided), 'Releases' (No releases published, Create a new release), and 'Packages' (No packages published, Publish your first package).

prismgreg / project_template

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

project_template Public

Pin Unwatch 1 Fork 0 Star 0

main 1 branch 0 tags

Go to file Add file <> Code

prismgreg Update README.md 8e6db21 now 3 commits

pictures add pictures to readme 26 minutes ago


README.md Update README.md now

README.md

One hash makes a title

Multiple make a sub heading...

Add in an image and control the size use html markdown



Or copy the image exactly

About

No description, website, or topics provided.

Readme Activity 0 stars 1 watching 0 forks

Releases

No releases published
[Create a new release](#)

Packages

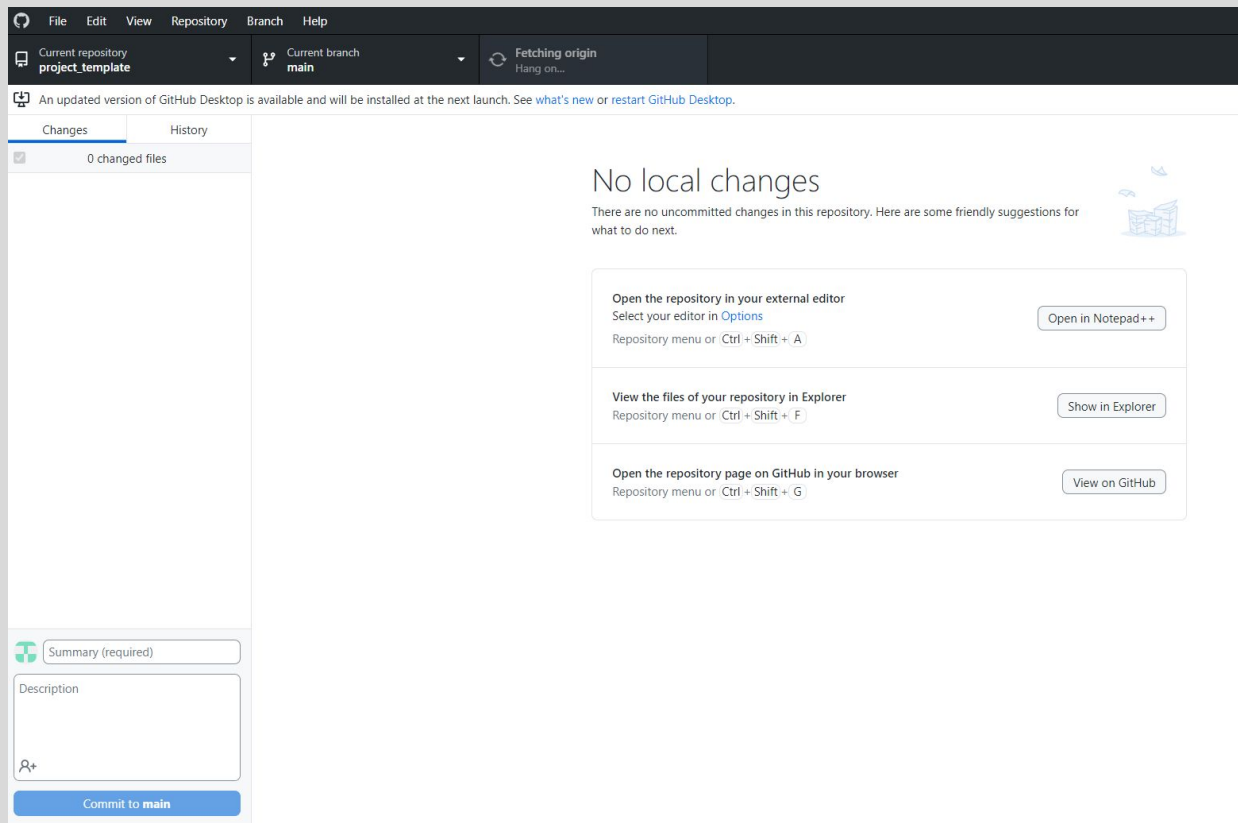
No packages published
[Publish your first package](#)

However we've now made these changes on github... So our local version doesn't. We need to pull them!

Click fetch origin

This will *pull* any changes on the repository to your local

They should now match!



Take home project...

There are many public datasets on BigQuery that you can access. A highly sought after skill is familiarity with Google Analytics.

For next week take a look at the [ga4 sample dataset](#) (more info [here](#))

This is an altered Google Analytics e-commerce dataset

Take home project...

What you need to demonstrate:

- Conduct analysis of the GA4 dataset using BigQuery and a data visualisation tool of your choosing.
- Frame your ReadMe.md in the CAR format:
 - Context, Action, Results
- Insert the visualisations and you can also save your sql files (copy to notepad and save with a .sql extension)

For some inspiration...

- [Example data science project](#)
- [A great GitHub profile](#)
- [Creating a portfolio from a project](#)