Bits & Atoms II

The Basics: HTML, CSS and JavaScript

Image:https://mvsm.com/assets/images/project/_2400x3159_crop_center-center/NikeTen_Solo_Principles.jpg

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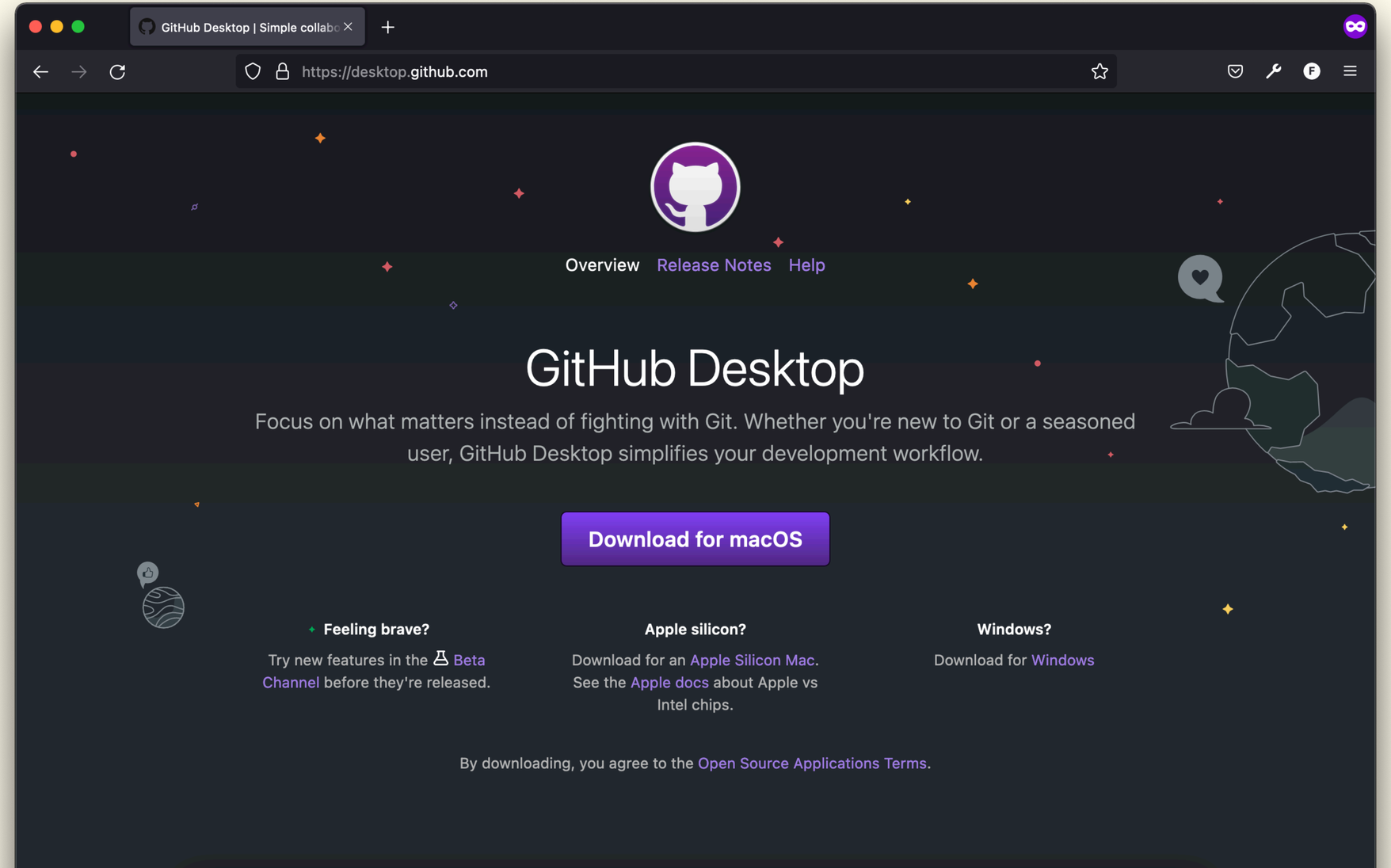
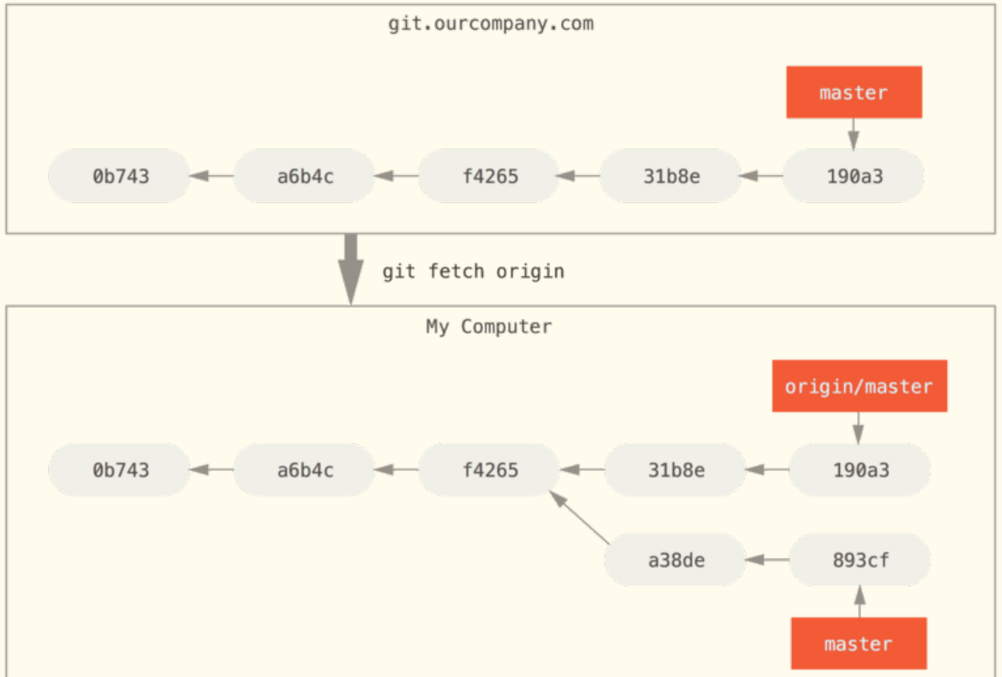
Github Client



