What is GitHub?

INTRODUCTION TO GITHUB CONCEPTS

Jasmin Ludolf
Content Developer, DataCamp

Course overview

- How to use GitHub for projects and version control

- Do everyday tasks on GitHub, such as creating Personal Access Tokens (PATs)

Chapter overview

- What is GitHub
- Benefits of using GitHub
- The difference between GitHub and Git

GitHub

- Cloud-based hosting service
- Allows users to store and track their work, aka version control
- On-demand resources over the internet, such as storage
- We don't have to store large files locally!
- Similar to GitHub: GitLab, BitBucket

[1] iStock image credit:vectorwin

GitHub uses

- Storing projects
- Keeping track of projects and files
- Collaborating with others
- Social network
- Open-source projects

[1] iStock illustration ID:981887940

GitHub vs. Git

GitHub

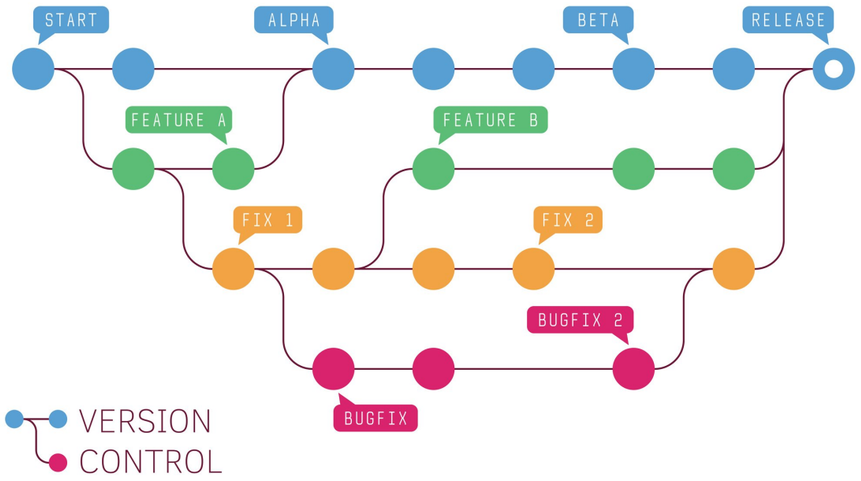
- Enhances Git
- Easier to manage projects and collaborate
- Can't use GitHub without Git

Git

- Version control software
- Can be used without GitHub or other hosting platform

[1] Git Logo by Jason Long is licensed under the Creative Commons Attribution 3.0 Unported License.

Collaborating on GitHub

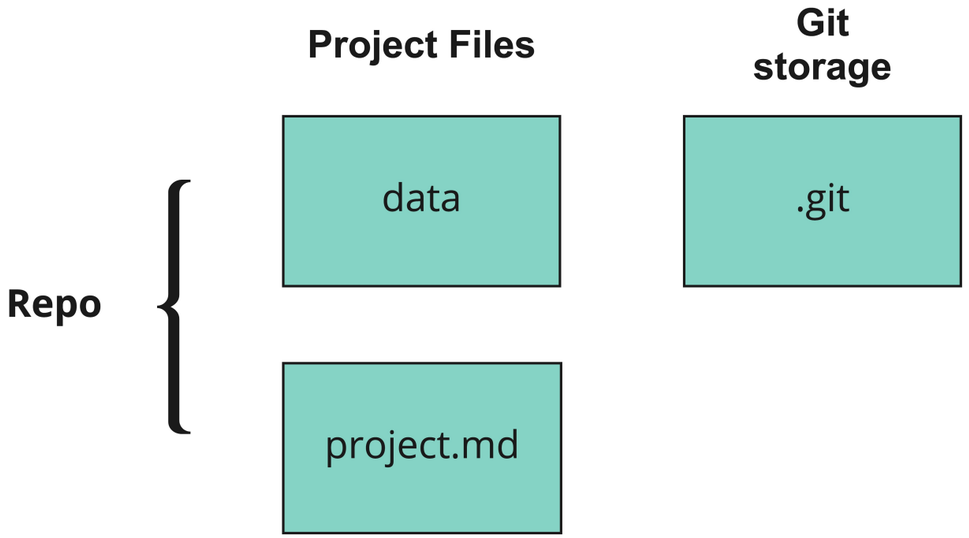


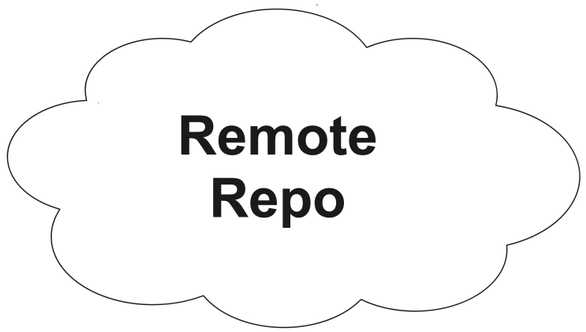
- Tracking a file through its different states
- Several people can work on the same file

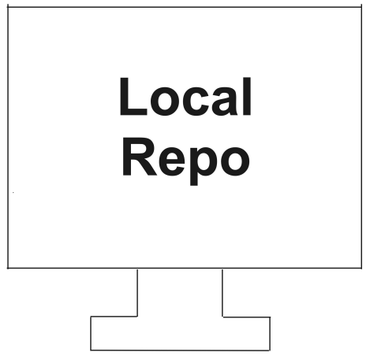
- Can be accessed by anyone
- Complete history of every project stage

[1] iStock image credit: IkonStudio

GitHub repo

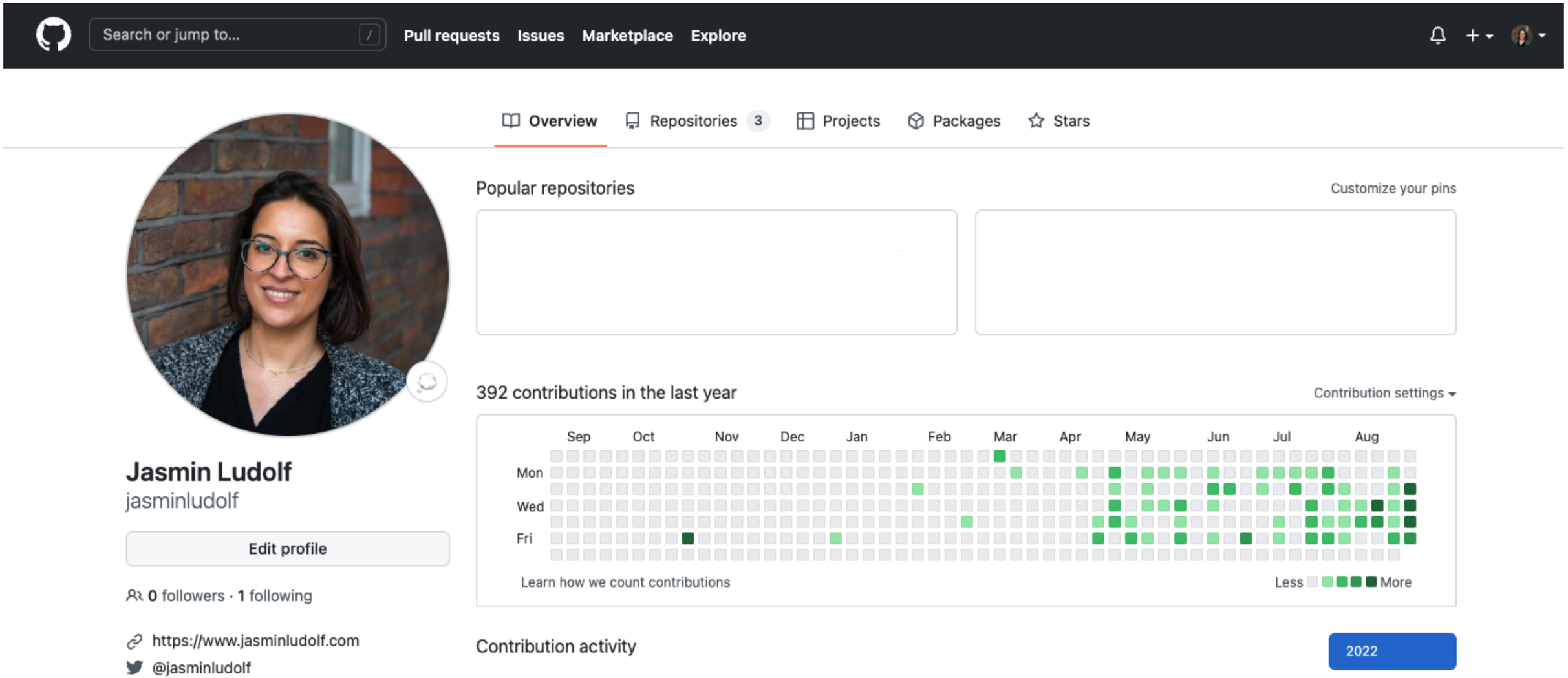






- Repo will contain all files of a project and record past versions of files

GitHub website



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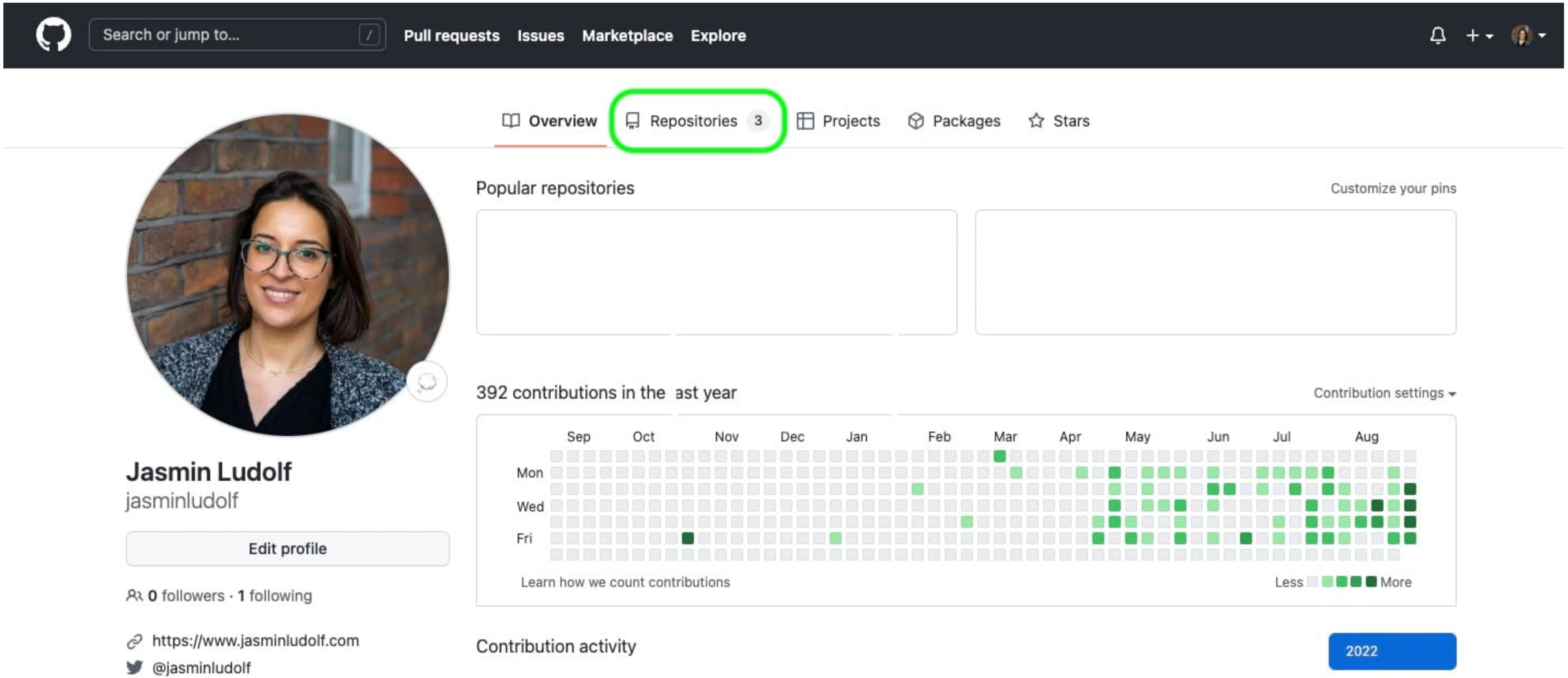


Let's practice!

INTRODUCTION TO GITHUB CONCEPTS

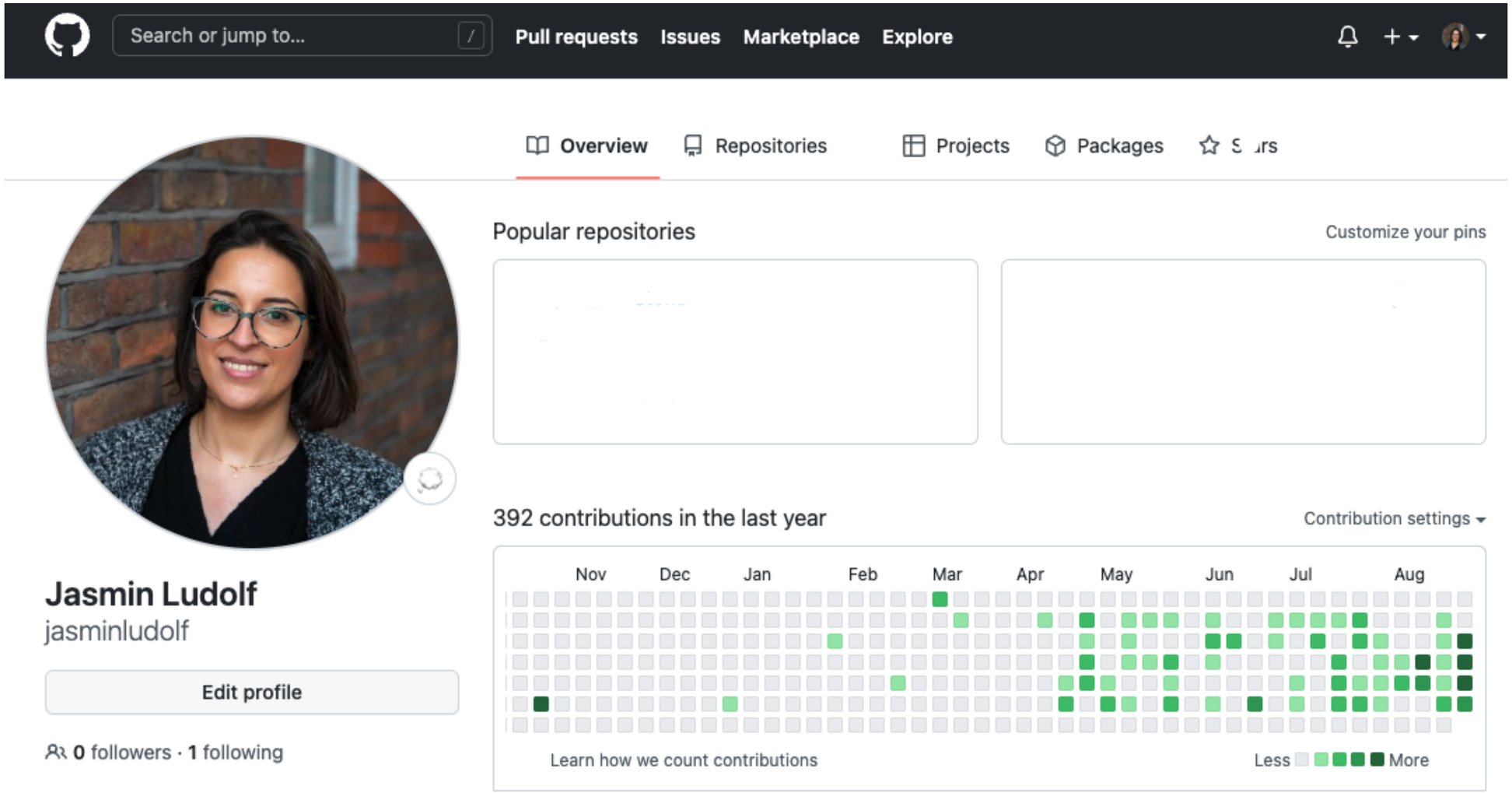
Setting up a repo

INTRODUCTION TO GITHUB CONCEPTS

Jasmin Ludolf
Content Developer, DataCamp

datacamp

Create a new repository



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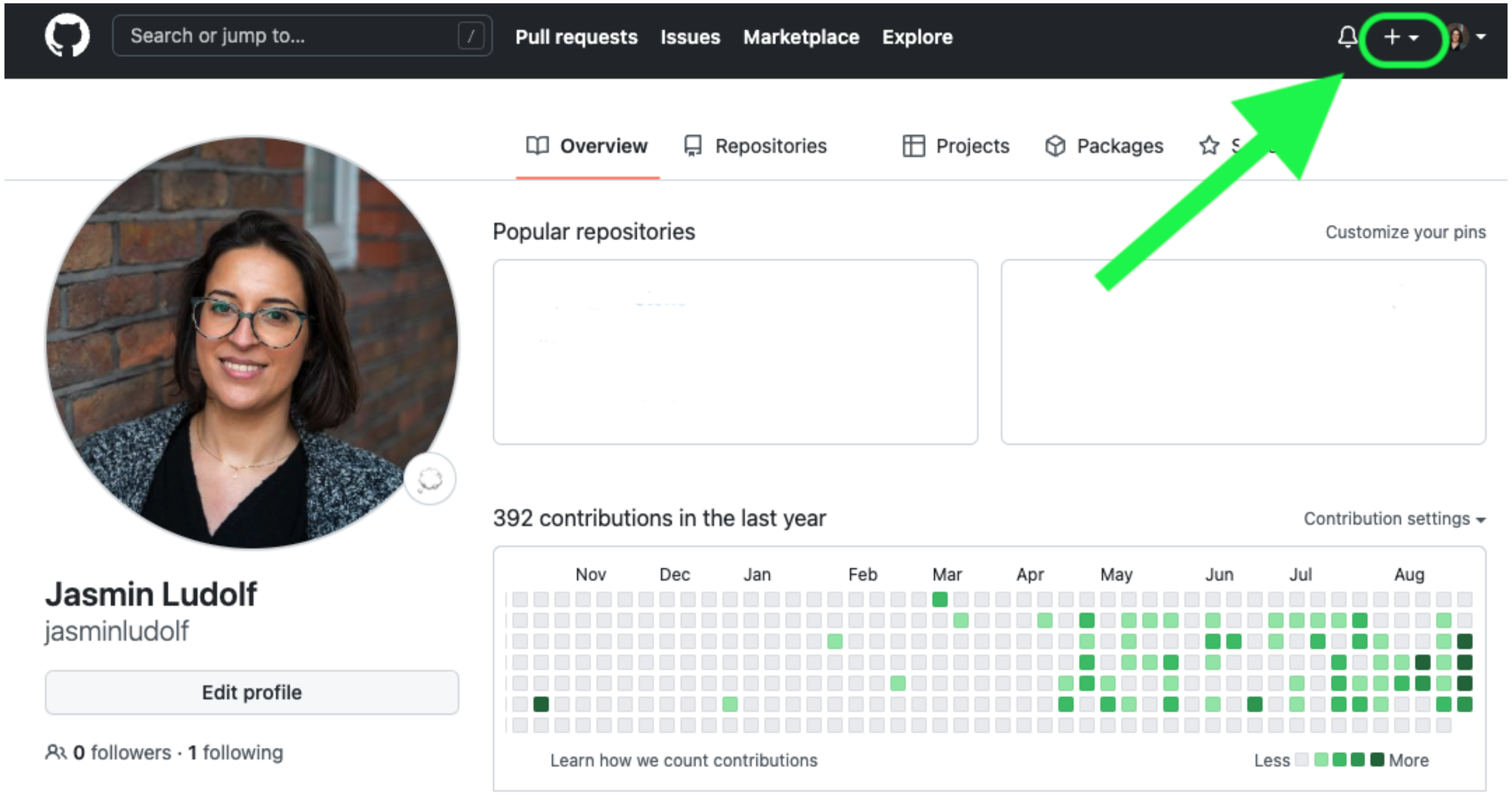

