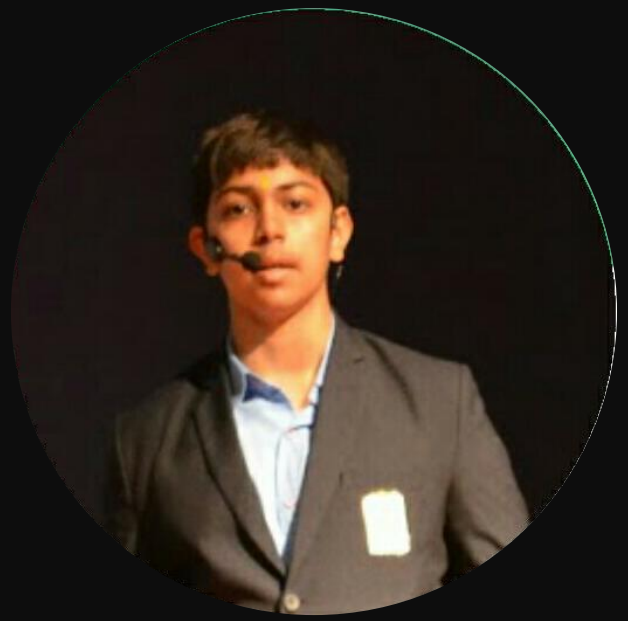
Microsoft Student Partners

Effective GitHub

Rishit Dagli (@rishit_dagli)
Ricardo Prins (@thericardoprins)



Rishit is a 10 grade student and is a past TED-X and Ted-Ed speaker. An AI and android enthusiast and is also a Google Certified Mobile site developer. He has often represented India in international level Hackathons and competitions and also won a few. He loves to conduct research and has written 7 research papers too

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Rishit Dagli

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Rishit Dagli

Ricardo is not a 10 grade student, but he is cool anyways. He is a Software Engineer with, among other stuff, a B.Sc. in International Relations and a Masters in Military Sciences. He is currently pursuing a Bachelor degree in Computer Science. He is a Microsoft Beta Student Partner, and a Co-Founder in Tesseract Coding.

@thericardoprins

Ricardo Prins

ricardoprins

@ricardoprins

iamprins.com

Ideal Audience

- Devs who want to make their life a lot easier
- Devs who have not worked with GitHub a lot

Motivation behind Version Control **01**

Git vs GitHub **02**

Git Concepts **03**

- Repository
- Remote
- Branch
- Merge
- Conflicts
- Commits

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Motivation behind a Version Control

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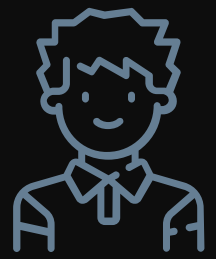
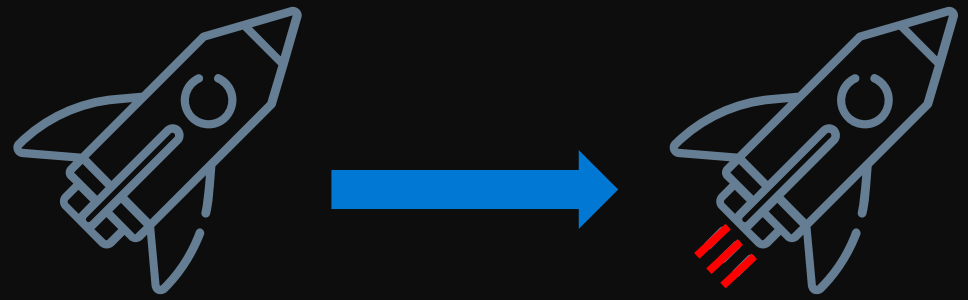
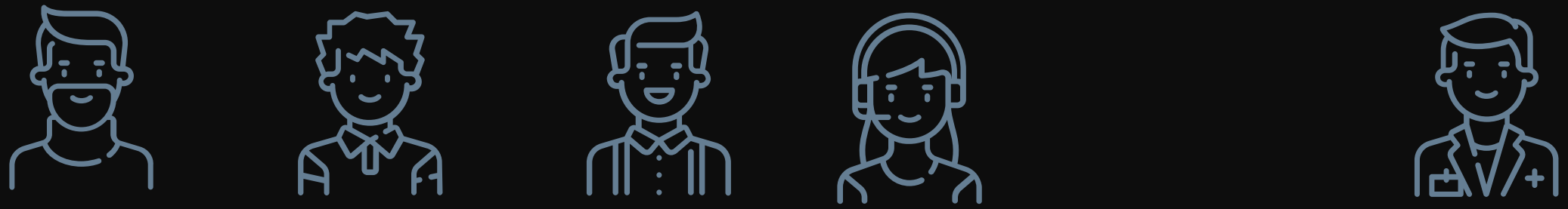
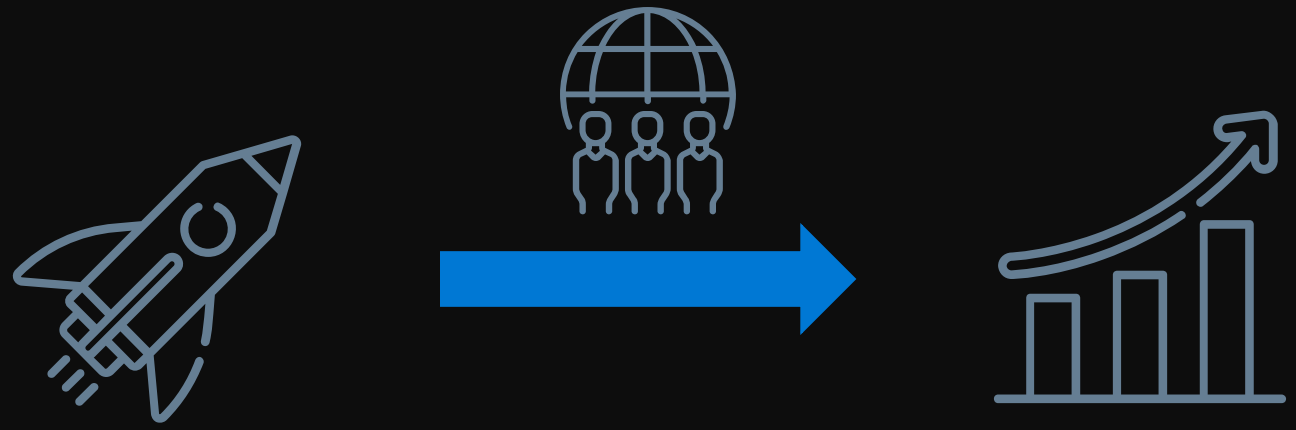