Github Desktop
https://desktop.github.com/

Github

- Version control system
- Collaboration (Team/Open Source)

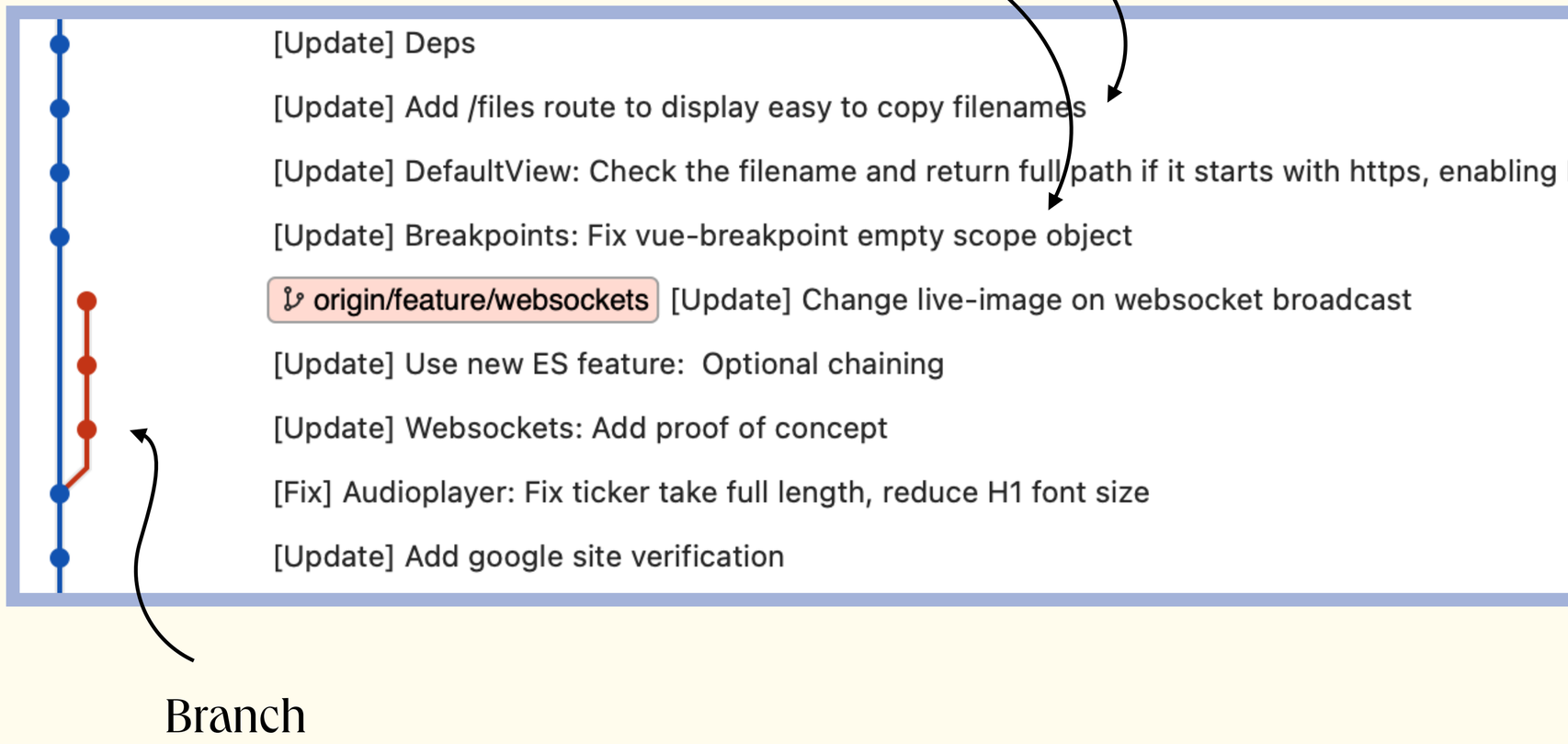


Git Basics
https://git-scm.com/video/what-is-version-control

Git → commit