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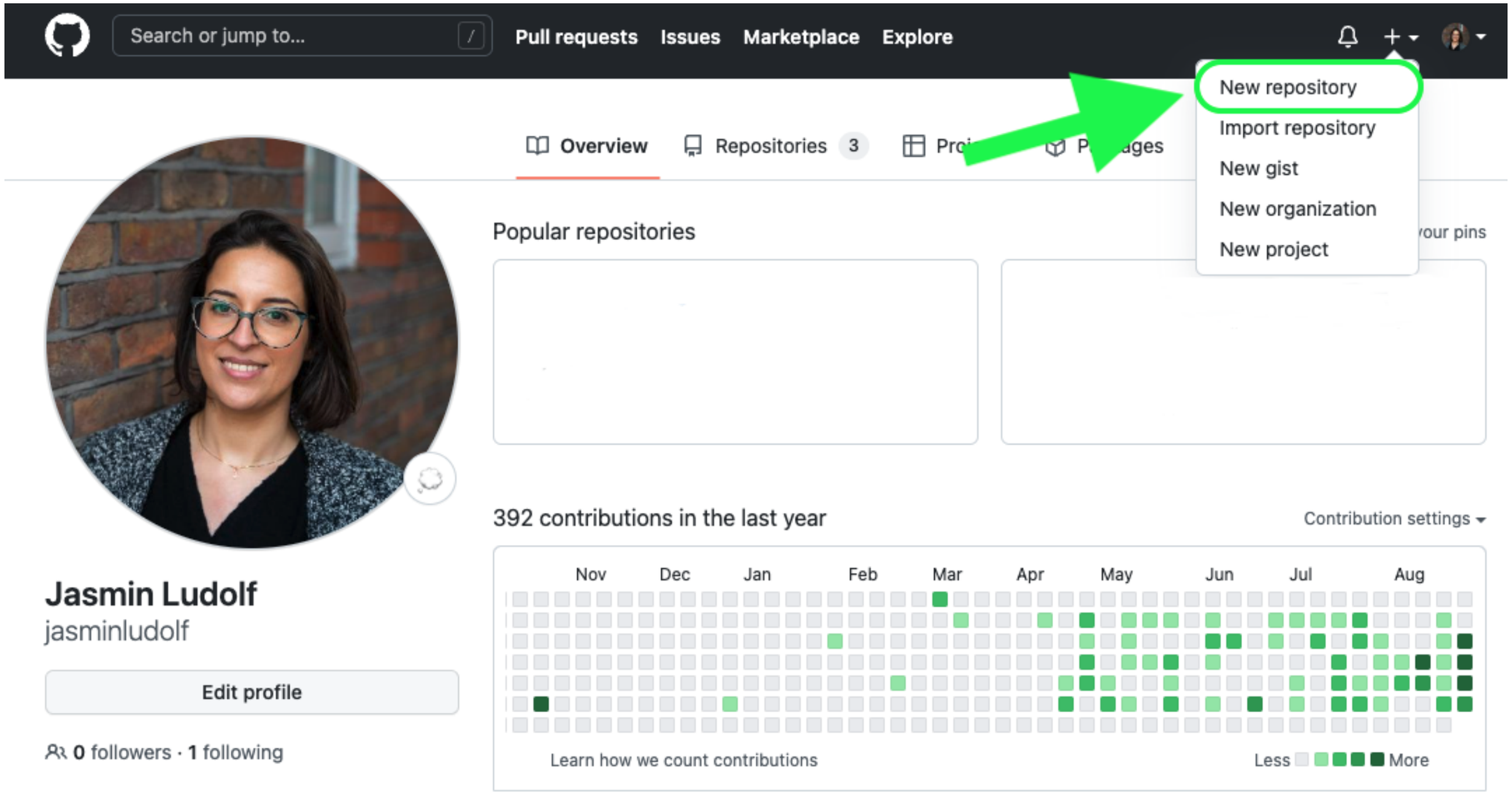

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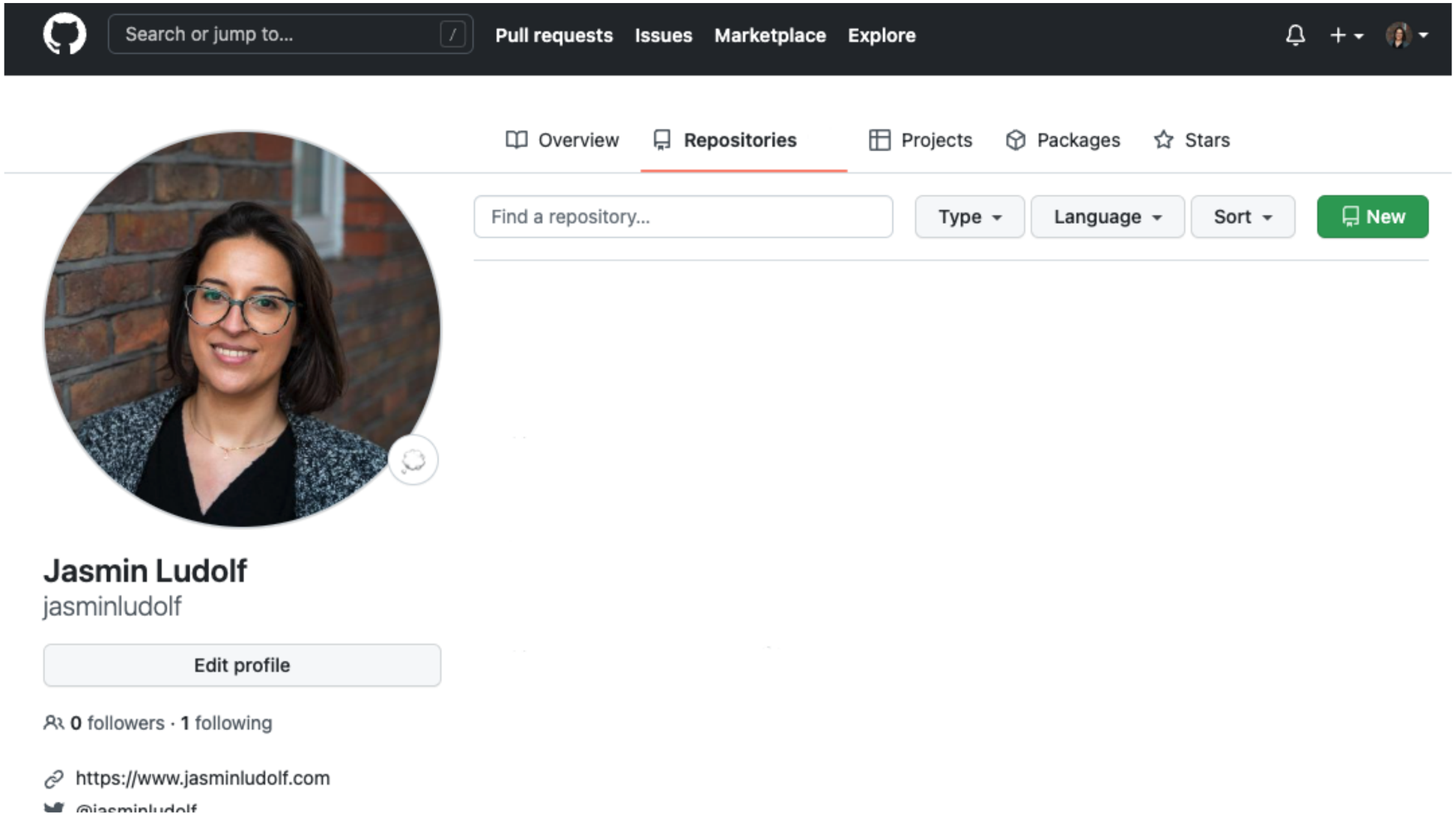

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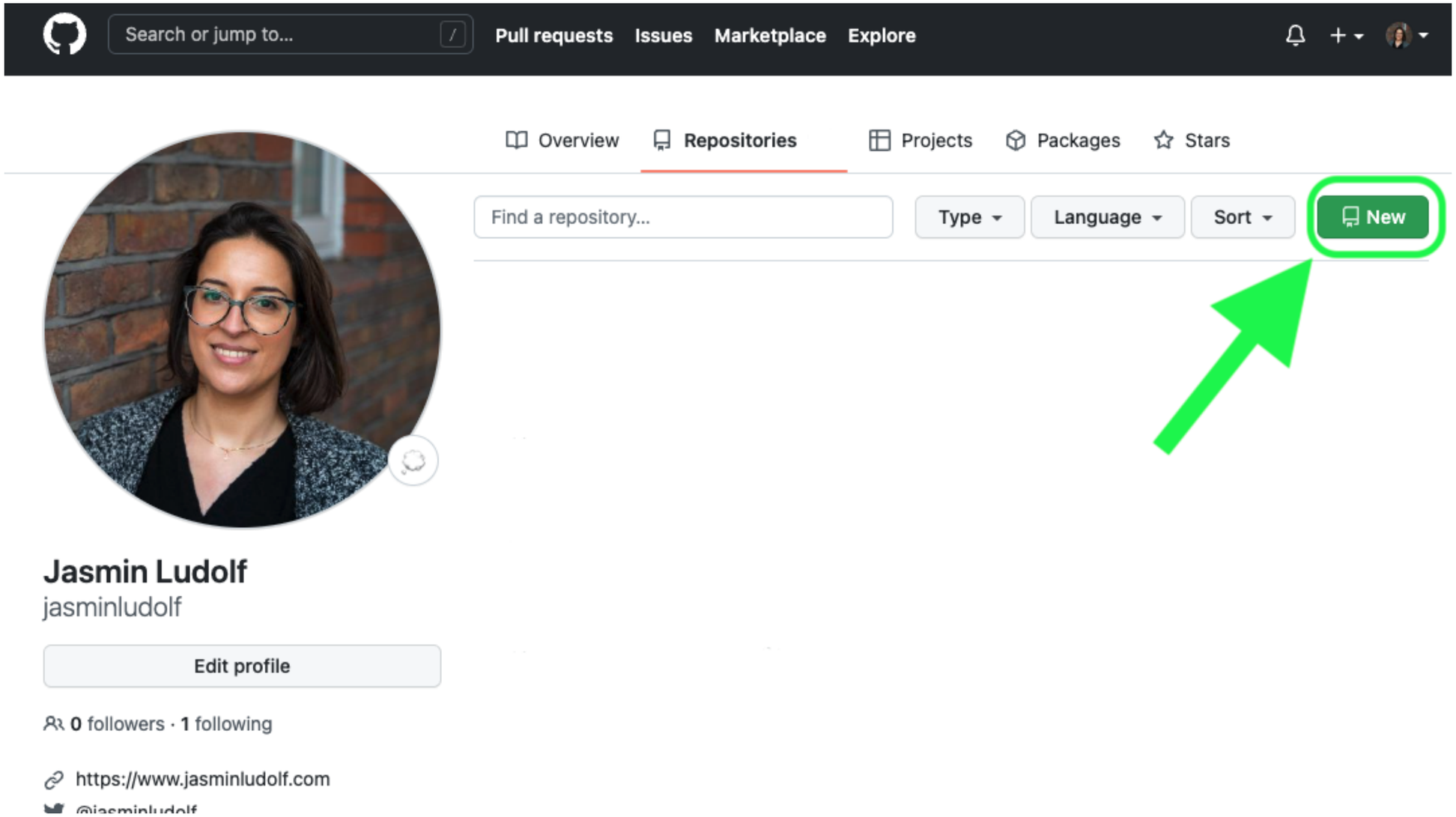

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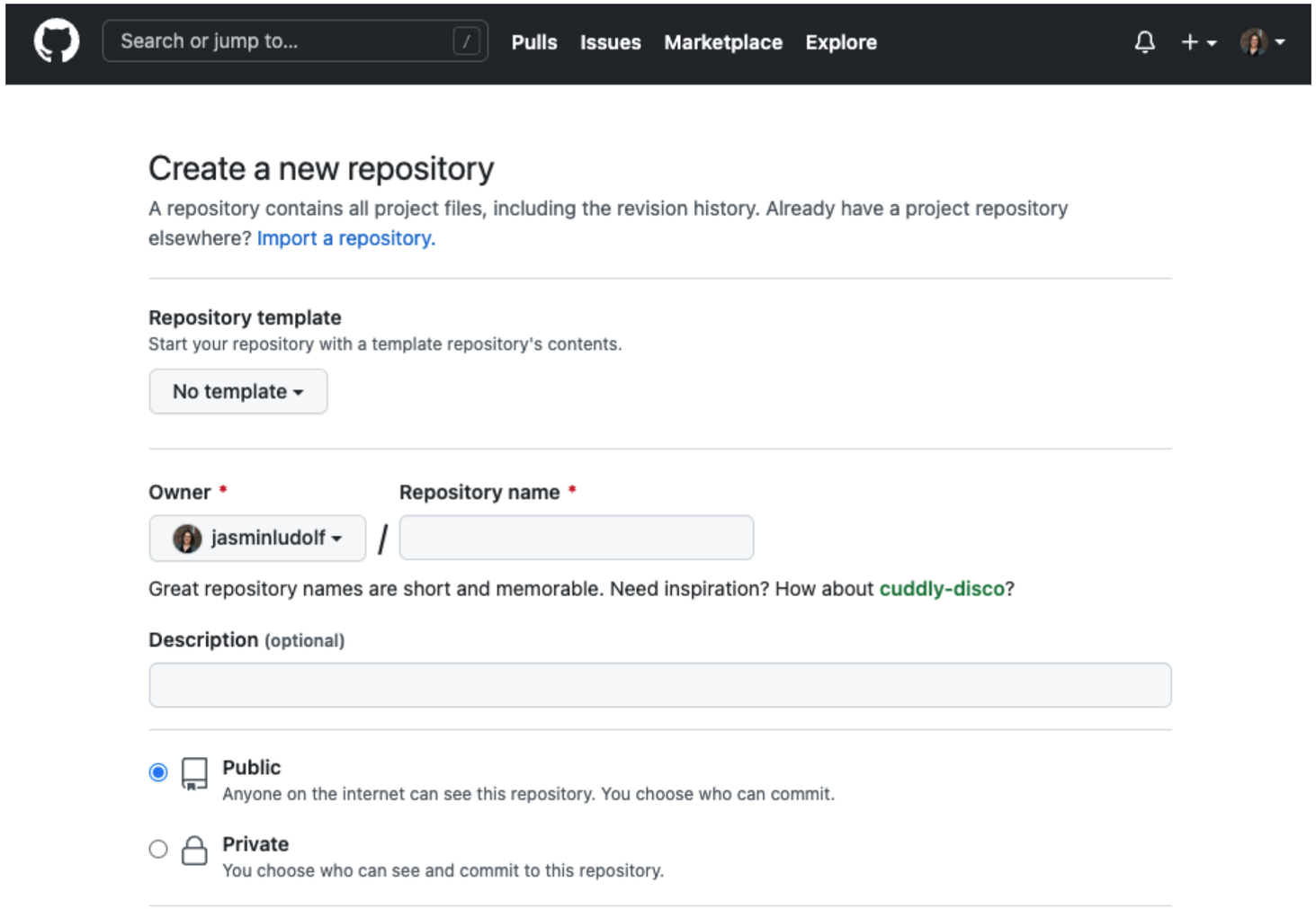