Version Control Systems

Major Types

- Distributed
- Central

Version Control Systems

- Change history of all files

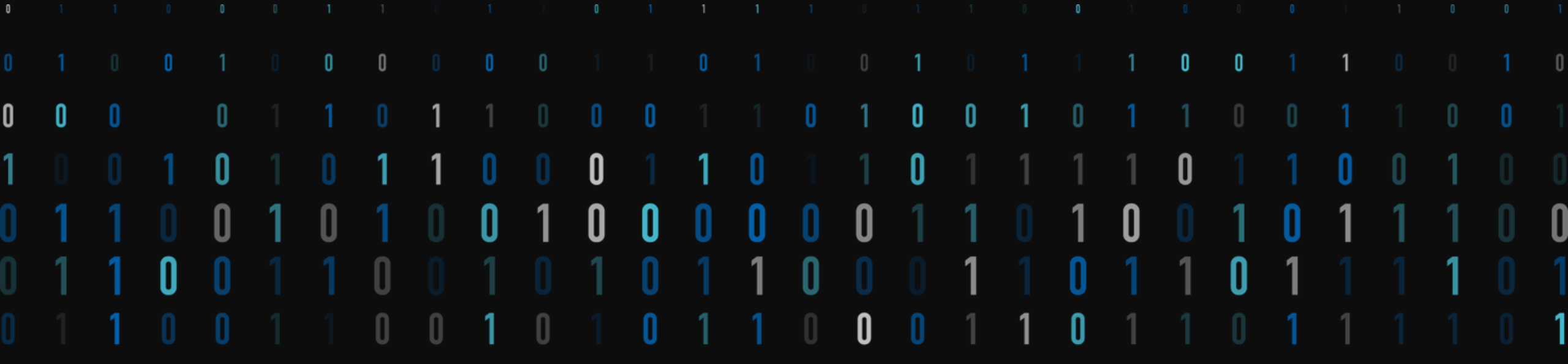
Version Control Systems

- Change history of all files
- Author, date and message

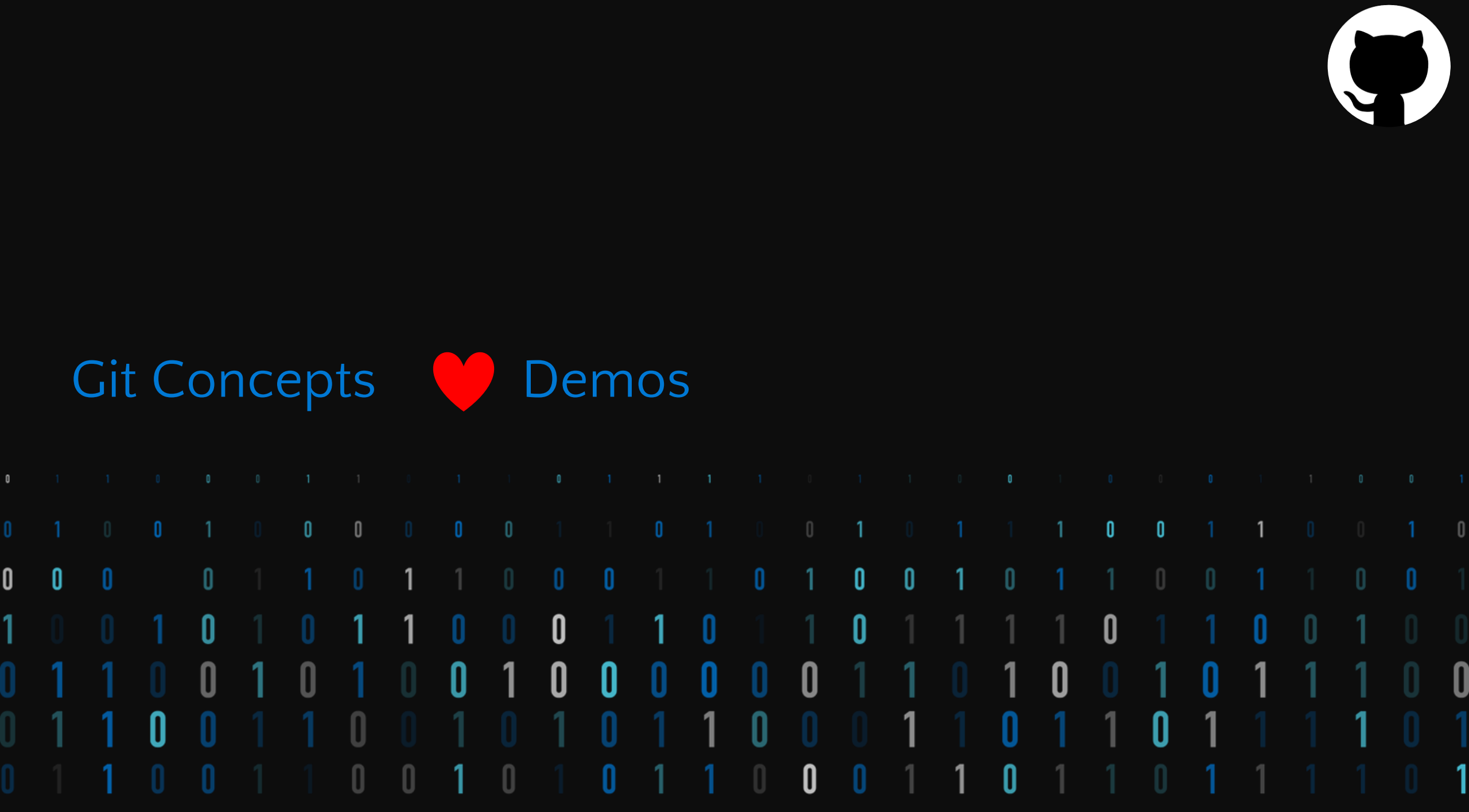
Version Control Systems

- Change history of all files
- Author, date and message
- Branching and merging

Git vs GitHub



Git Concepts


Git Concepts
Demos

bit.ly/effective-github

Code | Issues 0 | Pull requests 0 | Actions | Projects 0 | Wiki | Security 0 | Insights | Settings

Branch: master ▾ Effective-GitHub-Training / demos.md

Find file | Copy path

Rishit-dagli Added commits and remote demo 4054ea8 1 minute ago

1 contributor

38 lines (27 sloc) | 550 Bytes

Raw | Blame | History

Demos

This file contains all demo commands used for Effective GitHub training.