Commits

Git history

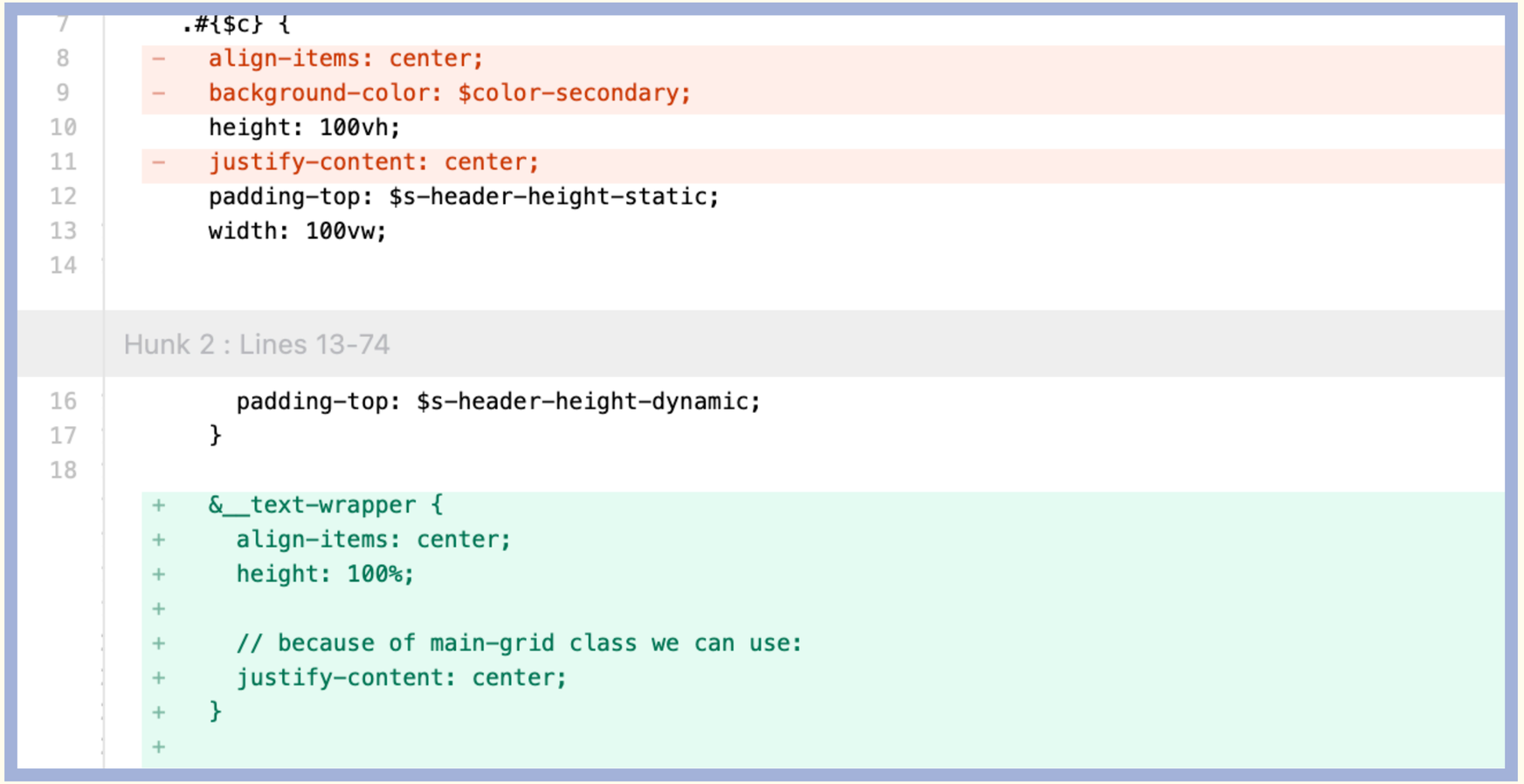


Branch

Git Basics
https://git-scm.com/video/what-is-version-control

Git → Changes

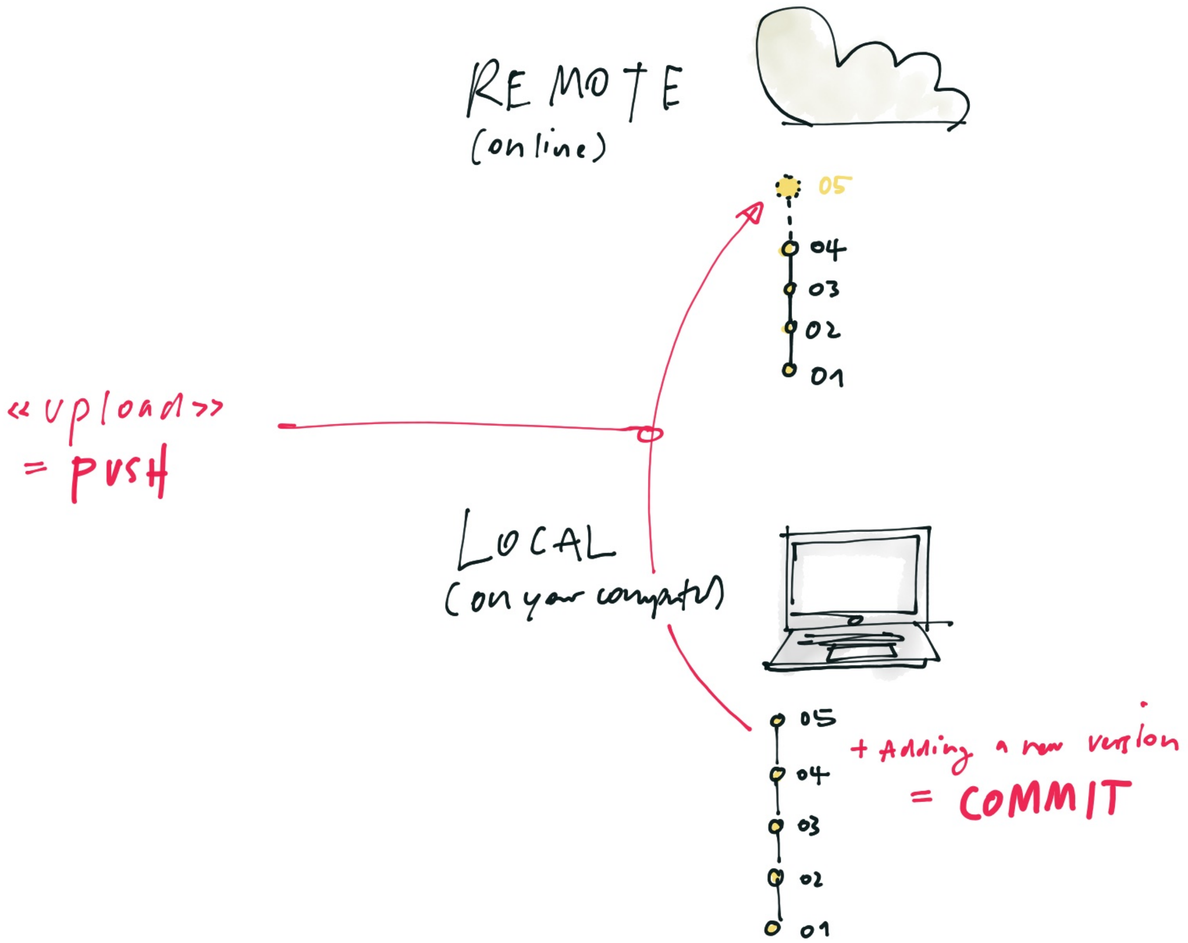
Lines deleted