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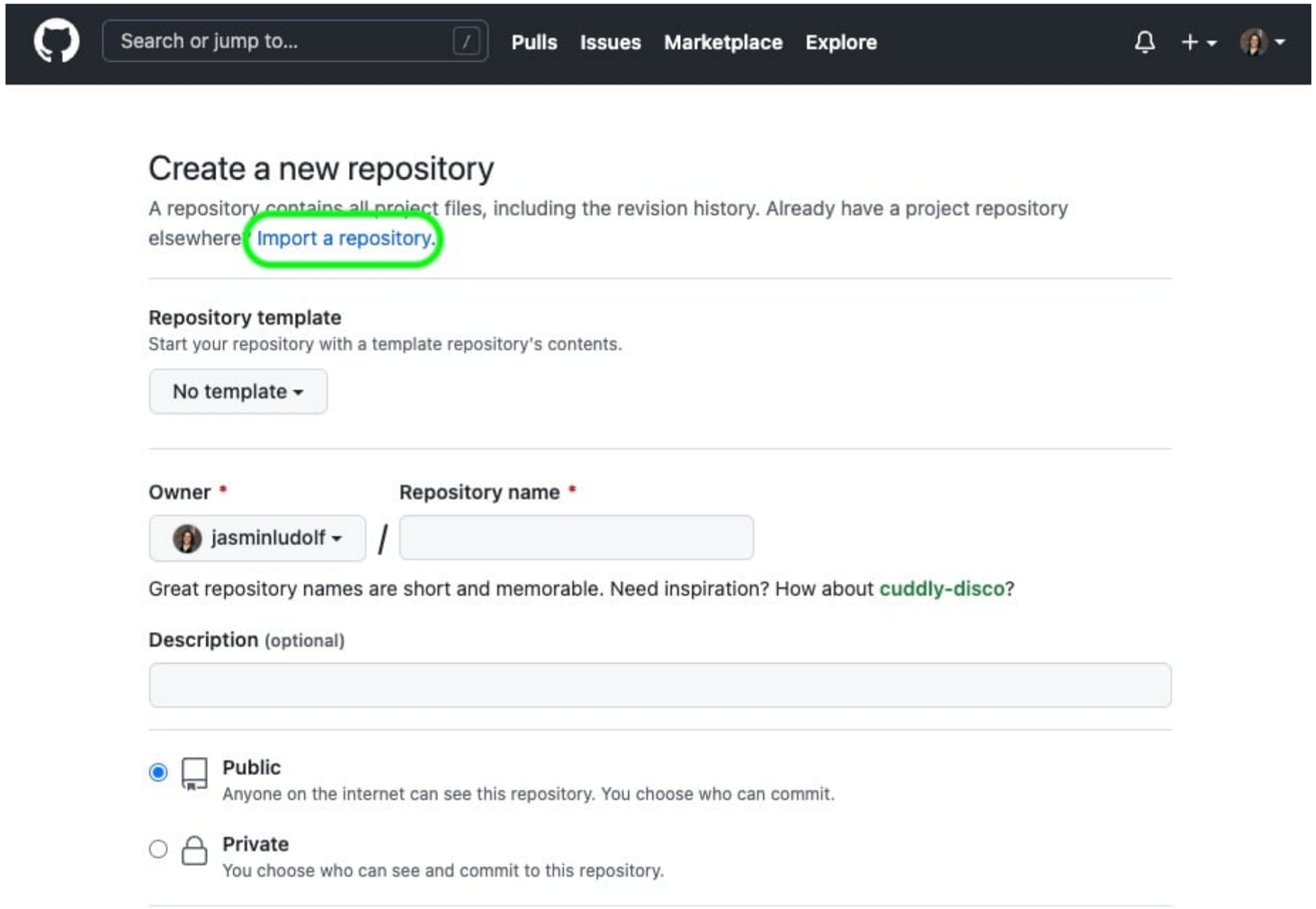

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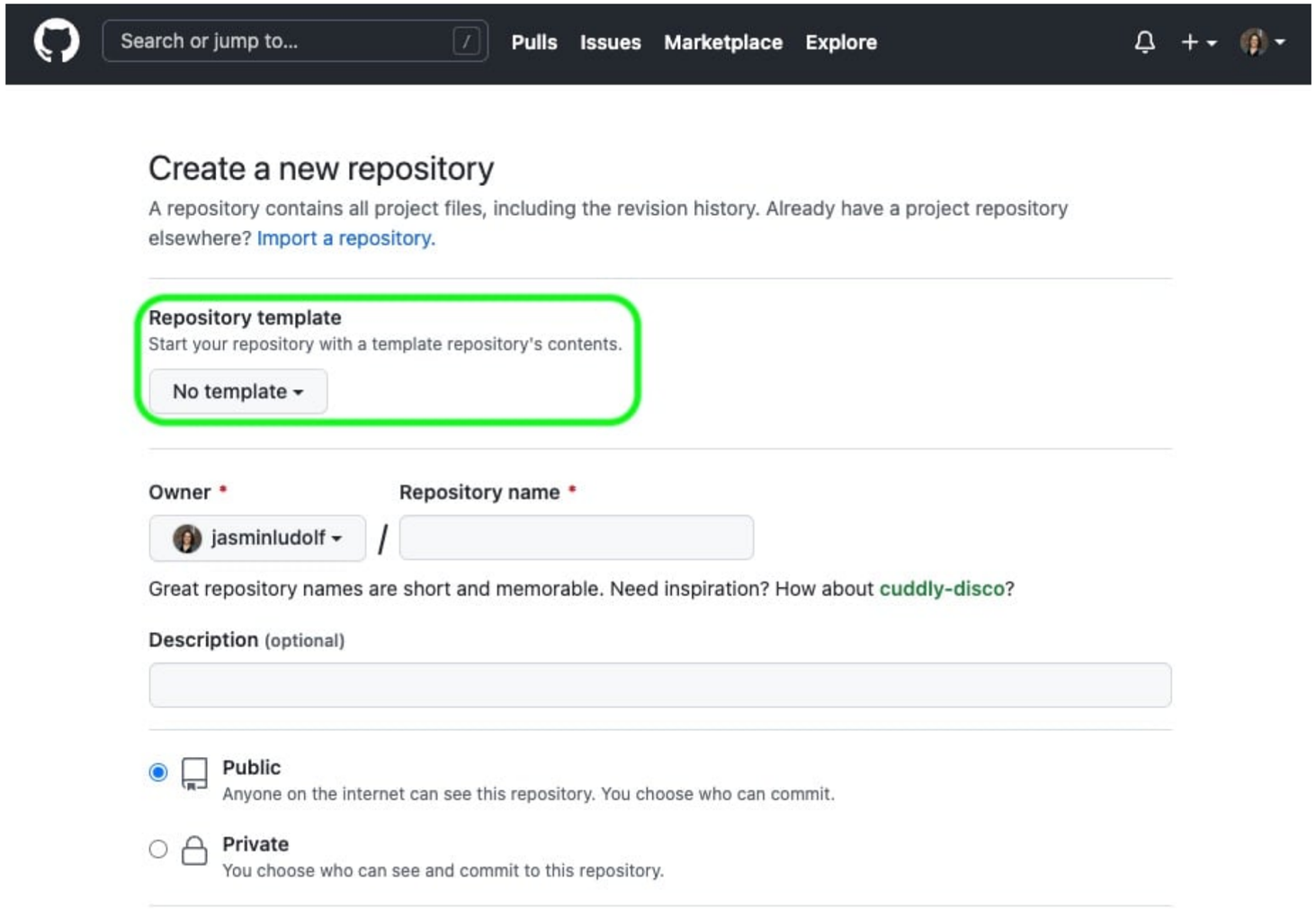

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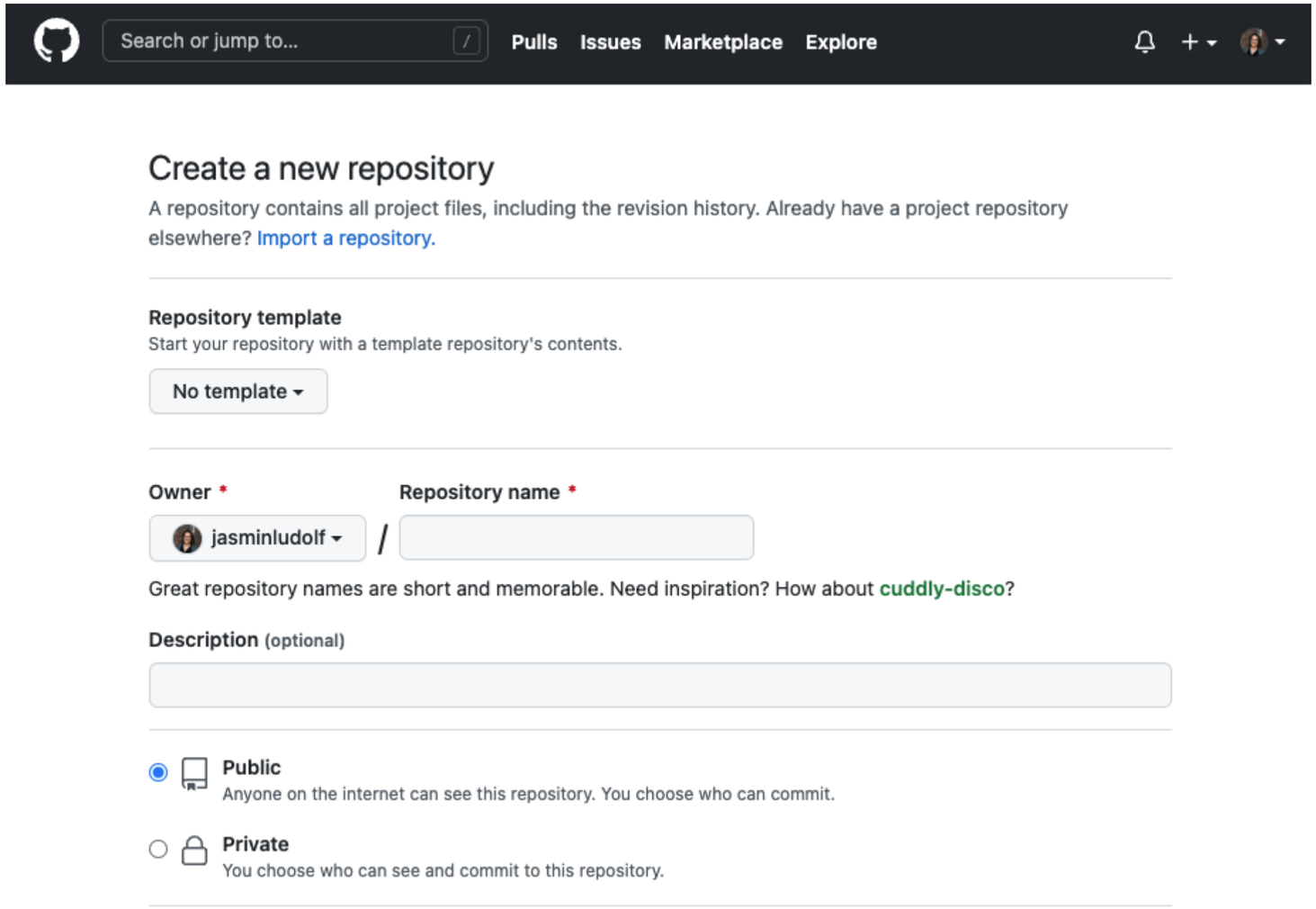

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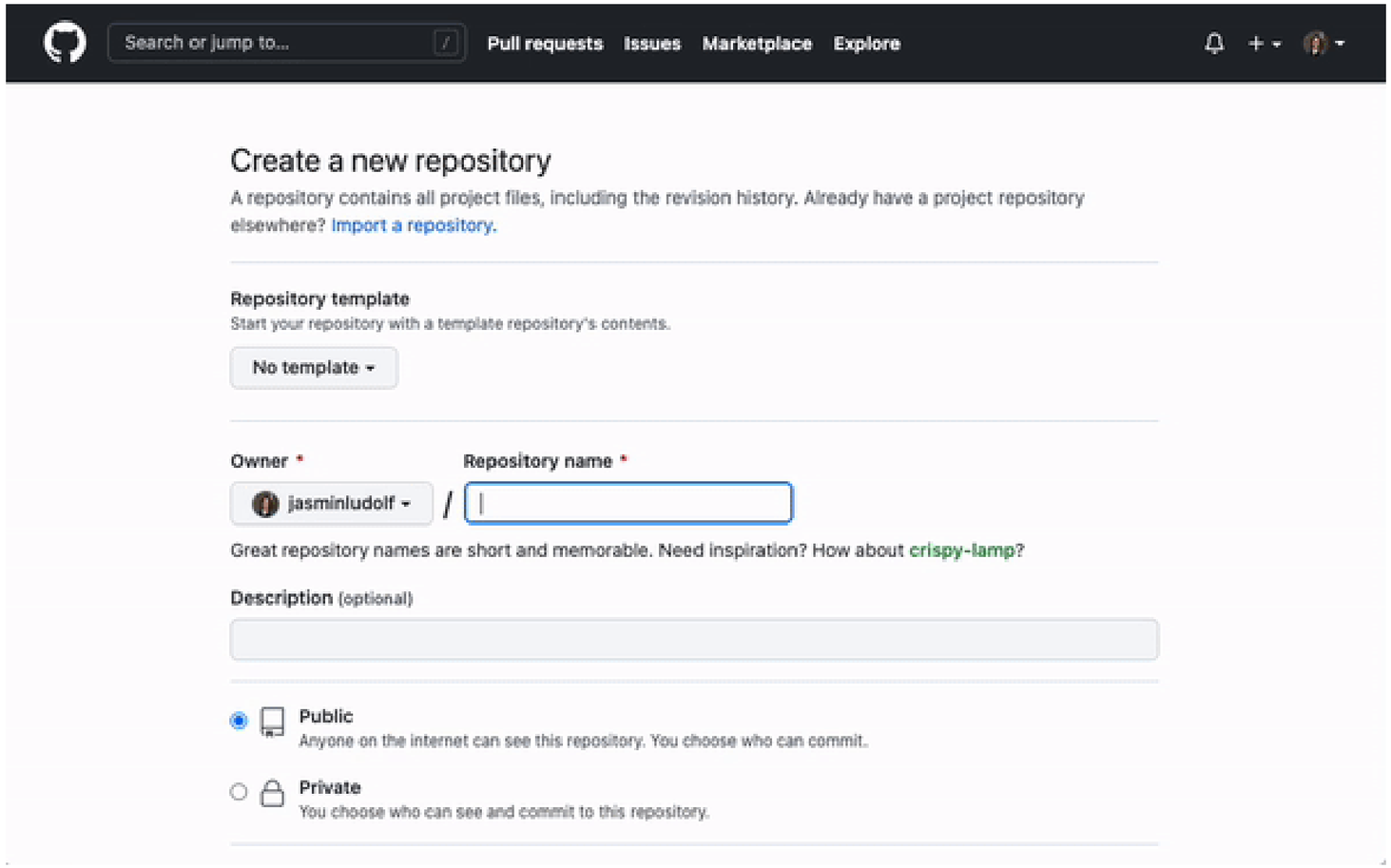
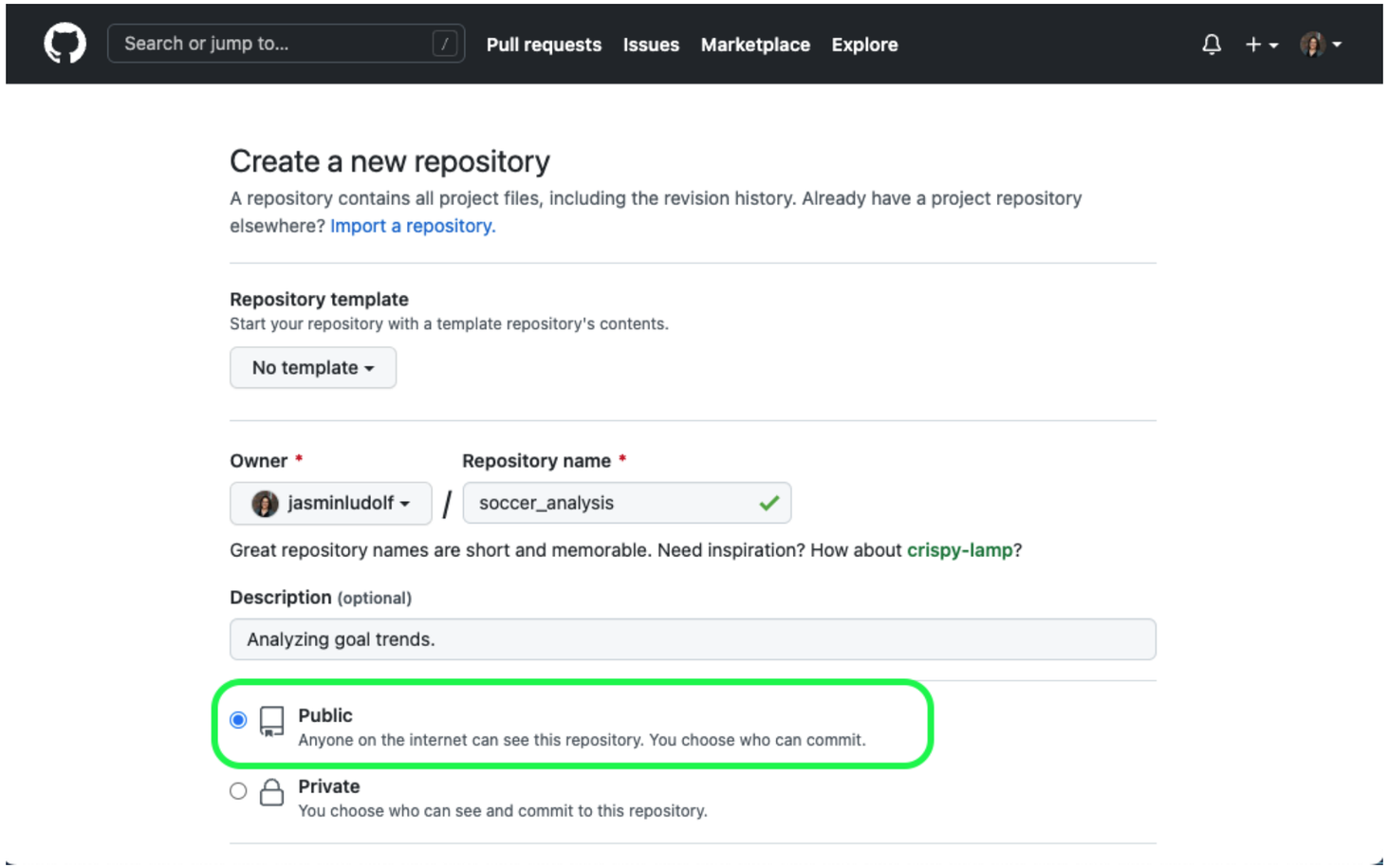
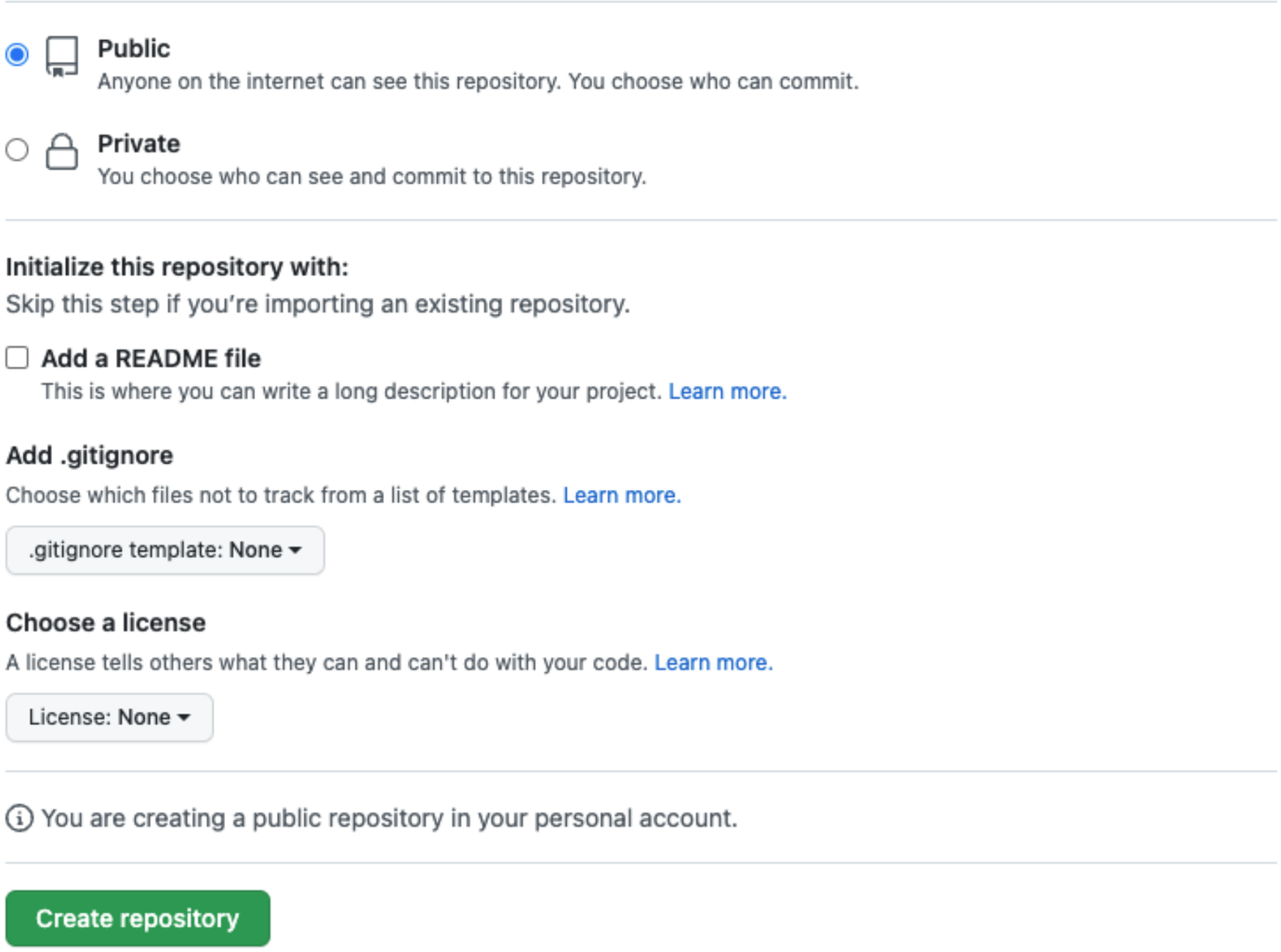