Repositories

- Initialize a repository

```
mkdir effective-github-demo-1
git init
nano test.py
```

- Add to staging area

Repository

- Simply the codebase

Repository

- Simply the codebase
- With the Git specific files

Repository

- Simply the codebase
- With the Git specific files
- `git init`

Repository

- Simply the codebase
- With the Git specific files
- `git init`
- Tracked and untracked files

Repository

- Simply the codebase
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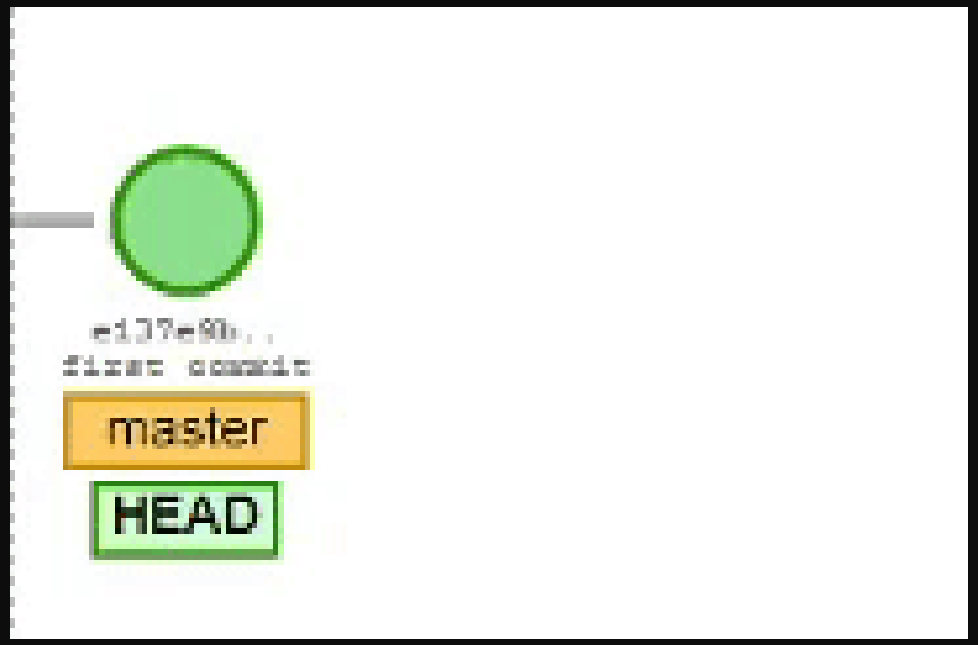
- `git init`
- Tracked and untracked files
- `git add`

Repository

- Simply the codebase
- With the Git specific files
- `git init`
- Tracked and untracked files
- `git add`
- The staging area

Commits

- Add it to the changelog



Commits

- Add it to the changelog
- Not pack everything in one commit

Commits

- Add it to the changelog
- Not pack everything in one commit
- Messages

Commits

- Add it to the changelog
- Not pack everything in one commit
- Messages
- `git commit`
- `git commit -m “Subject”`

Remote

- Git repository not on your machine

Remote

- Git repository not on your machine
- `git remote add <name> <url>`

Remote

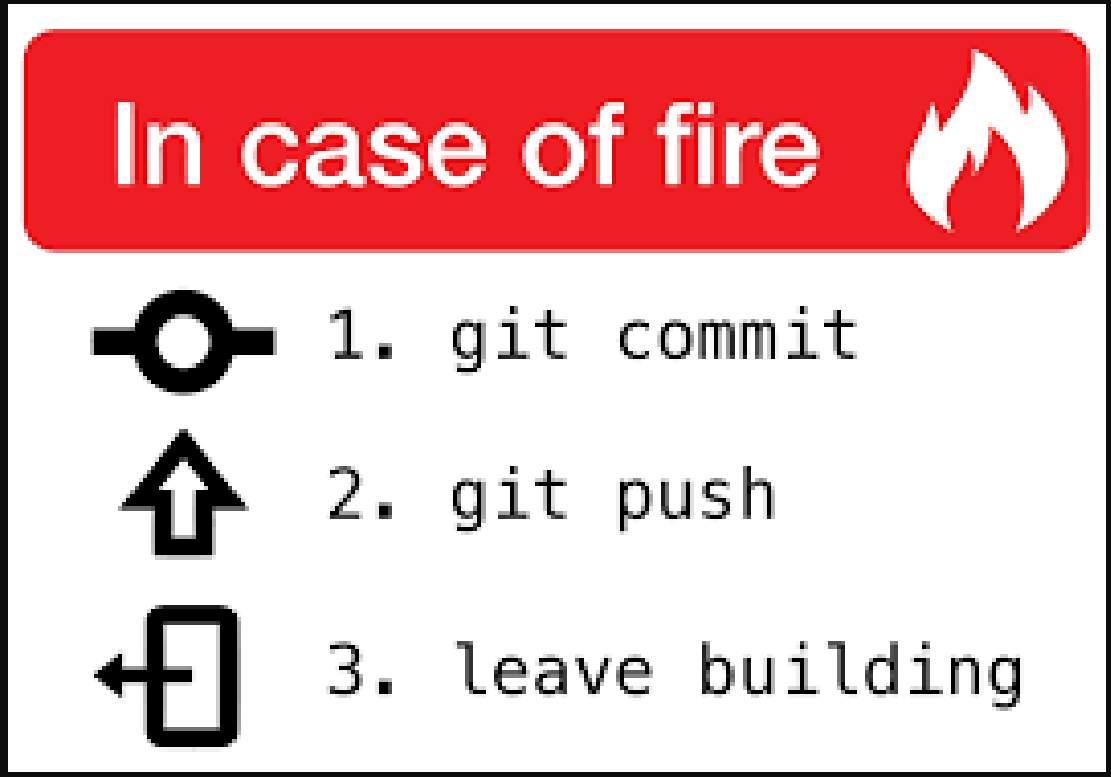
- Git repository not on your machine
- `git remote add <name> <url>`
- `git remote -v`

Remote

- Git repository not on your machine
- `git remote add <name> <url>`
- `git remote -v`
- `git commit -m “Some changes”`

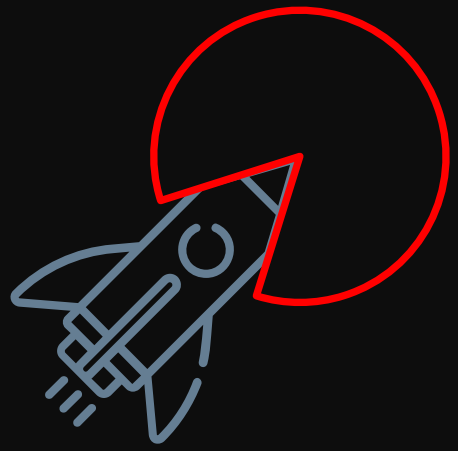
Remote

- Git repository not on your machine
- `git remote add <name> <url>`
- `git remote -v`
- `git commit –m “Some changes”`
- `git push <name>`