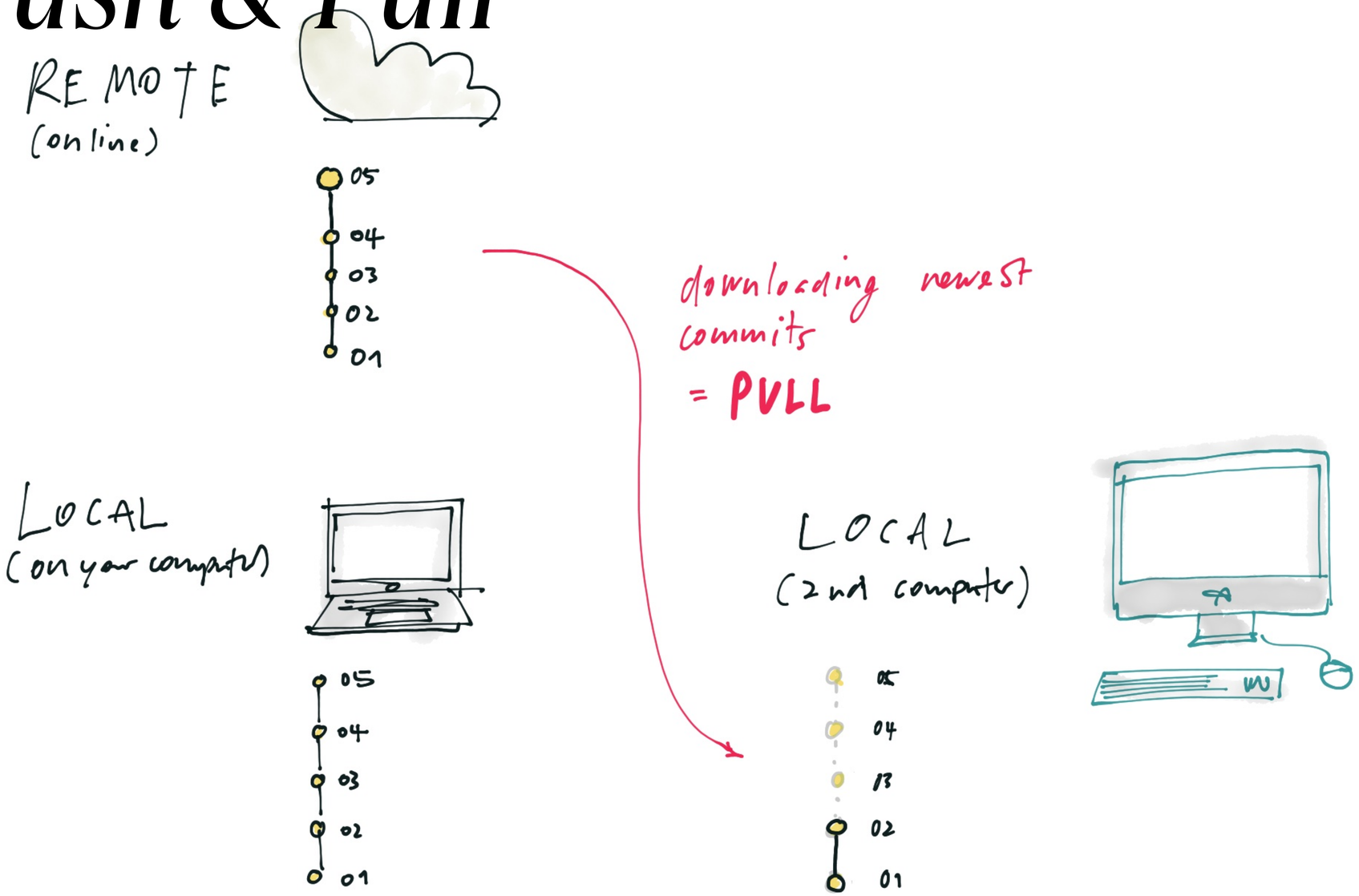
```
.#{$c} {
-   align-items: center;
-   background-color: $color-secondary;
    height: 100vh;
-   justify-content: center;
    padding-top: $s-header-height-static;
    width: 100vw;


Hunk 2 : Lines 13-74

      padding-top: $s-header-height-dynamic;
    }

+   &__text-wrapper {
+     align-items: center;
+     height: 100%;
+
+     // because of main-grid class we can use:
+     justify-content: center;
+   }
+
```