Public repository



Repository files



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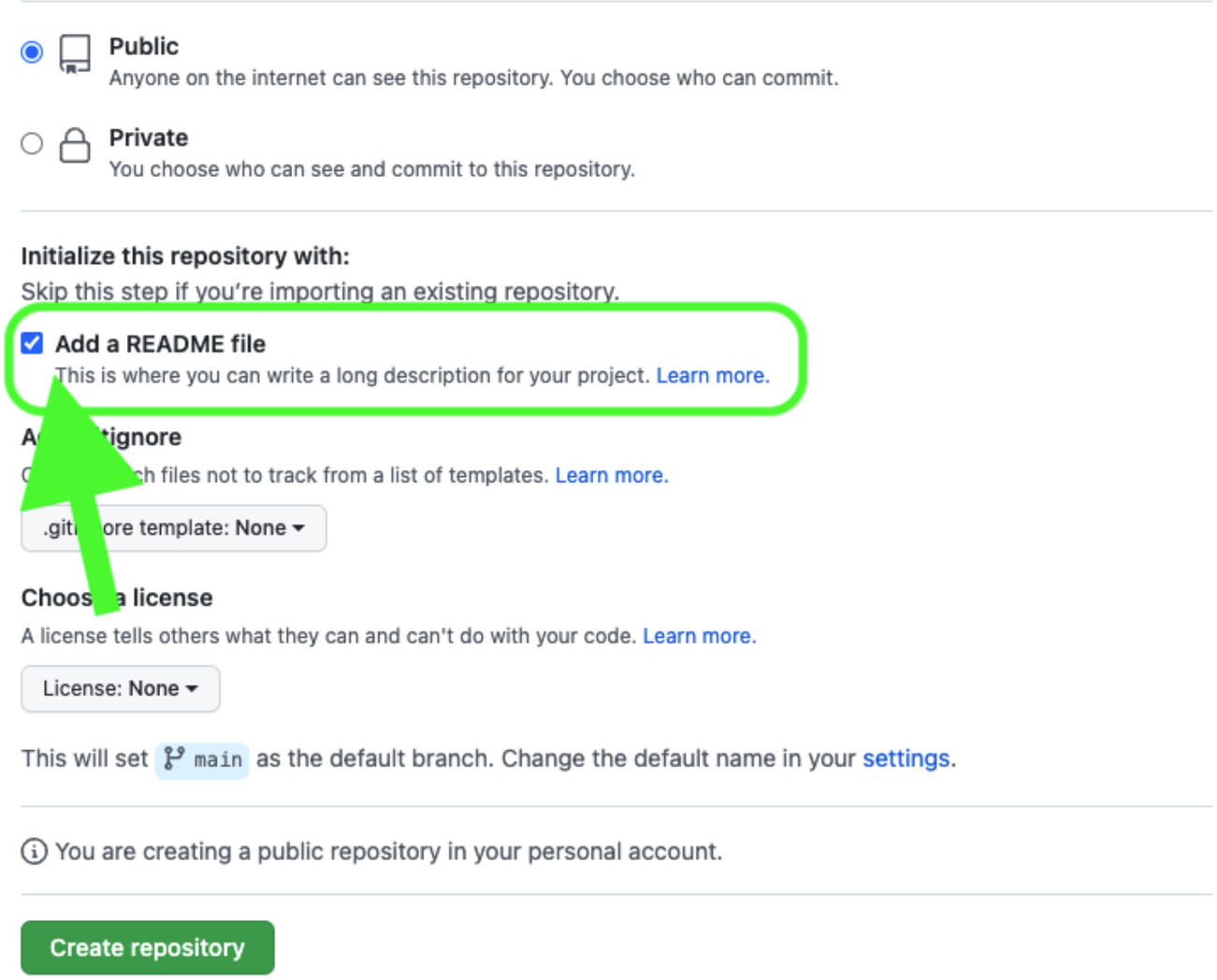

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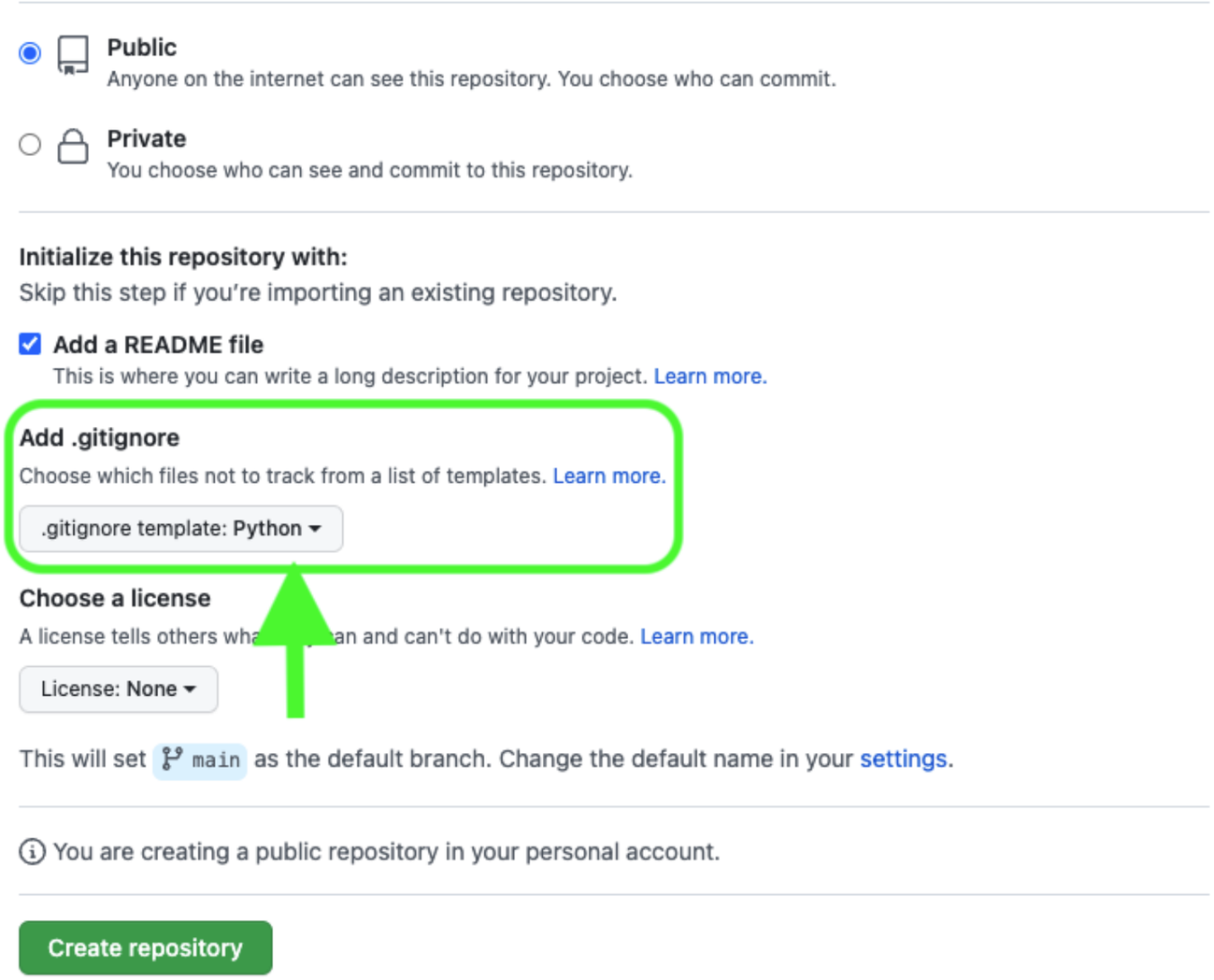

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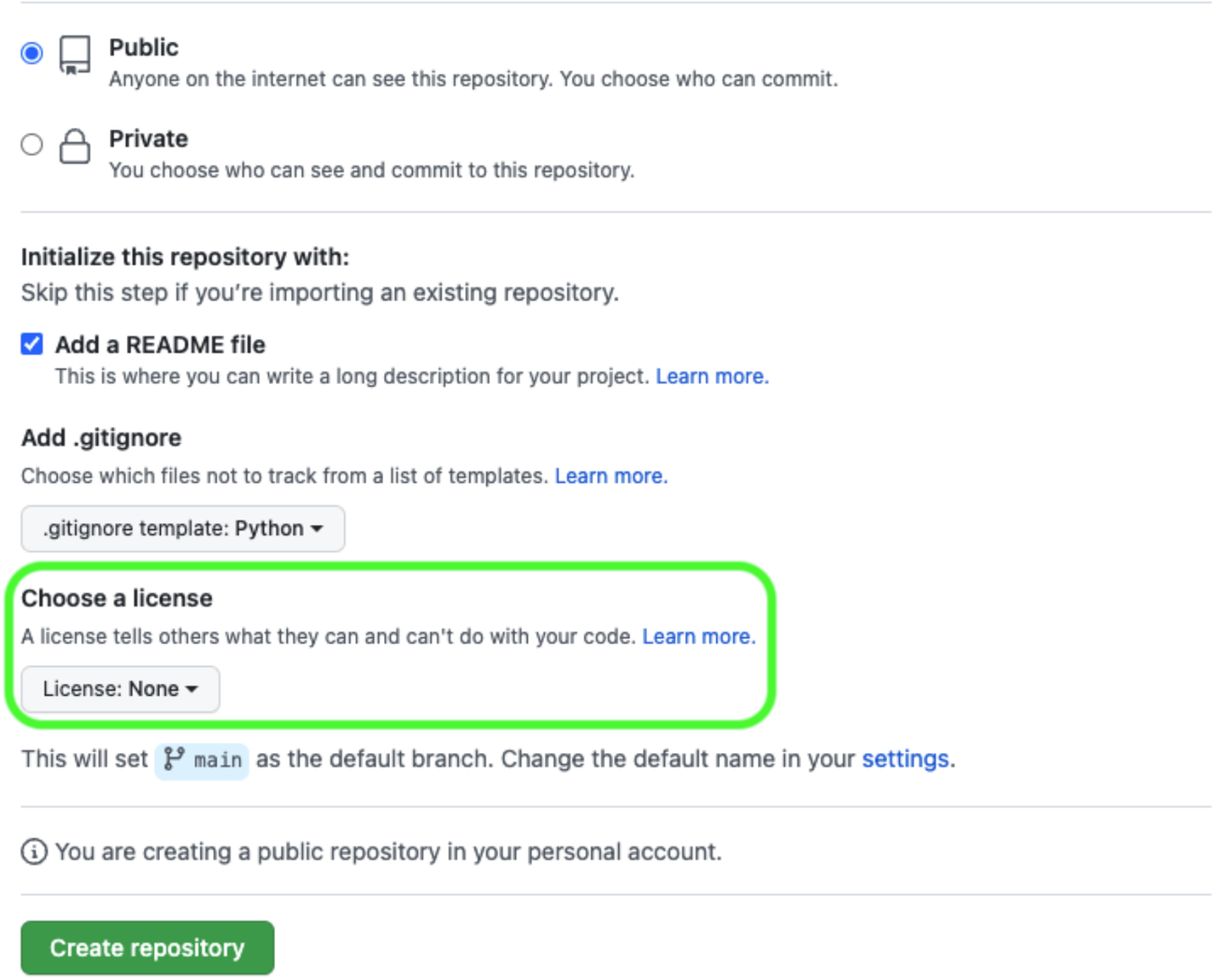