Branches

Branches



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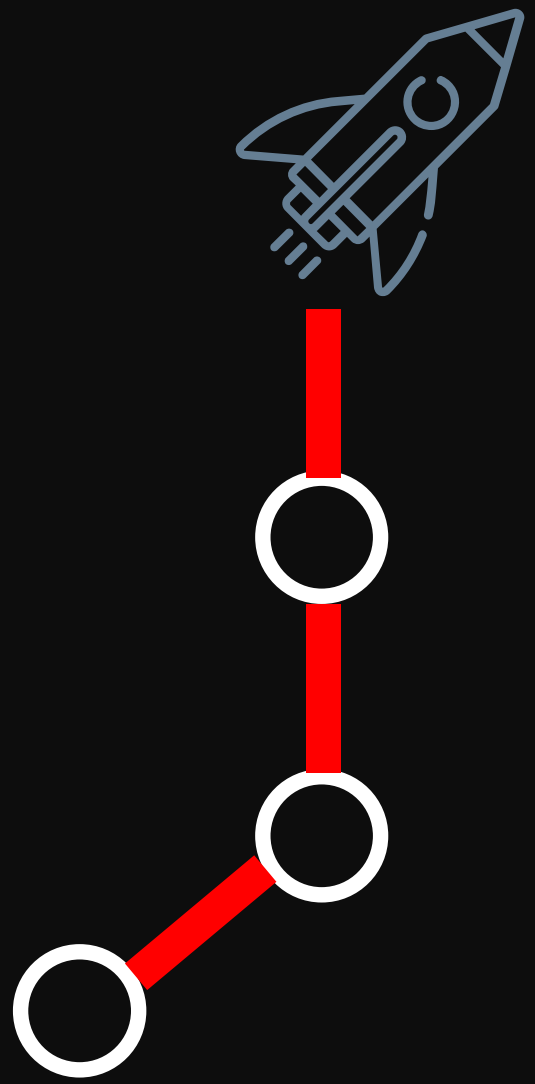

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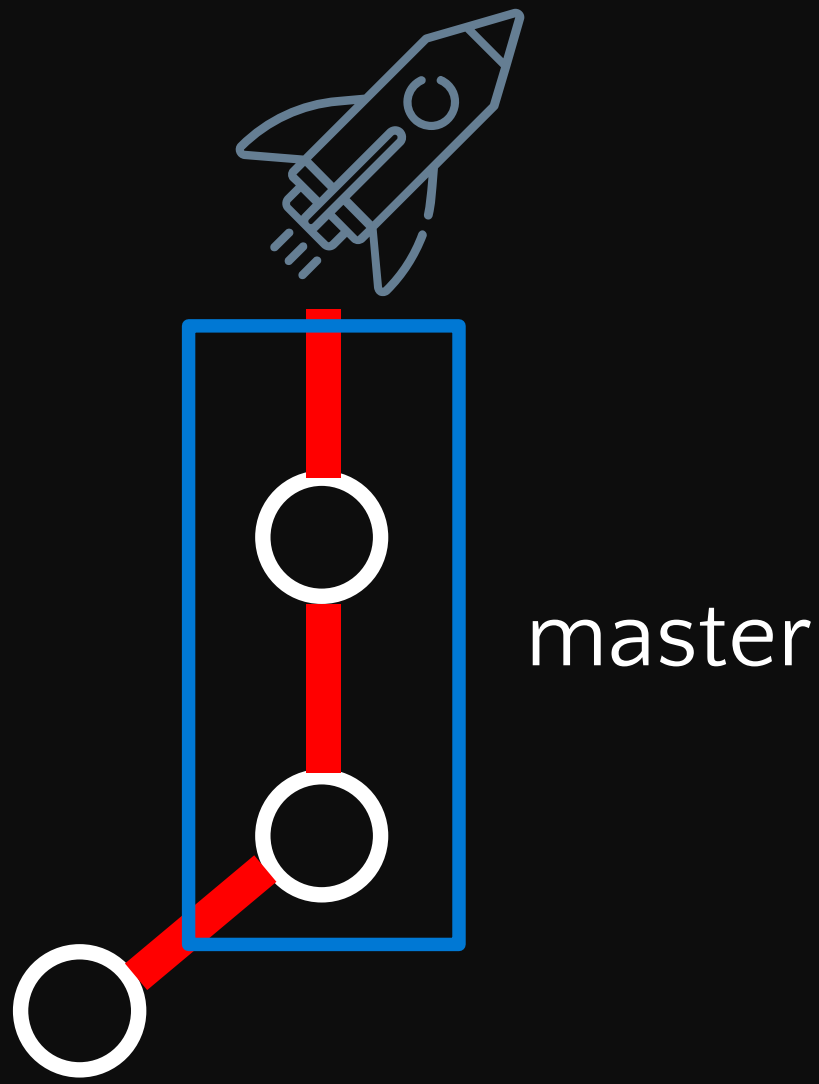

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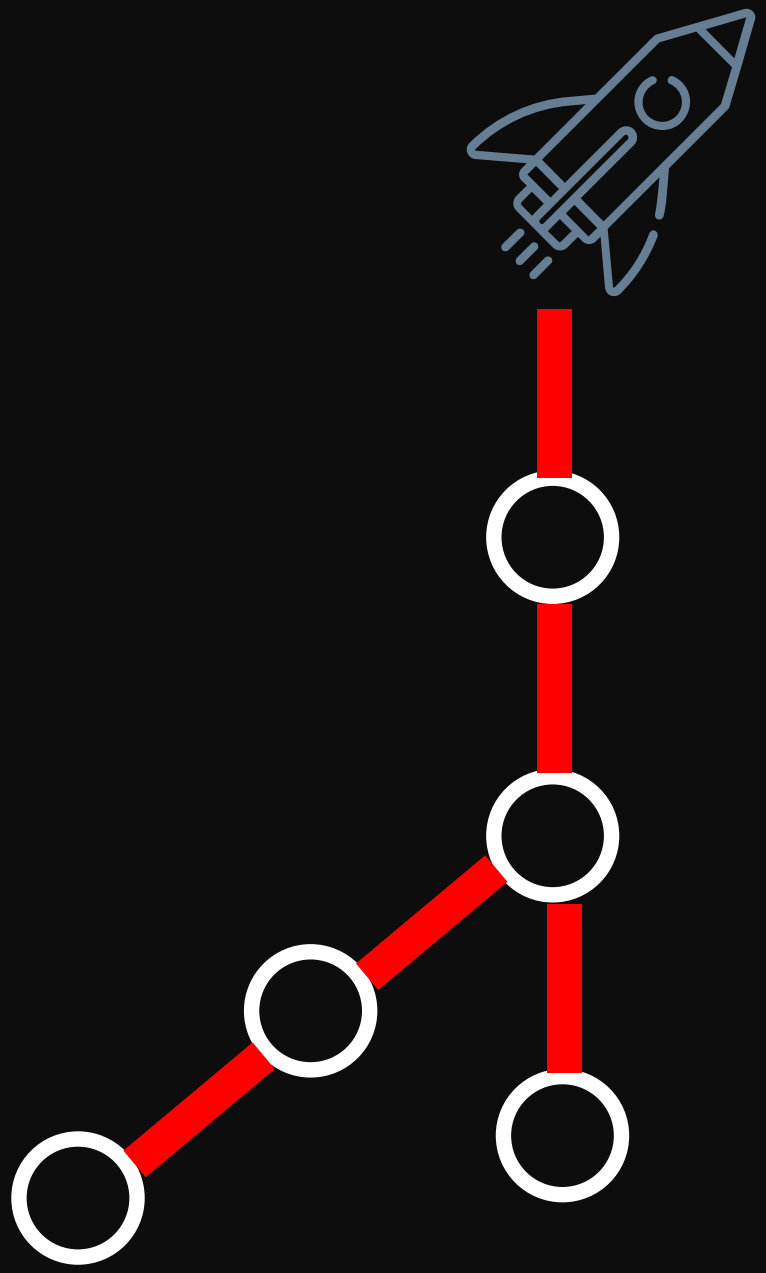

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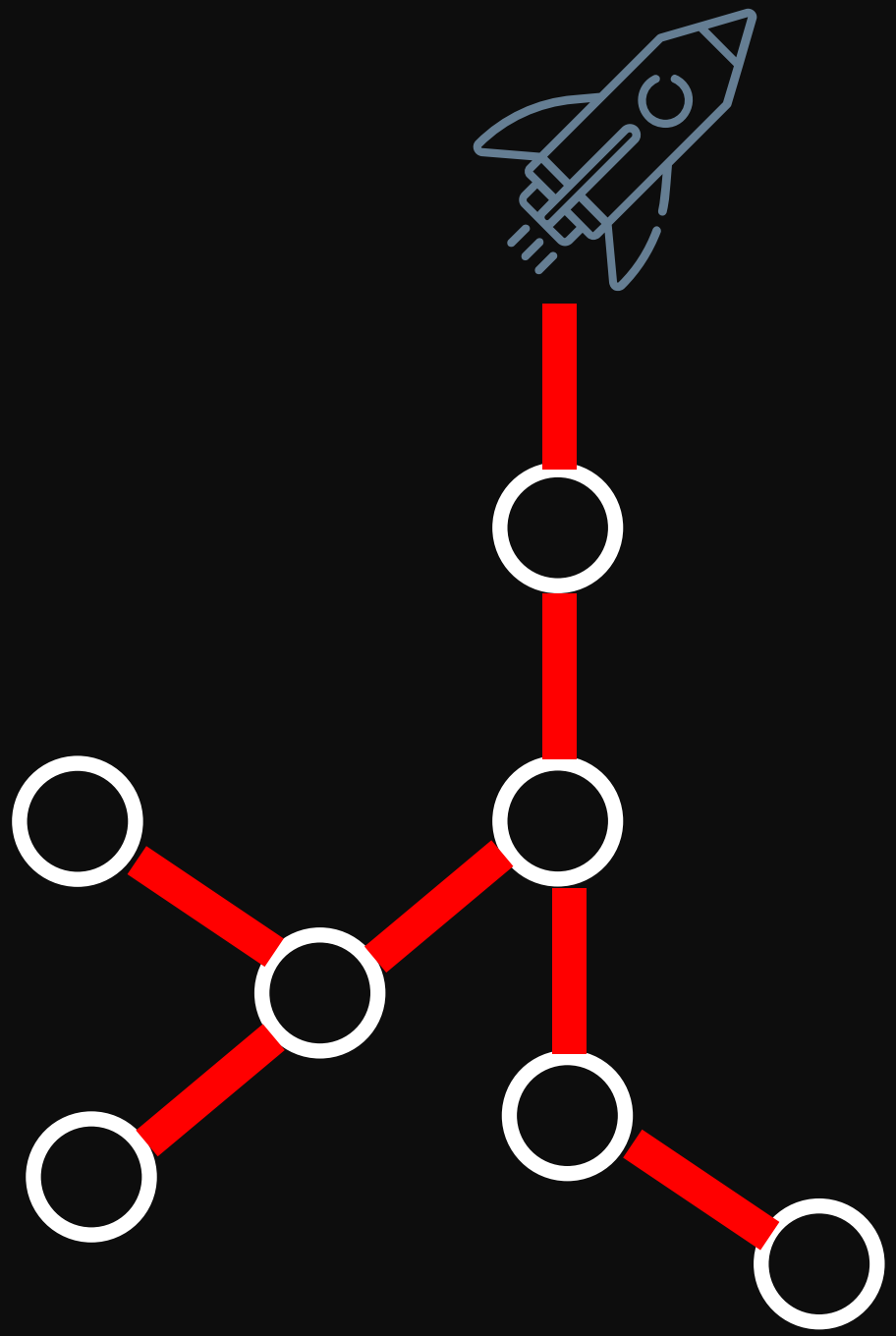