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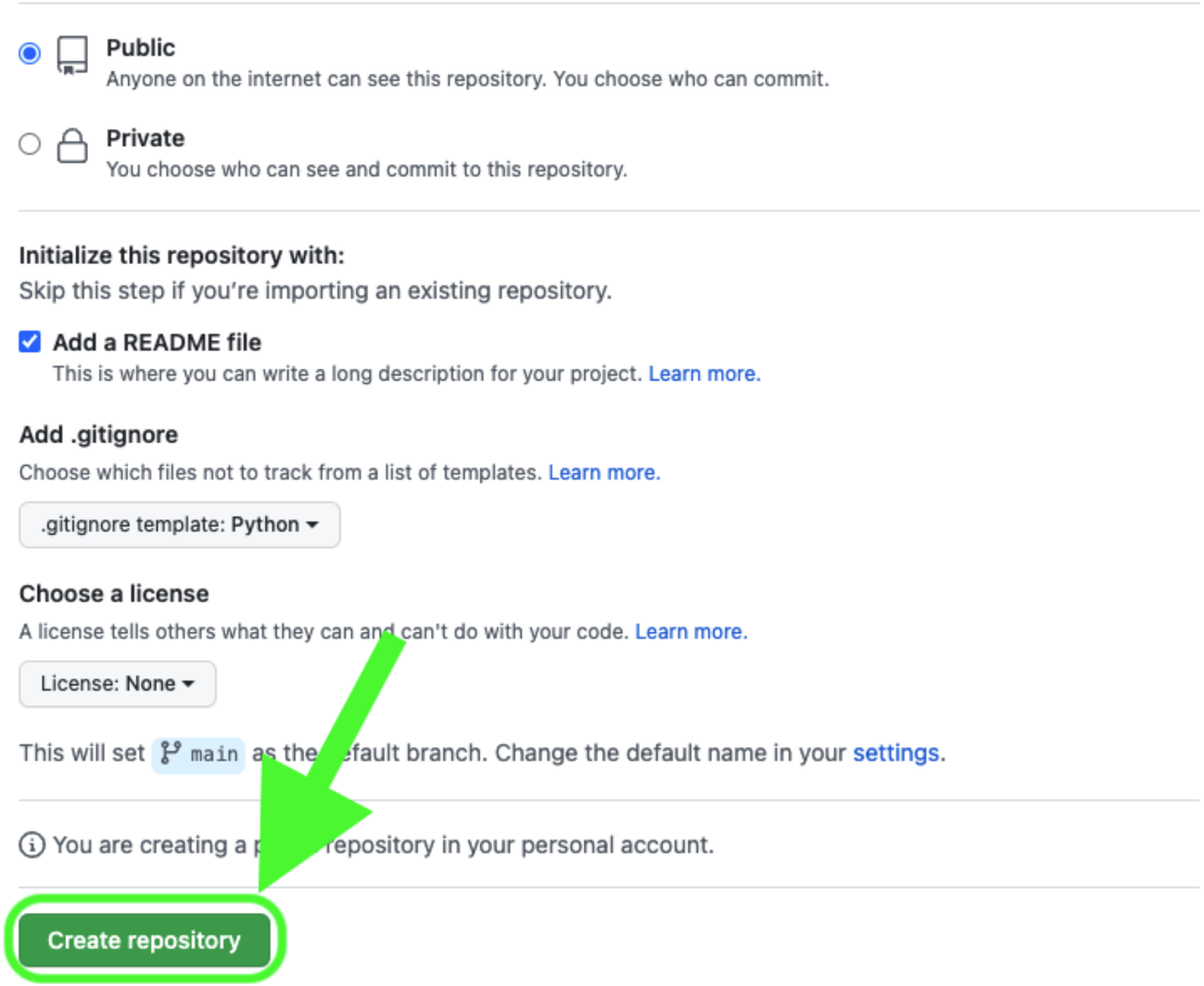
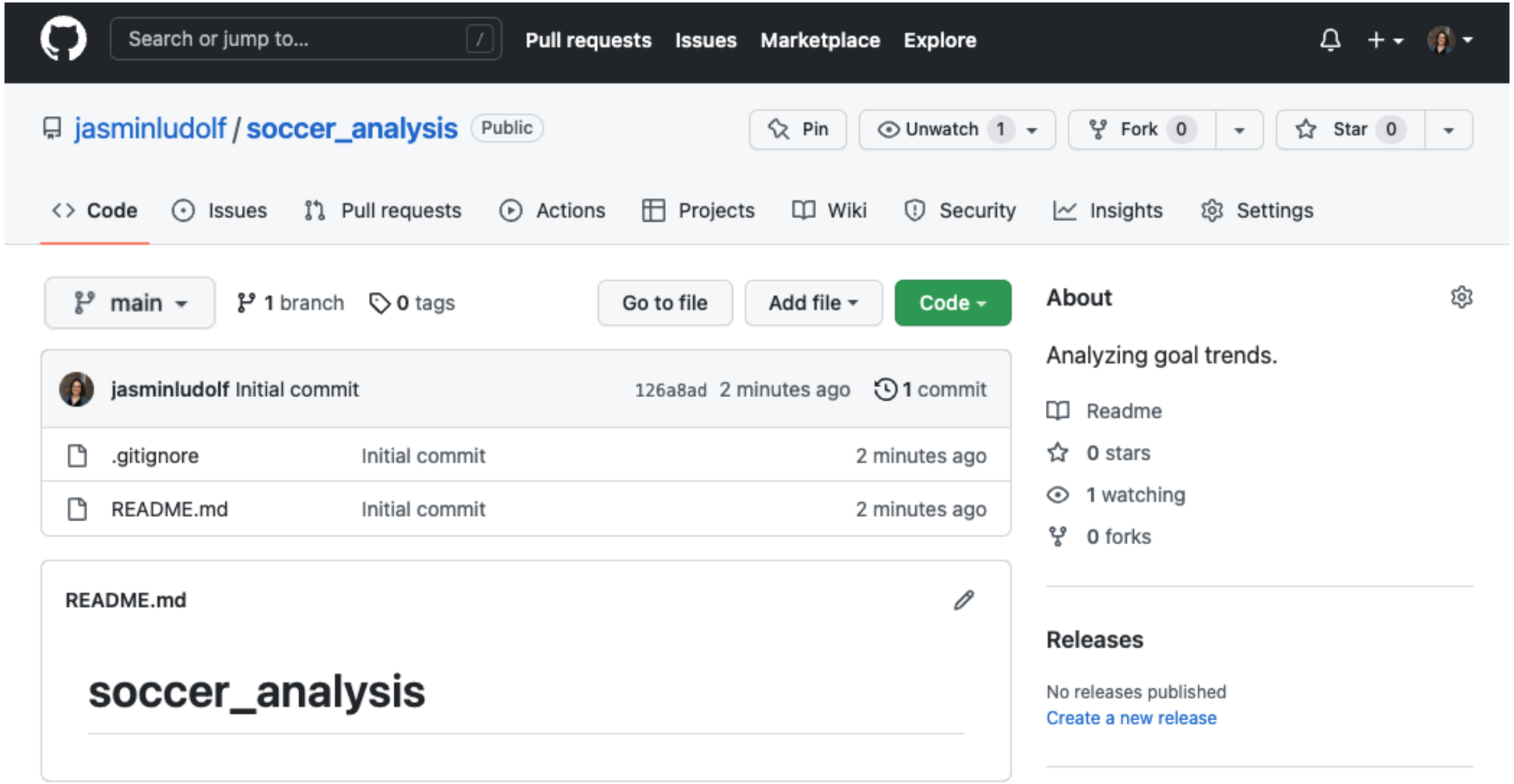


Navigating a repo



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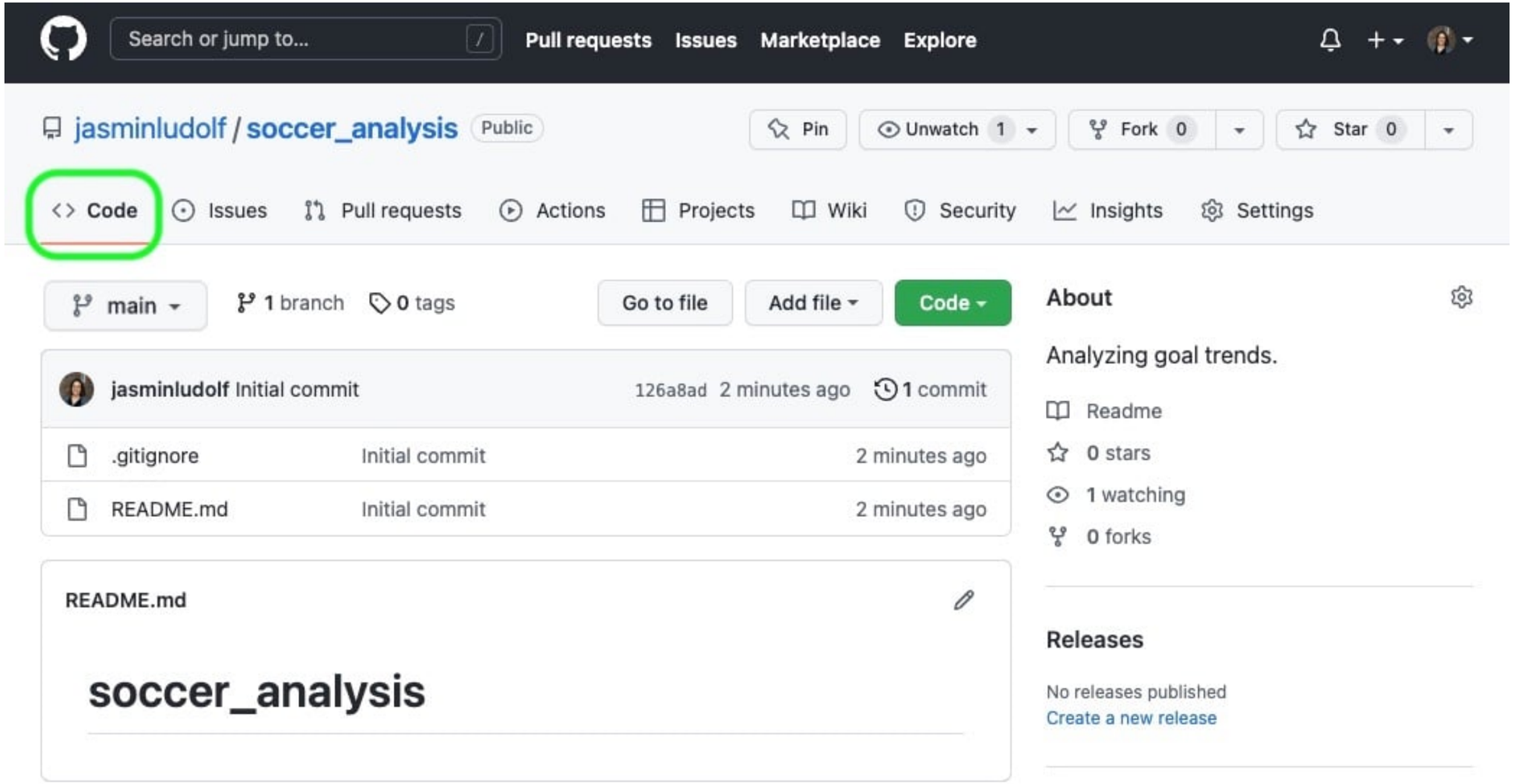

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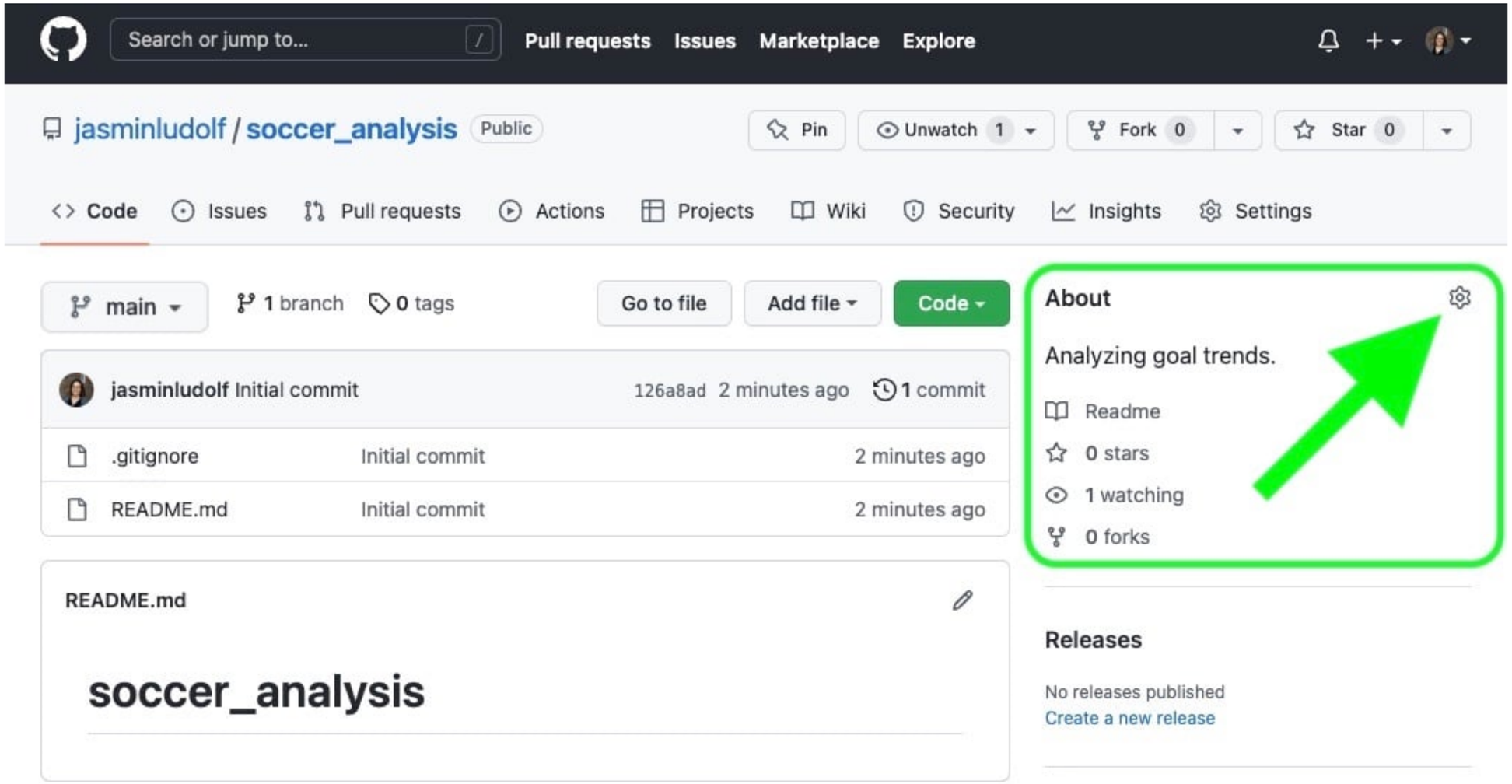

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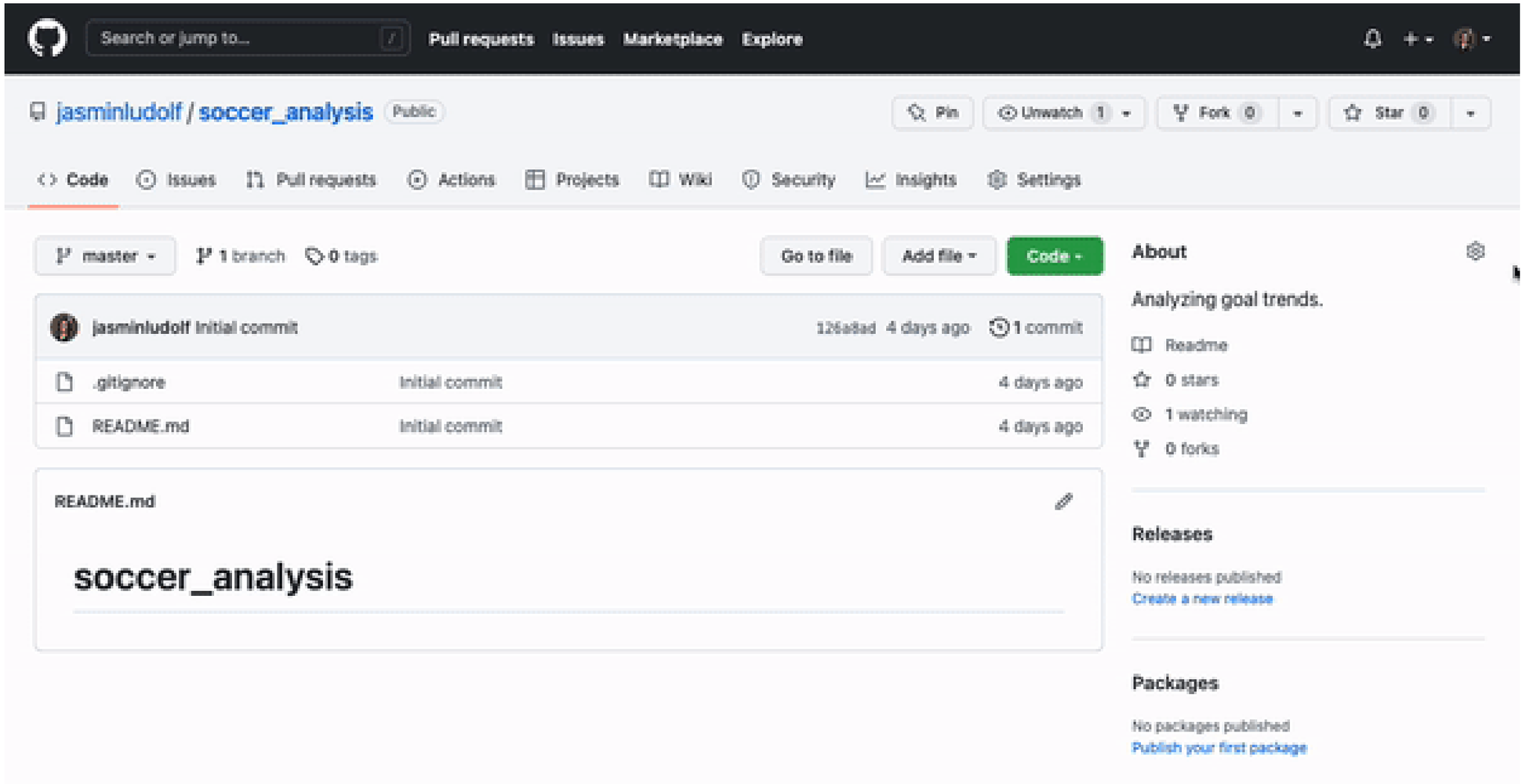