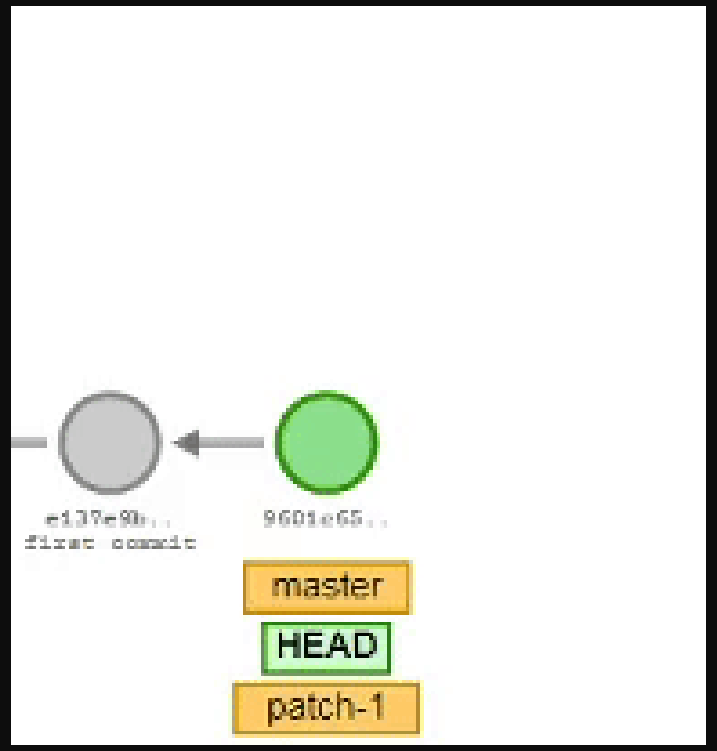

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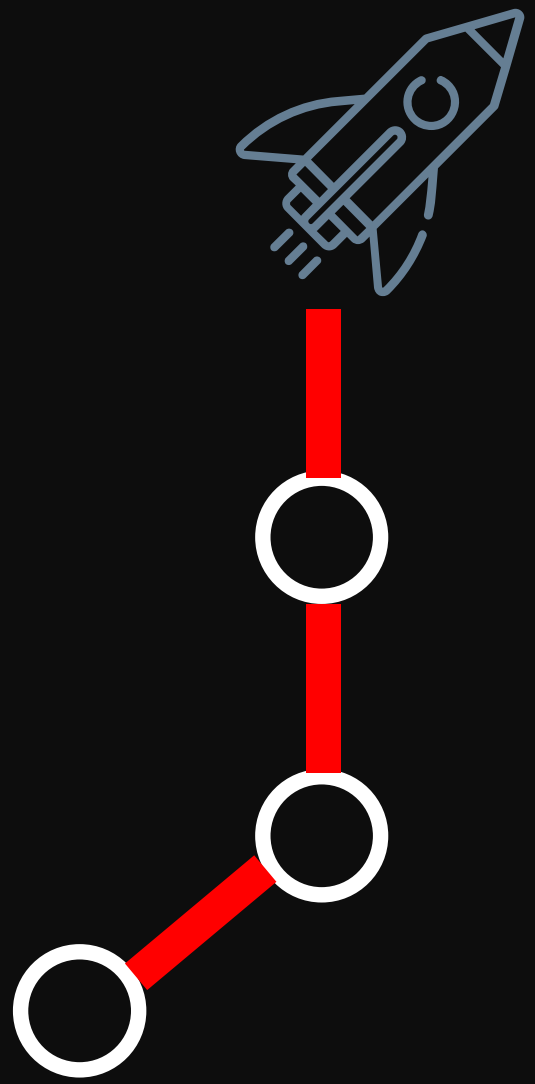

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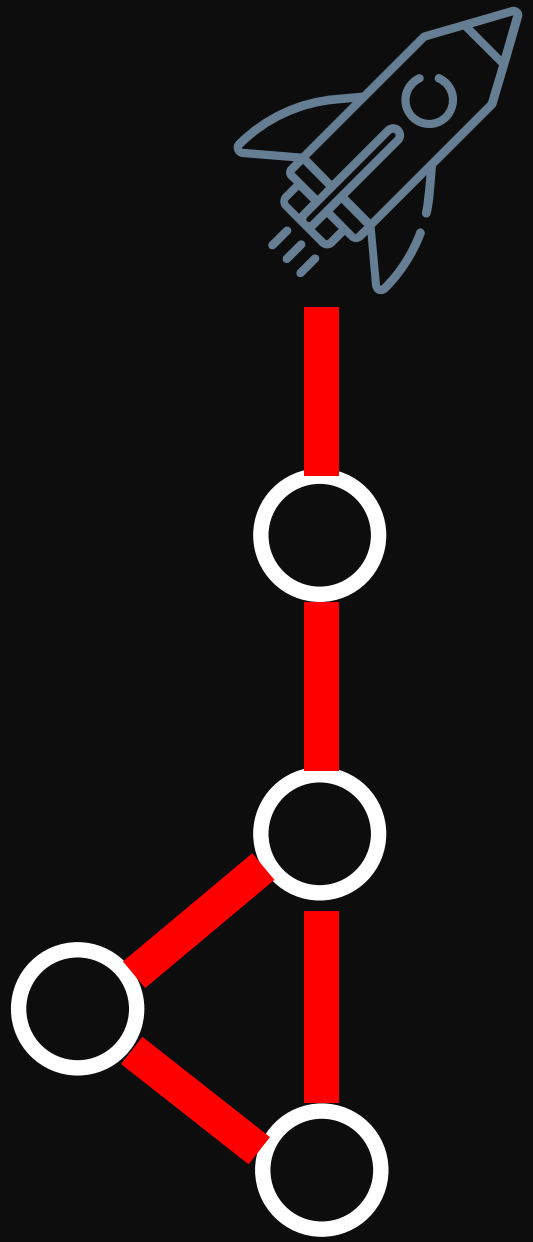


Merge

master

hello_world.py

master

hello_world.py

hola

hola.py

master

```
print("Hello World!")
```

hello_world.py

```
print("Hello World!")
print("How are you doing?)
```

more_greetings.py

hola

```
print("Hola")
```

hola.py

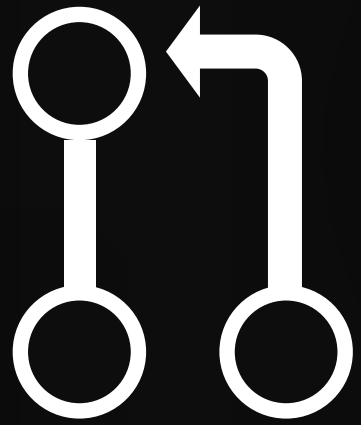
master

```
print("Hello World!")
```

hello_world.py

```
print("Hello World!")
print("How are you doing?)
```

more_greetings.py



hola

```
print("Hola")
```

hola.py

master

```
print("Hello World!")
```

hello_world.py

```
print("Hola")
```

hola.py

```
print("Hello World!")
print("How are you doing?)
```

more_greetings.py

Conflicts

Source: imgflip.com

Conflicts

```
print("Hello World!")
```

Merge conflict

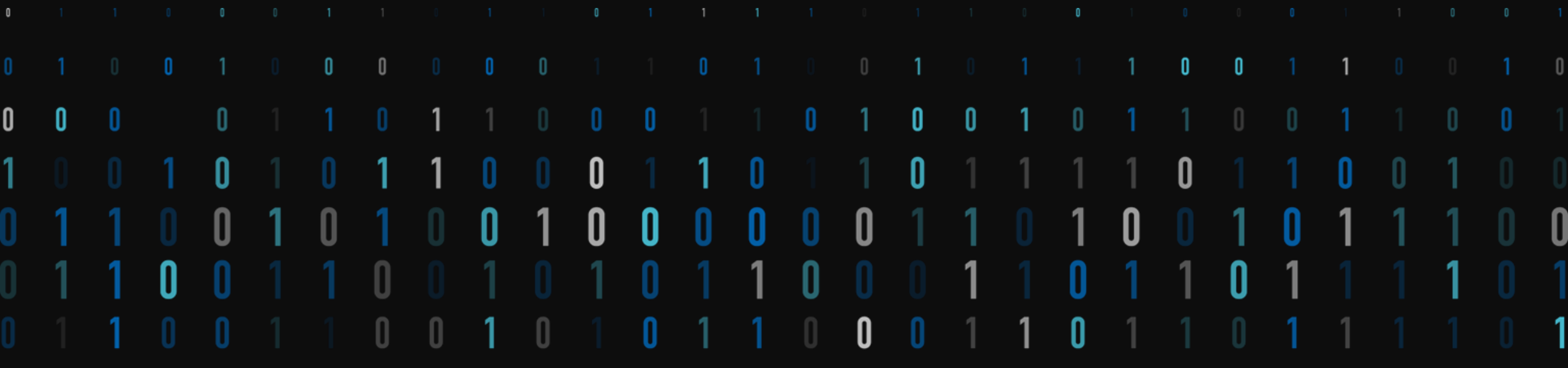
```
print("Hola")
```

Source: imgflip.com

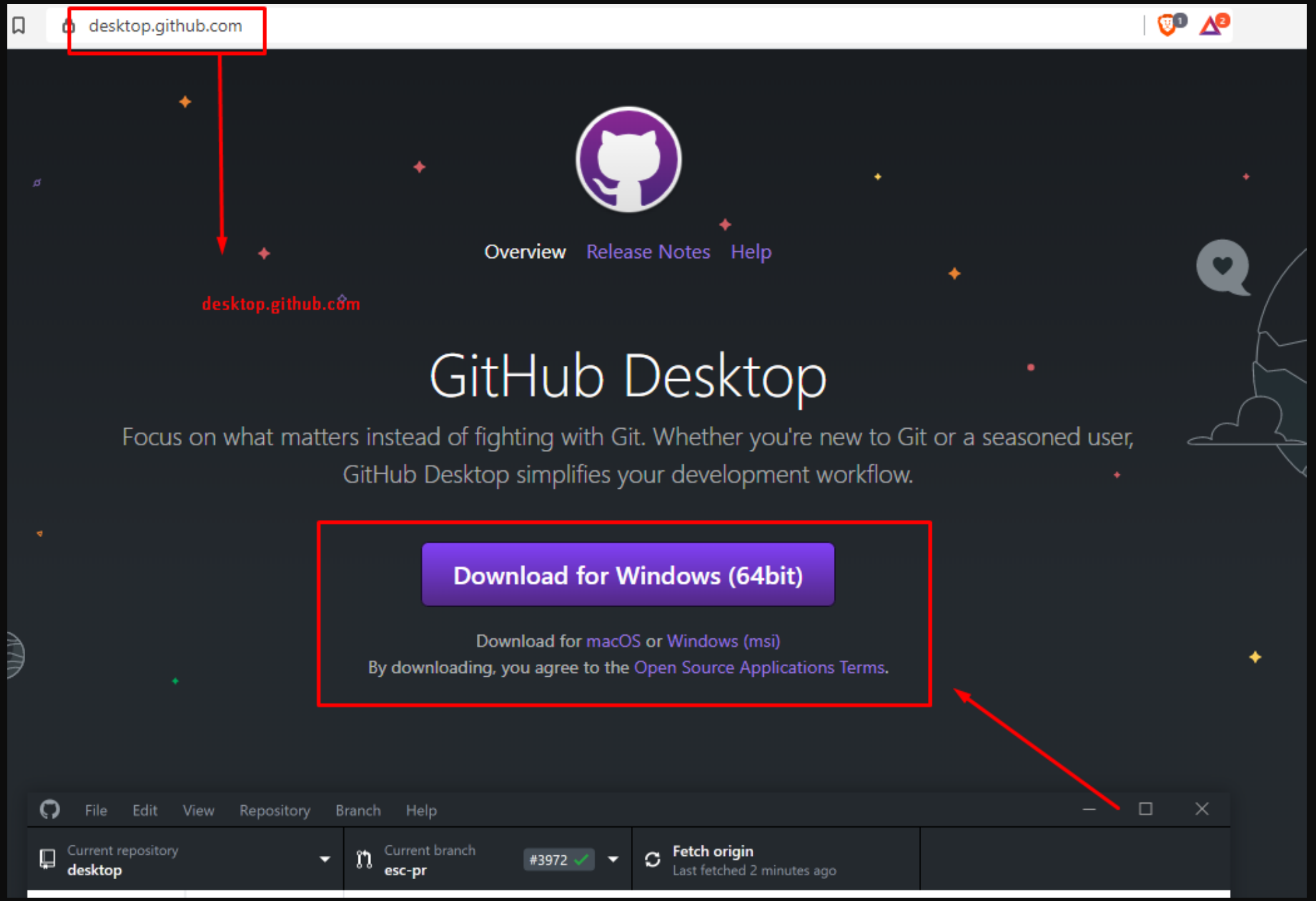
Conflicts

- Use `git mergetool`

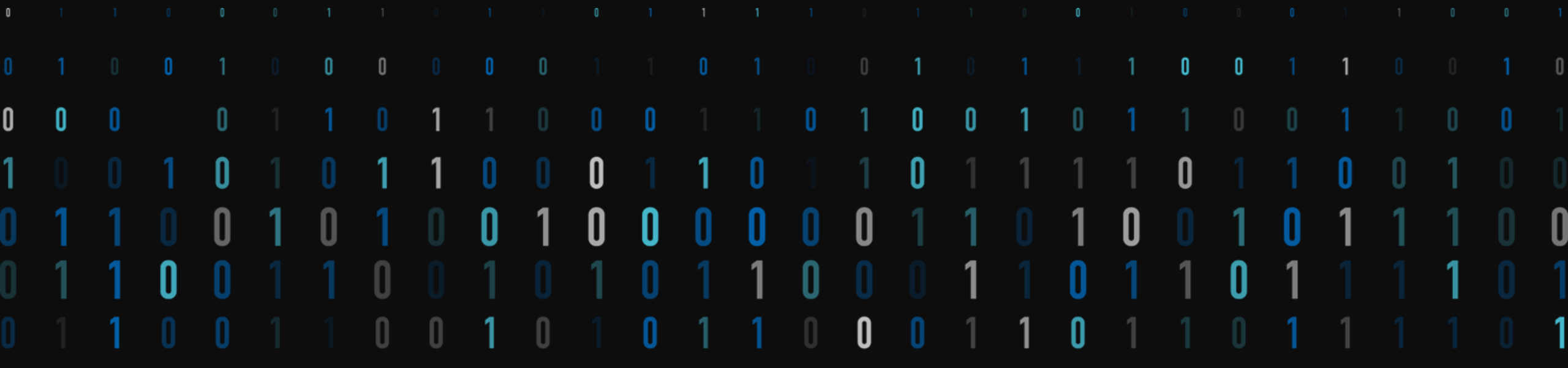
GitHub Desktop



GitHub Desktop



GitHub + VS Code ·



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Version 1.46 is now available! Read about the new features and fixes from May.