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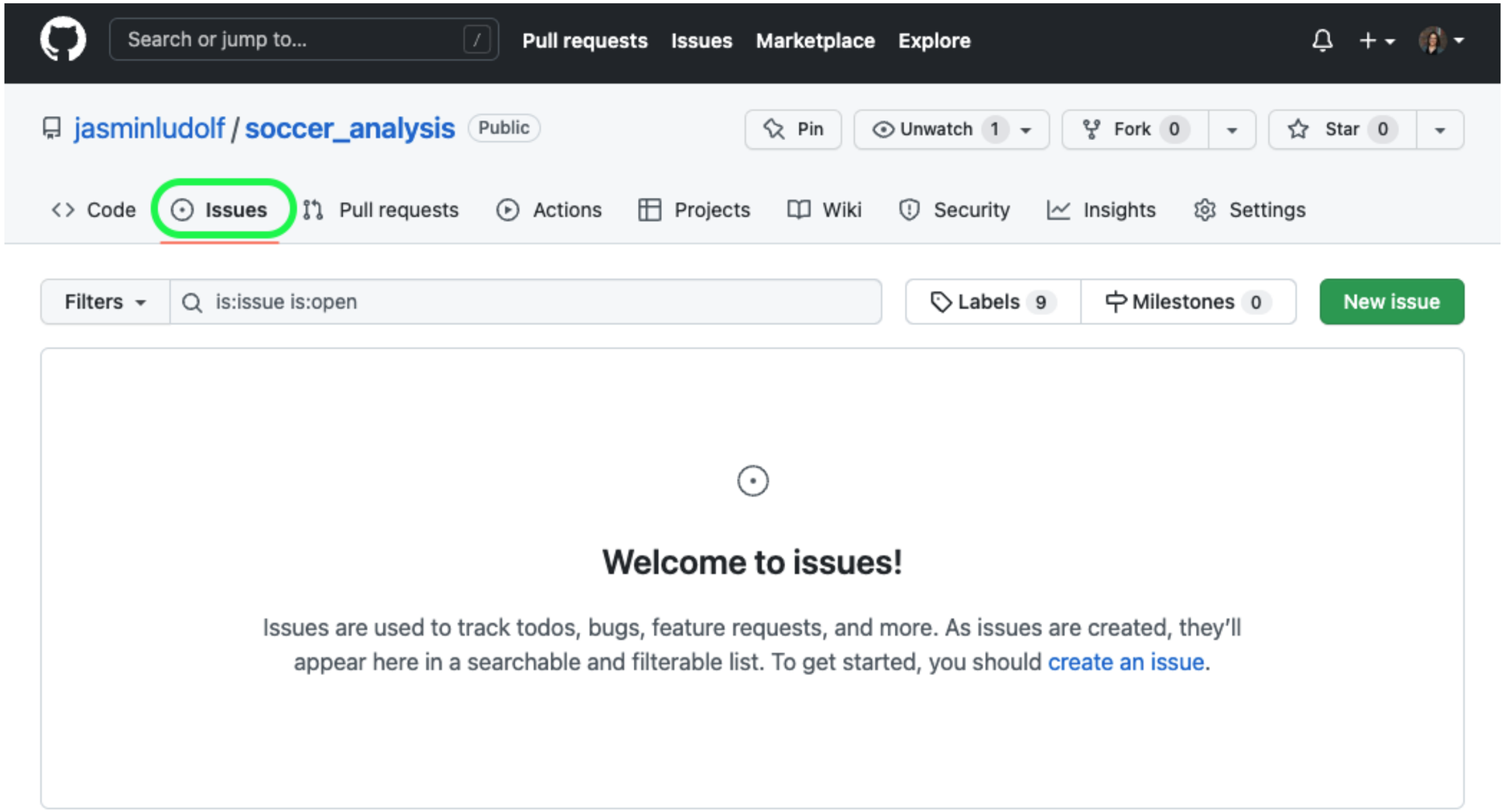

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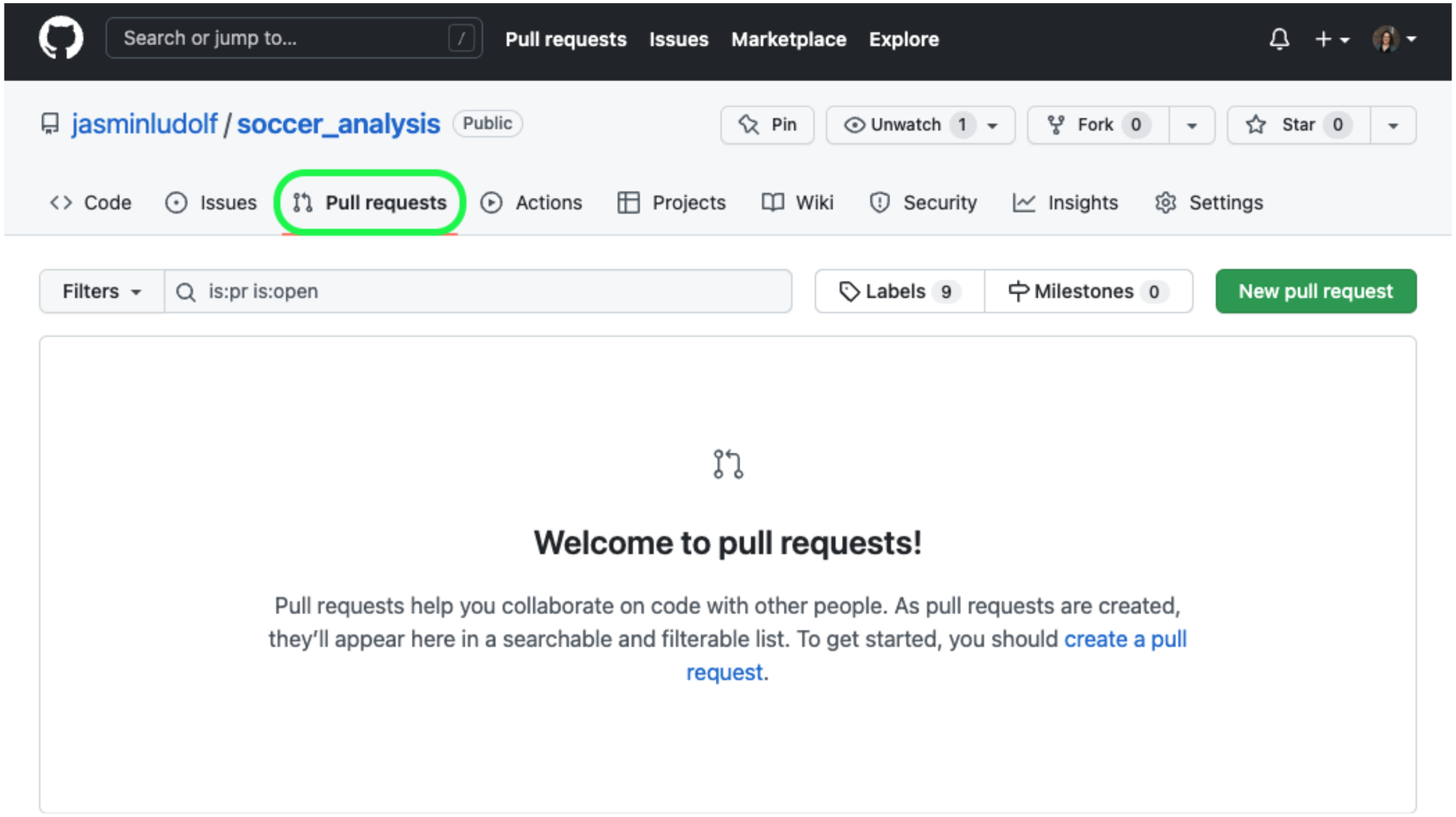

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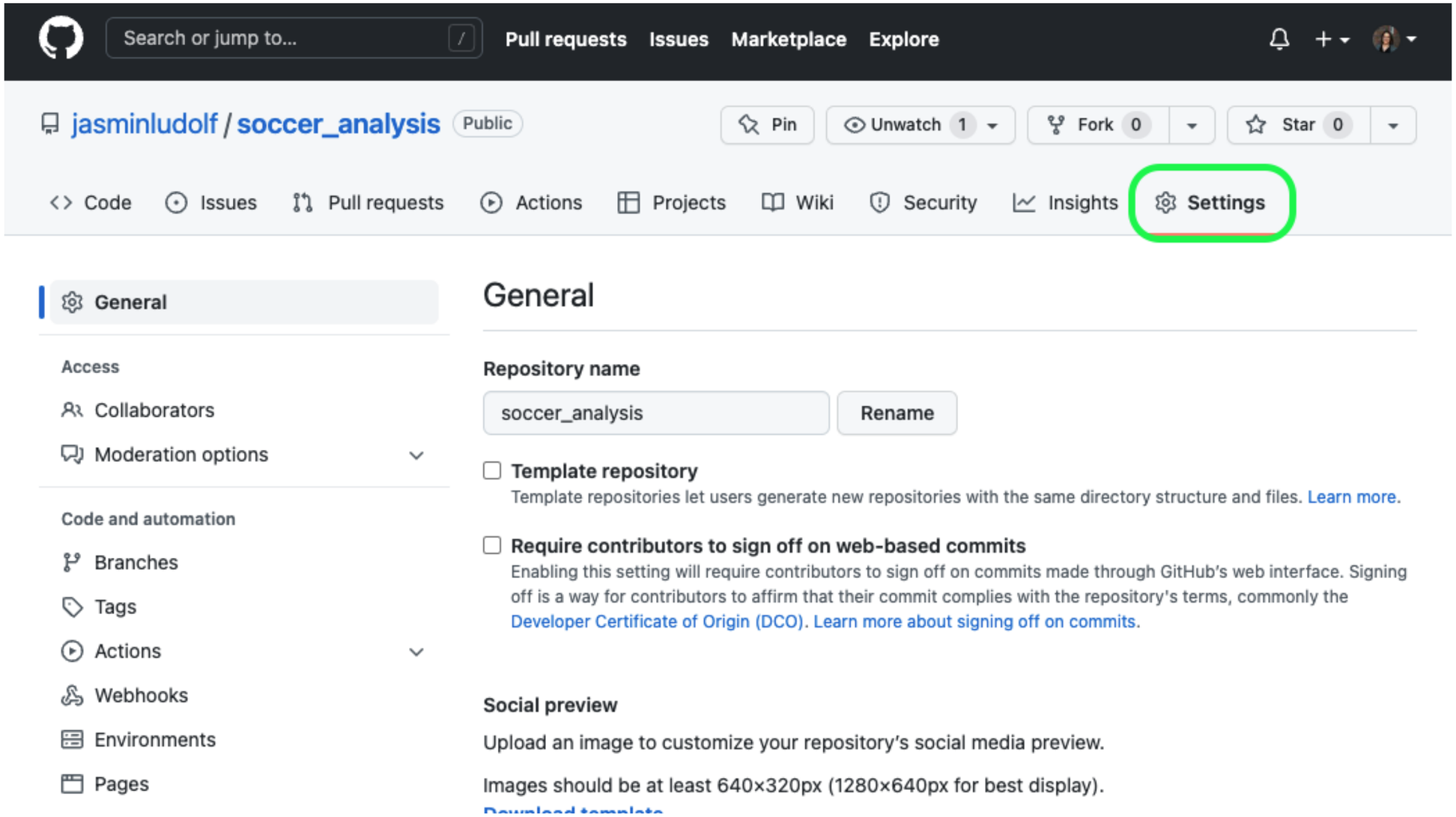

Let's practice!

INTRODUCTION TO GITHUB CONCEPTS

Creating a README

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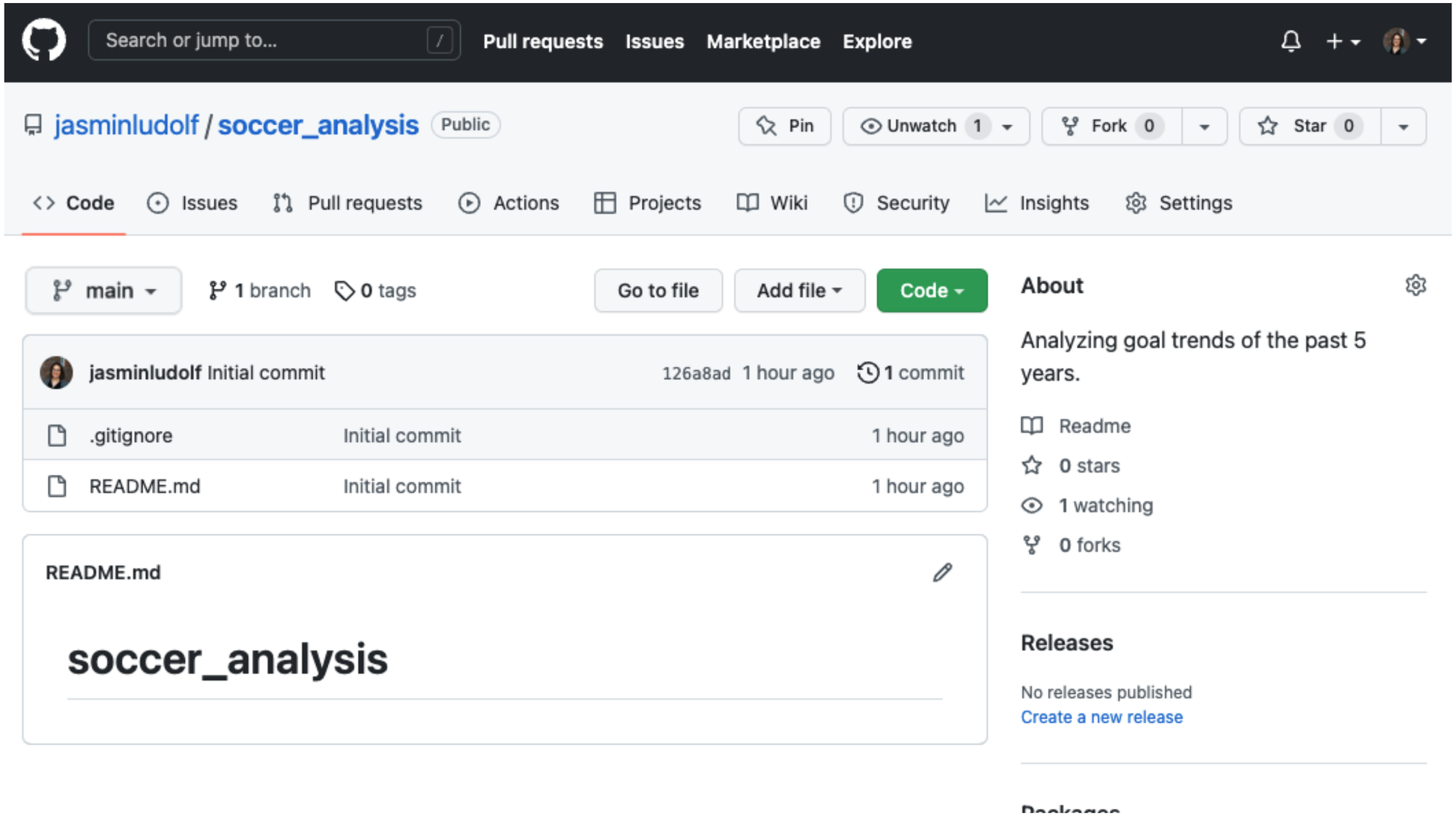
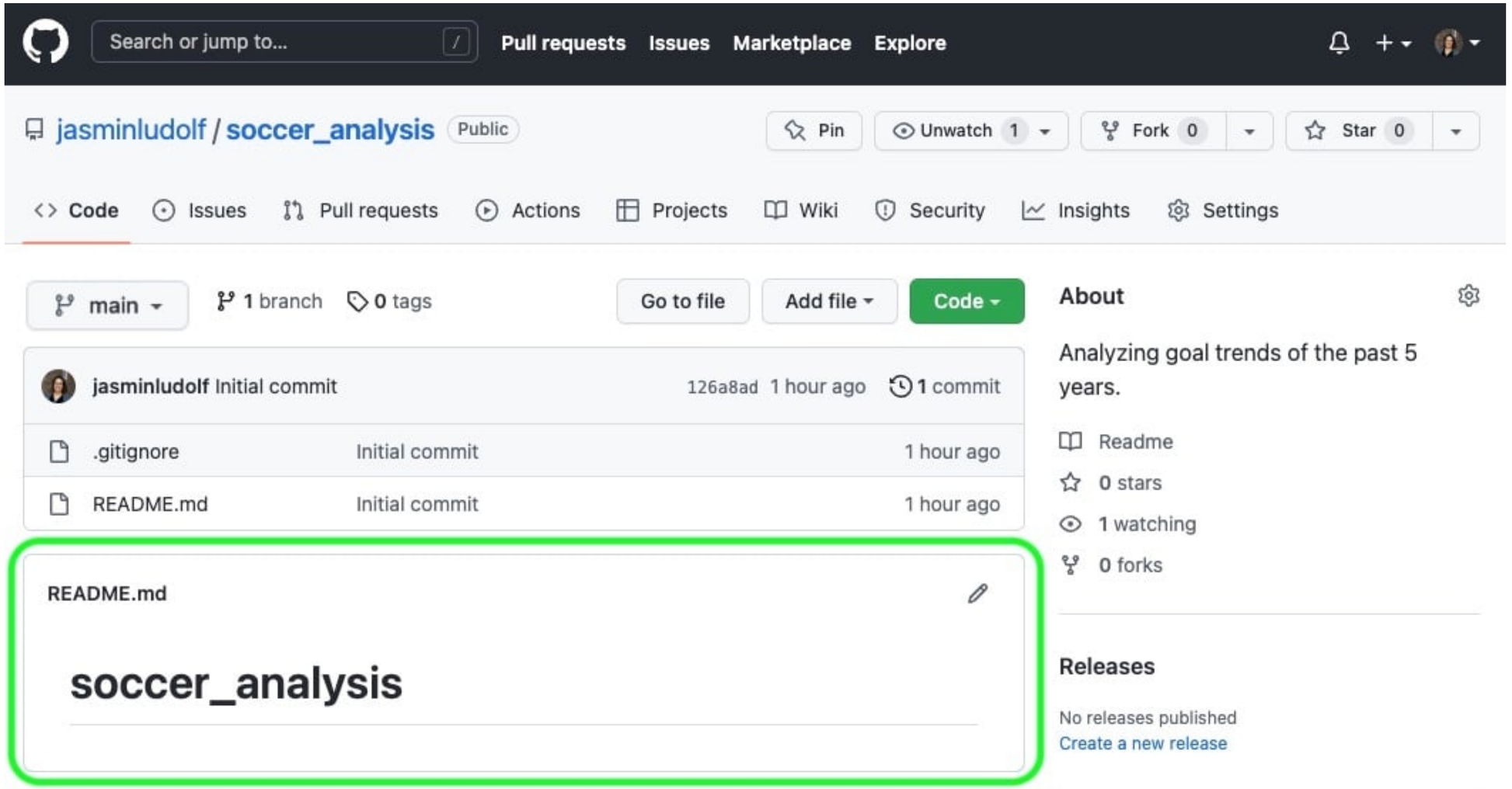
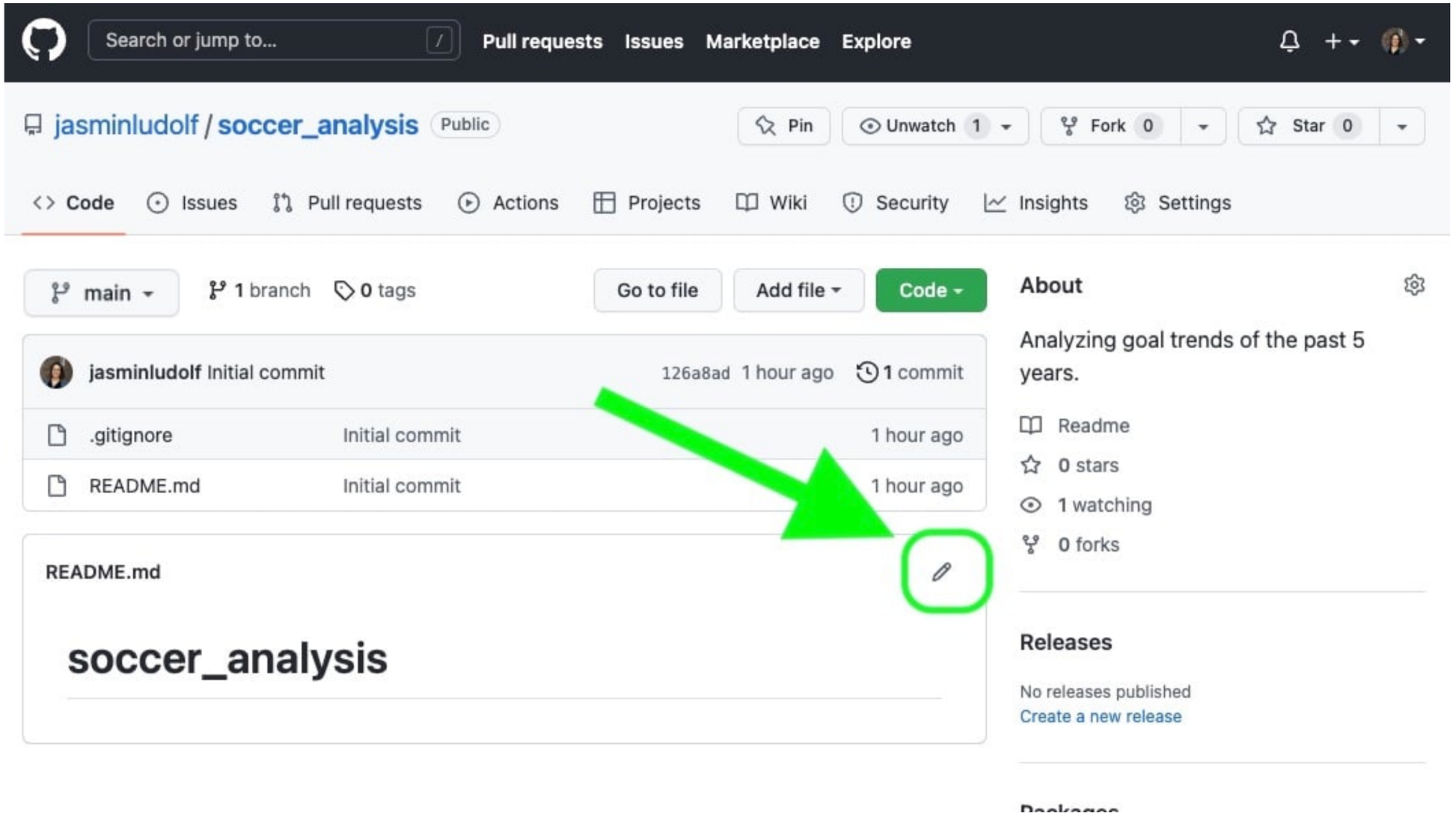
Edit the README