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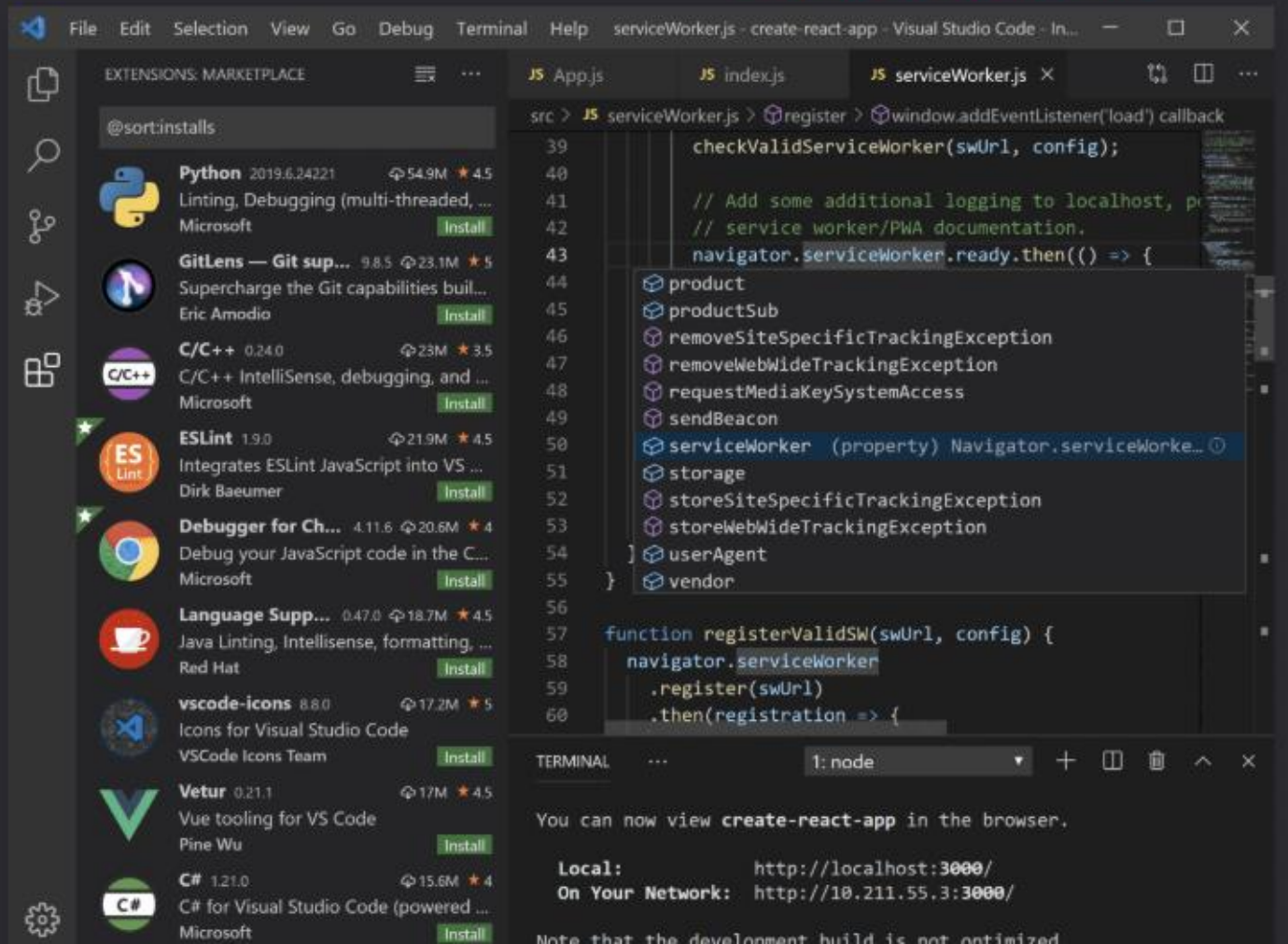
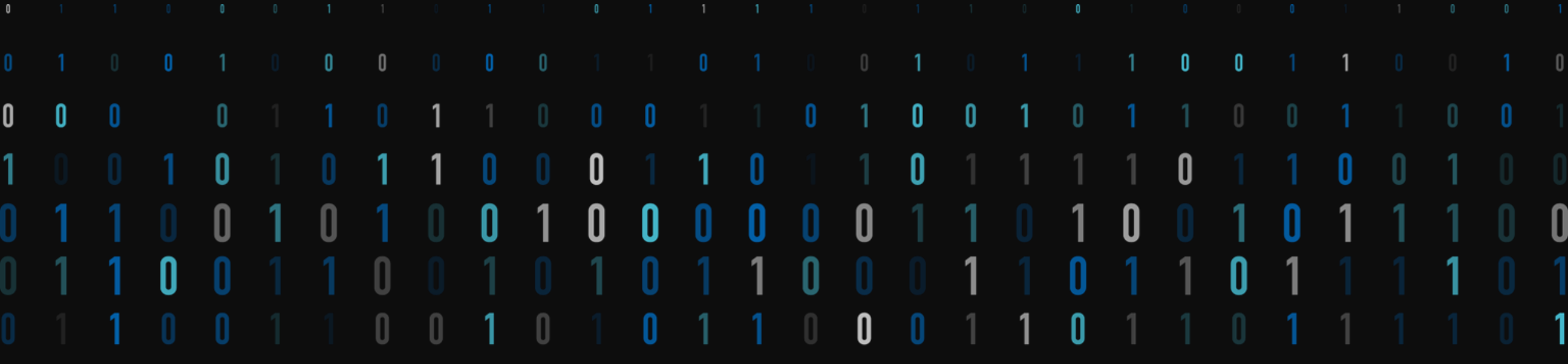
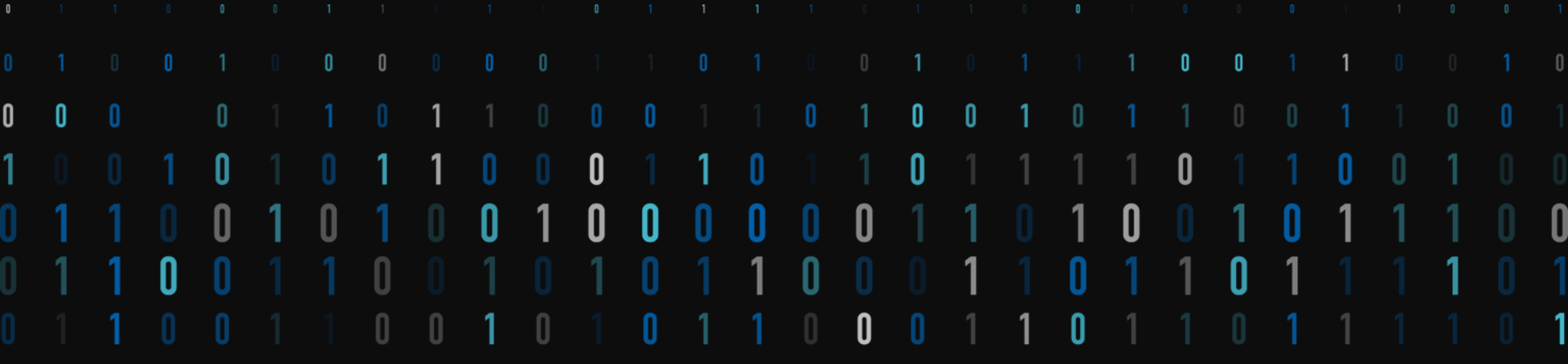


Code Reviews and templates



What next?



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