Edit the README



Edit the README



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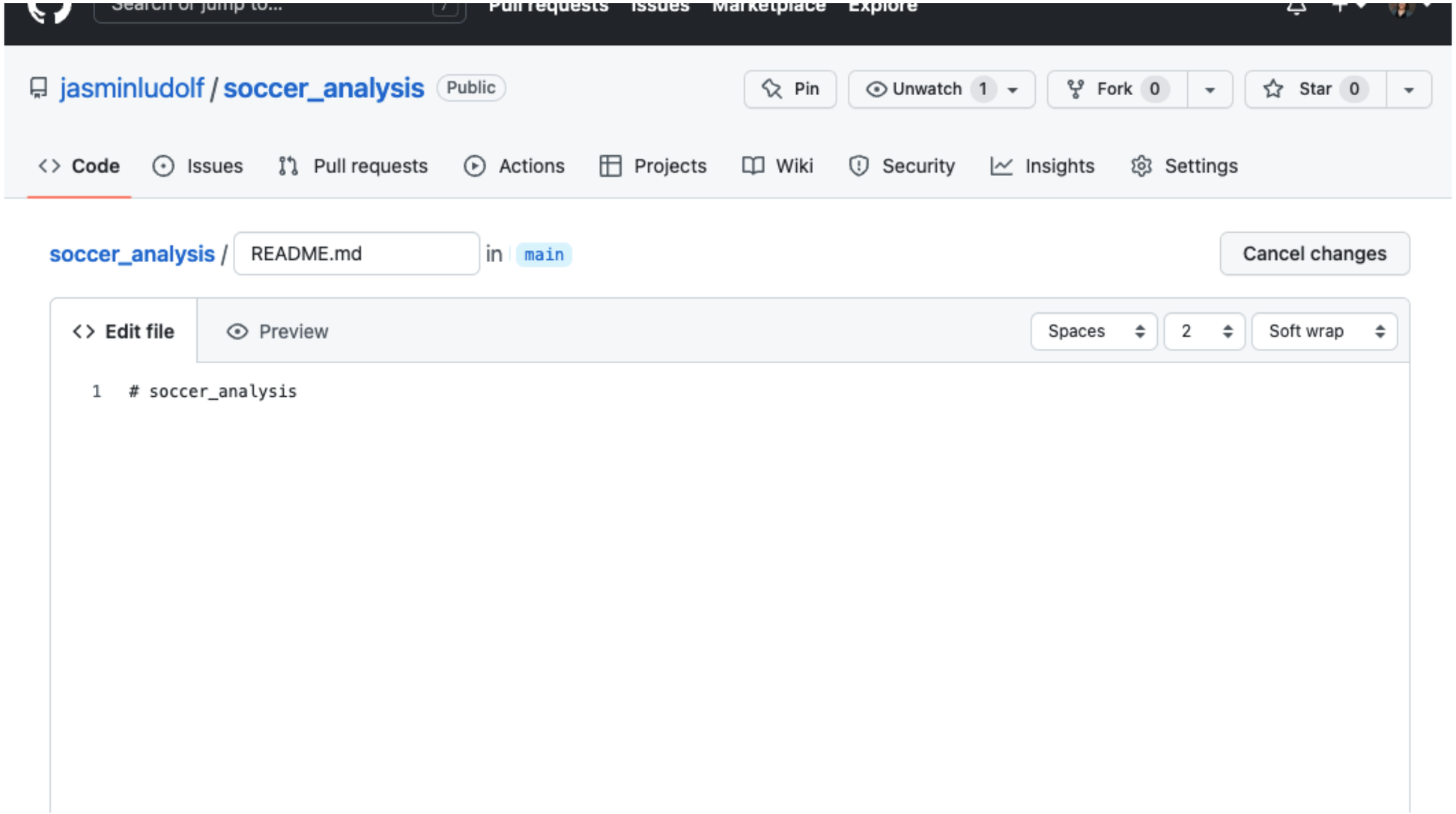
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jasminludolf / soccer_analysis
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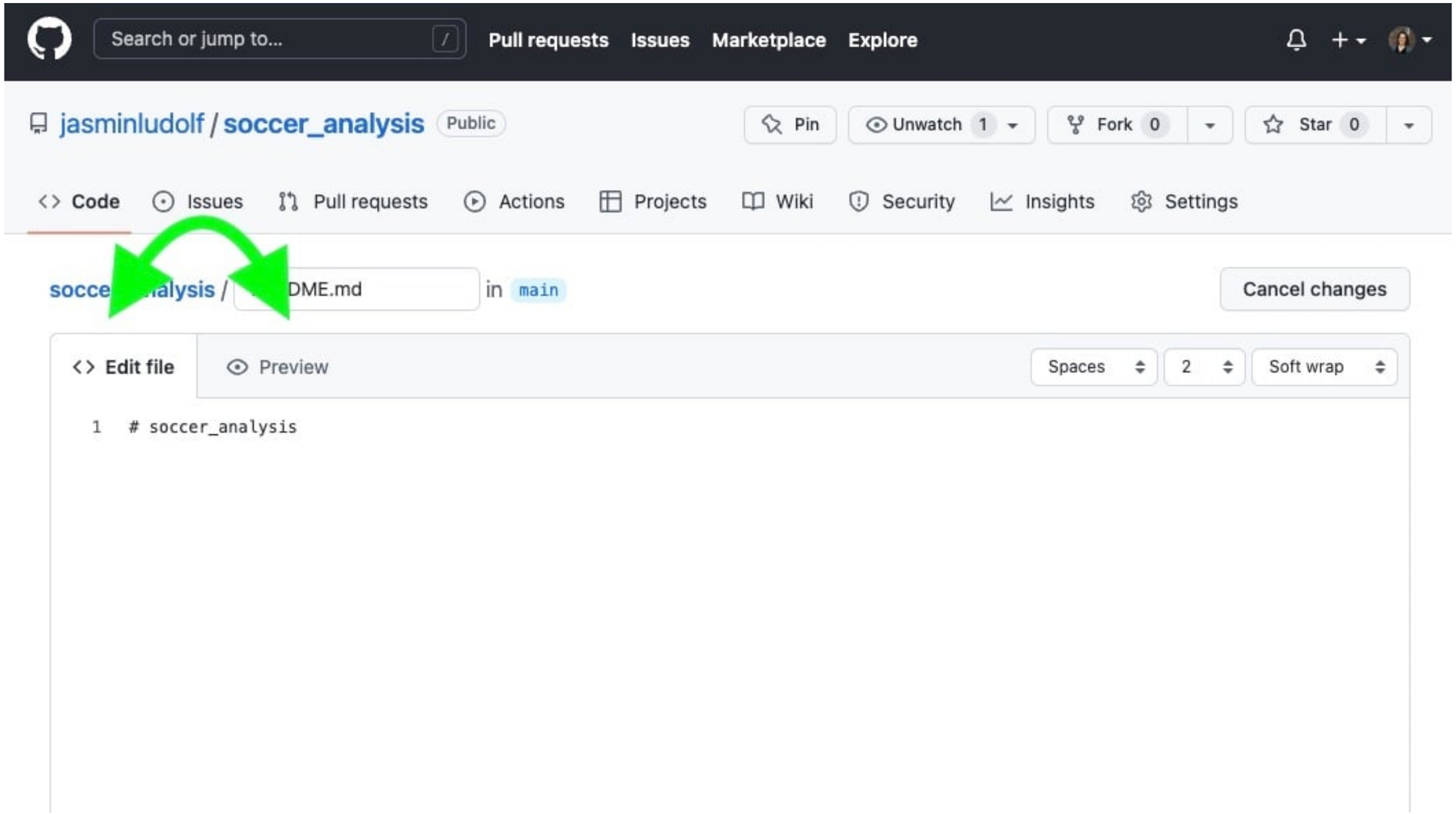
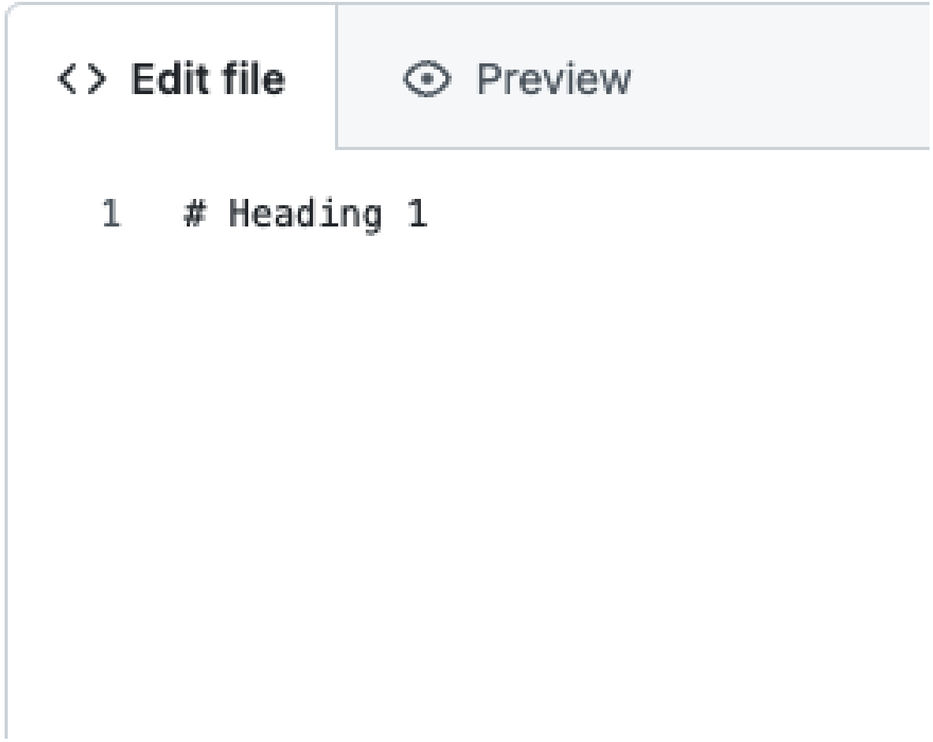
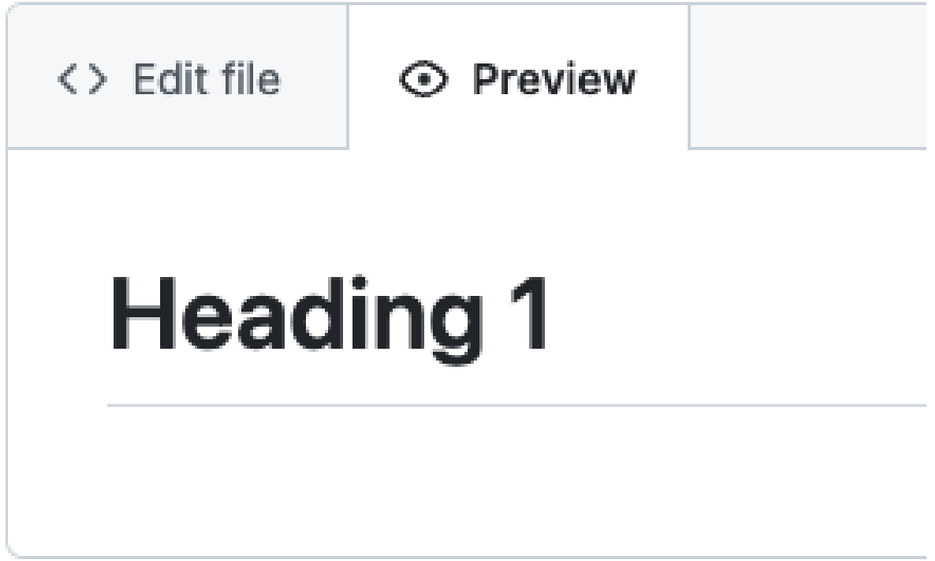
Pin
Unwatch 1
Fork 0
Star 0
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
soccer_analysis /
README.md
in
main
Cancel changes
Edit file
Preview
Spaces
2
Soft wrap
1 # soccer_analysis

Edit vs. Preview



Headings





Headings

Edit file | Preview

```
1  # Heading 1
2  ## Heading 2
3  ### Heading 3
4  #### Heading 4
5  ##### Heading 5
6  ###### Heading 6
```

Headings

Edit file | Preview

```
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3  ### Heading 3
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6  ###### Heading 6
```
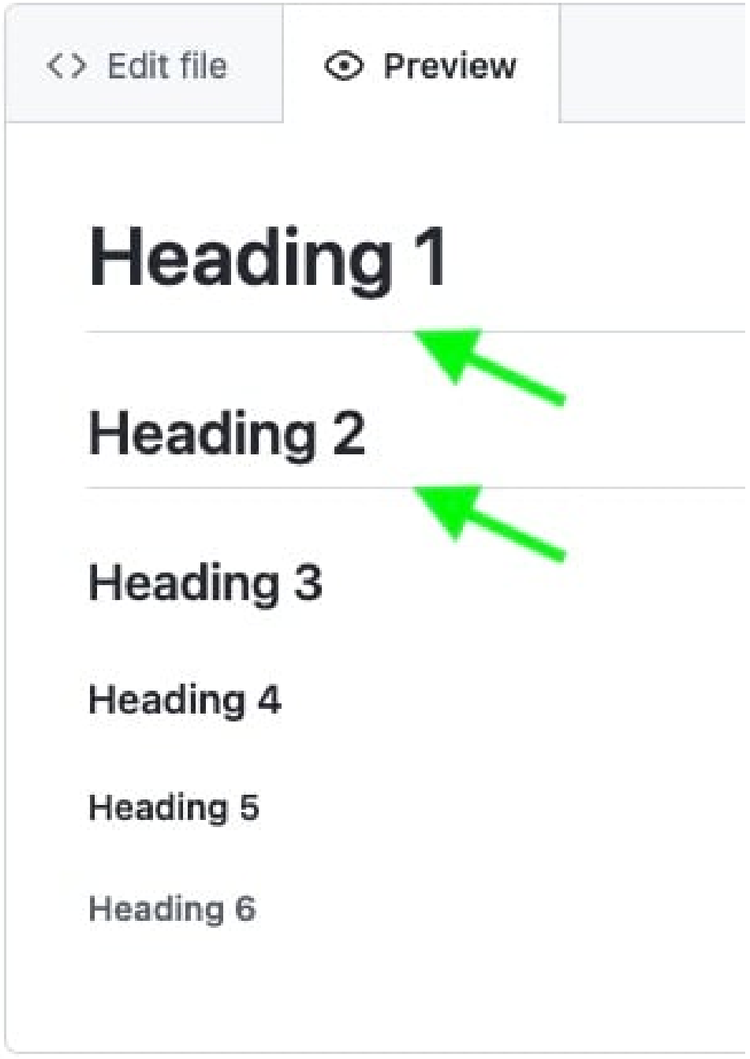
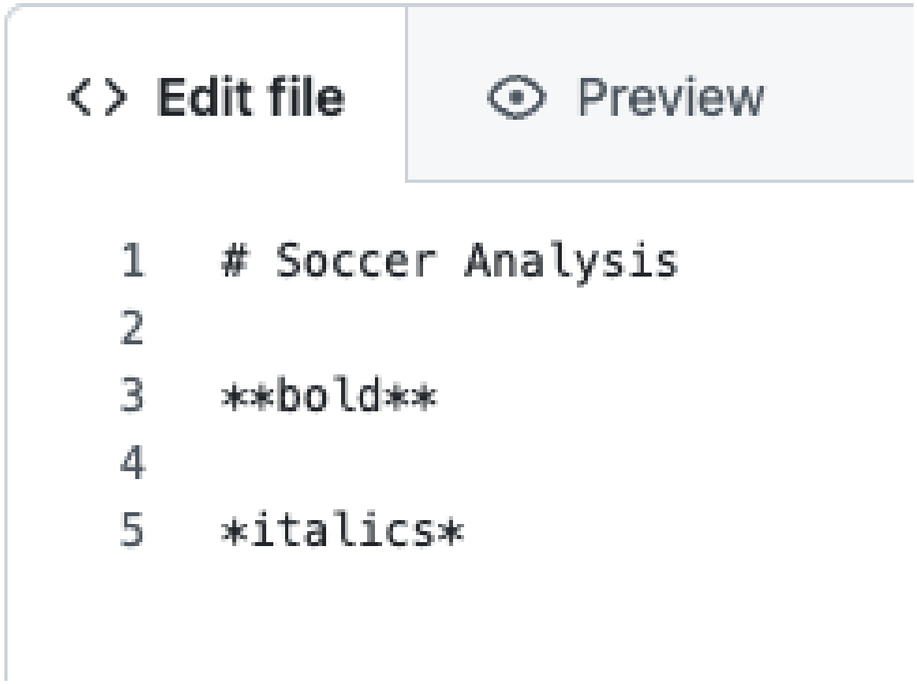
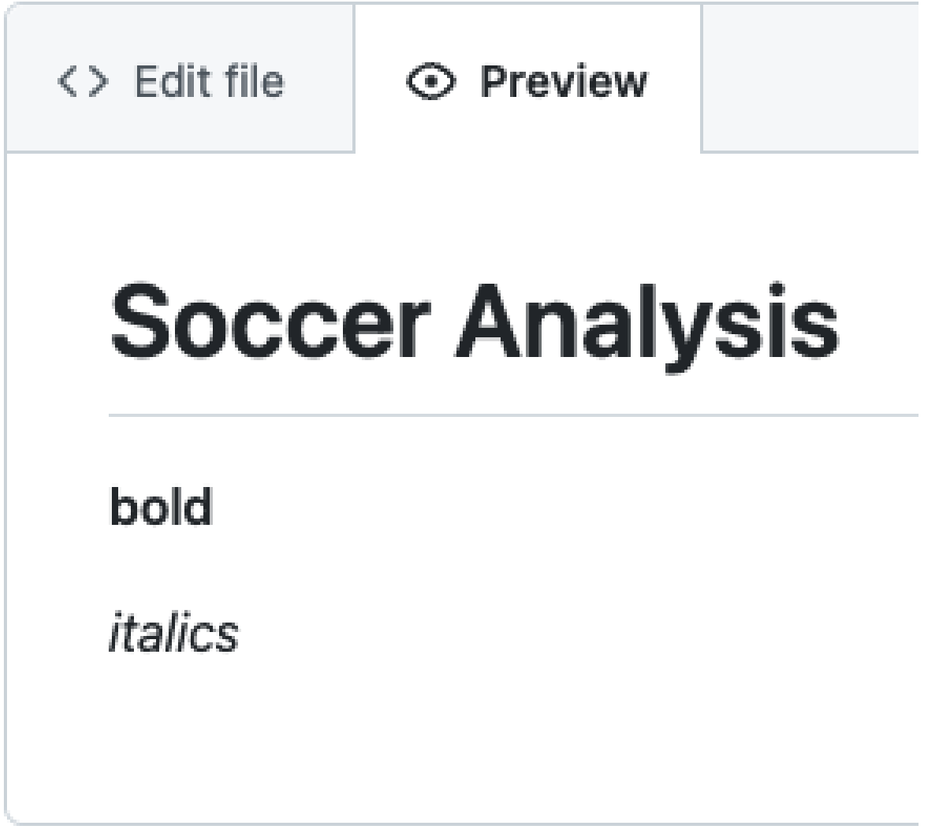
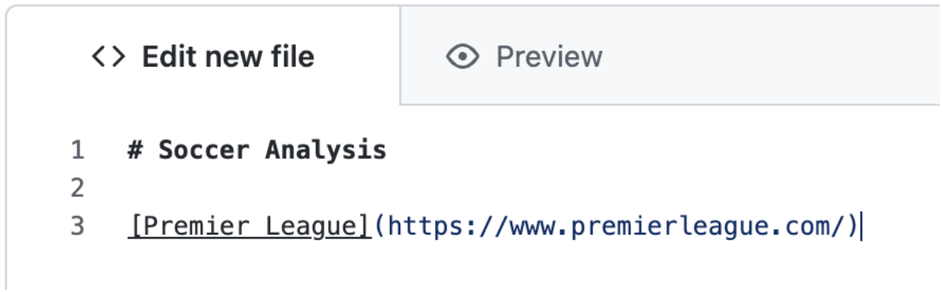



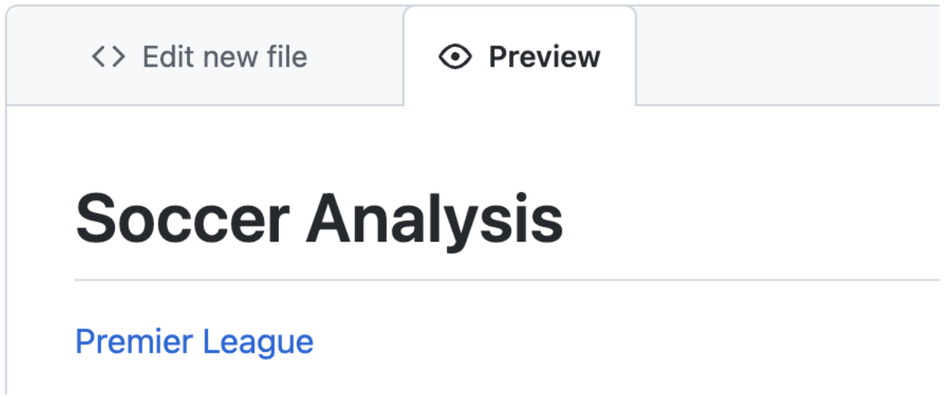
Text formatting



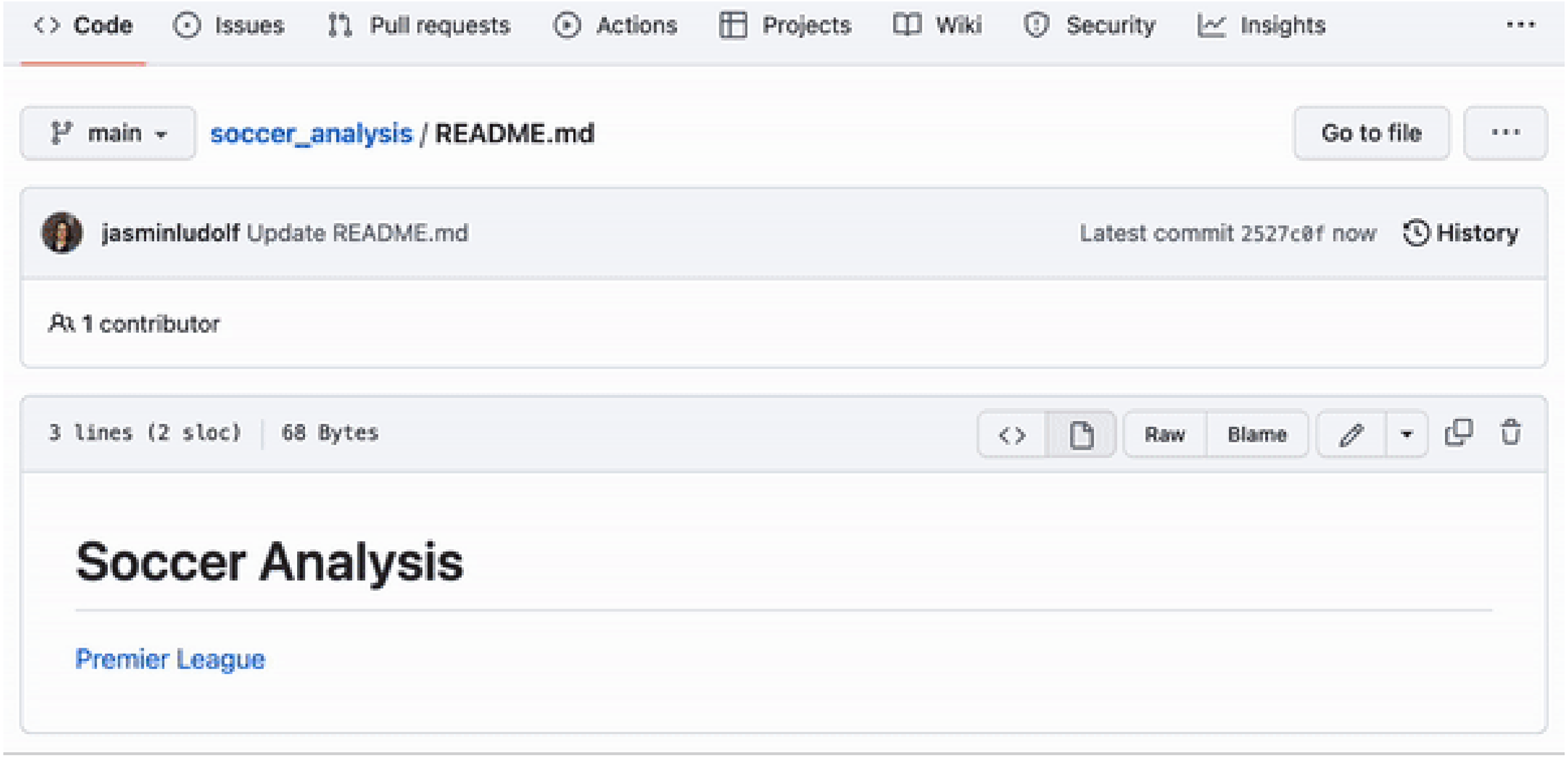


Hyperlinks

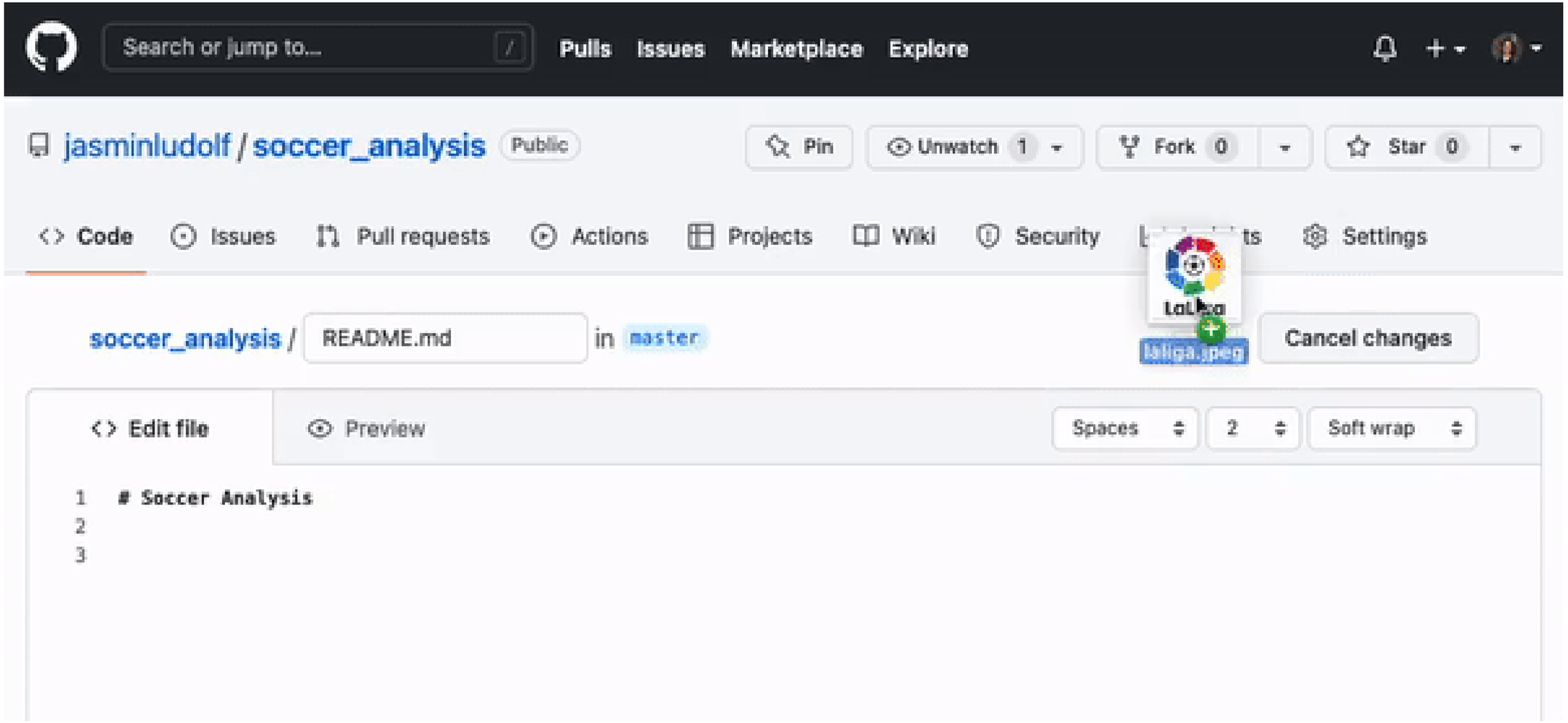

Edit new file
Preview
1 # Soccer Analysis
2
3 [Premier League](https://www.premierleague.com/)


Edit new file
Preview
Soccer Analysis
Premier League

Hyperlinks


Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
main
soccer_analysis / README.md
Go to file
jasminludolf Update README.md
Latest commit 2527c0f now
History
1 contributor
3 lines (2 sloc) | 68 Bytes
Raw
Blame
Soccer Analysis
Premier League

Images


Search or jump to...
Pulls
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master
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Cancel changes
Edit file
Preview
Spaces
2
Soft wrap
1 # Soccer Analysis
2
3

Writing a README

- Need to be descriptive
  - Anyone should understand our project
- List the contents of the repository
- Clearly explains the project to others

README fundamentals

- Title
- Description of technology
  - Why?
- Description of the process
  - Why?
- Table of contents

README extras

- How the project came about
- The motivation
- Limitations
- Challenges
- What problem it hopes to solve
- What the intended use is
- Credits

Let's practice!

INTRODUCTION TO GITHUB CONCEPTS