Lines added

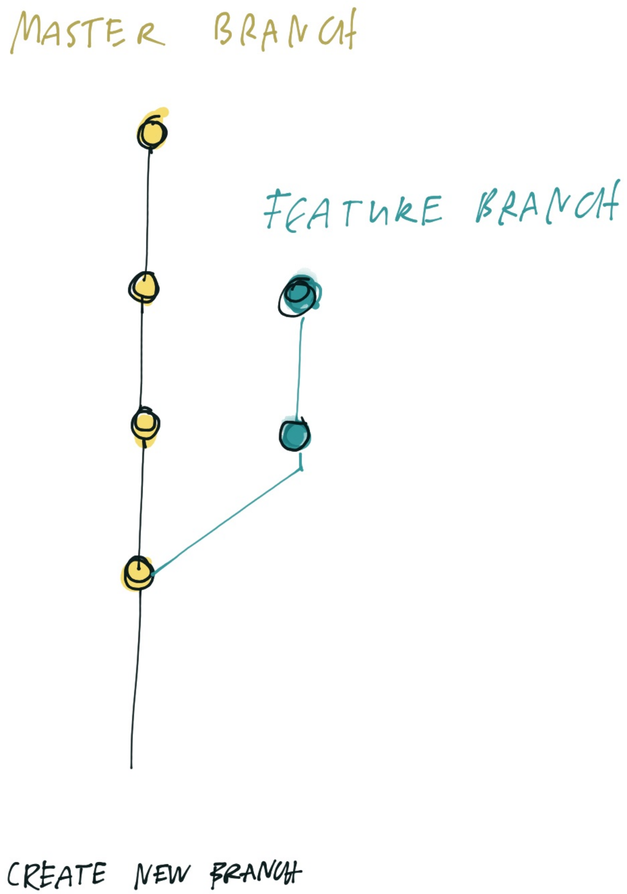
Git → Remote vs. Local

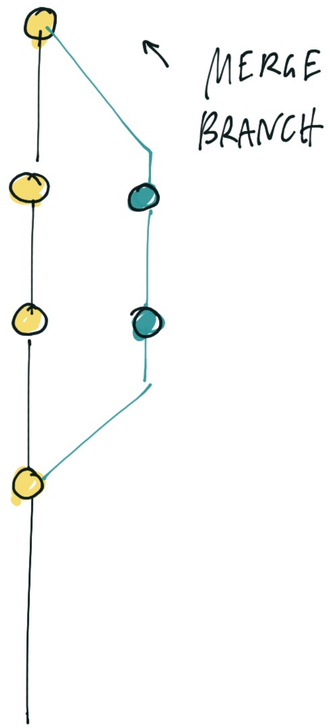


Git → Push & Pull

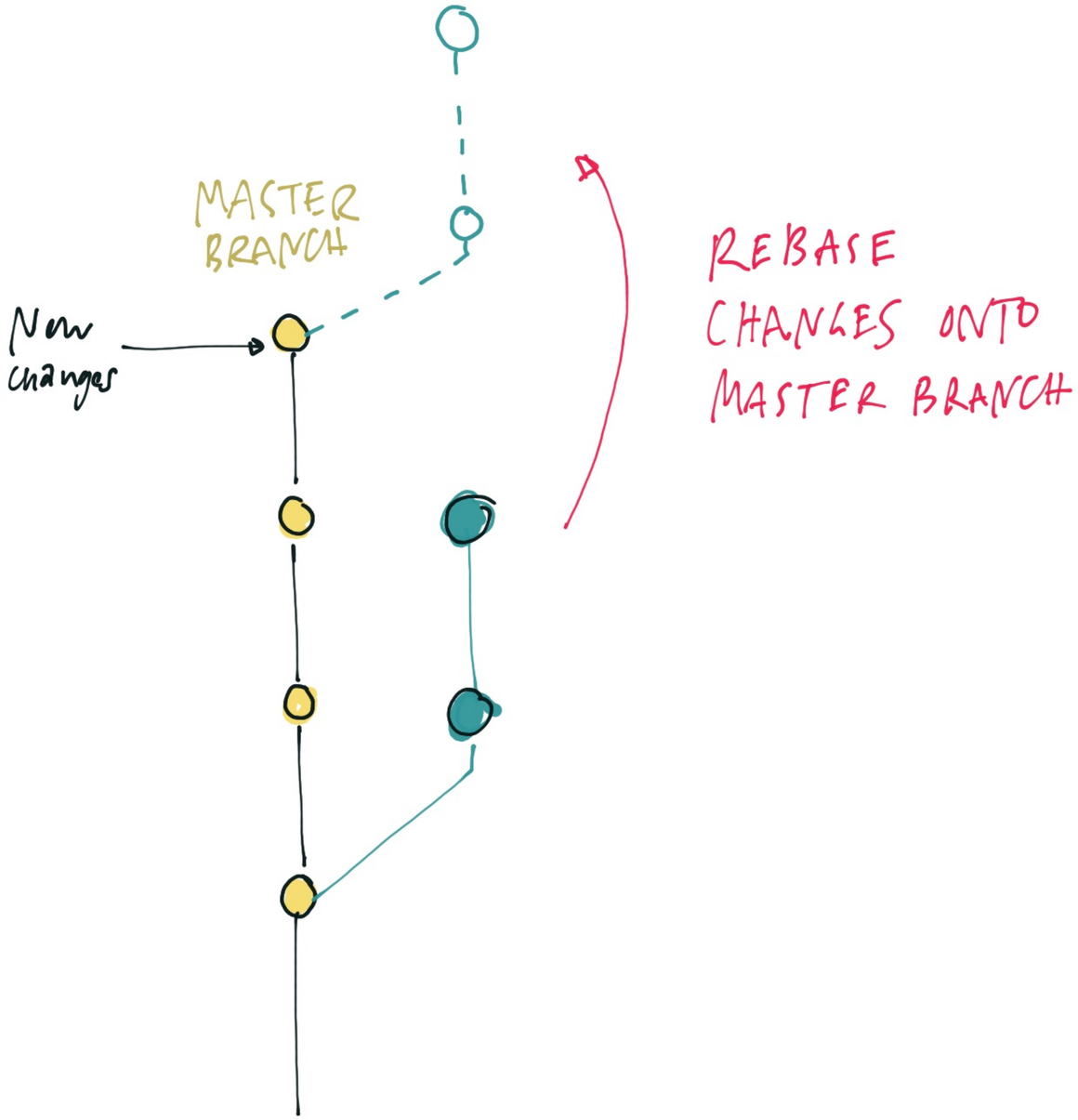


Git → Branches





Git → Rebase


MASTER BRANCH
New changes
REBASE CHANGES ONTO MASTER BRANCH

Git → Lingo

- Repository: Codebase (Project)
- Commit: Single entry in history
- Origin/Remote: Code on server (e.g. github)
- Local: Code on your machine
- Push/Pull/Fetch: Actions to get code from or upload to remote
- Master/Main: Main branch
- Merge: Bringing to branches with different code together
- Merge conflicts: When both branches during a merge have edited the same file merge conflicts appear.
- Rebase: Reapply commits on top of another branch

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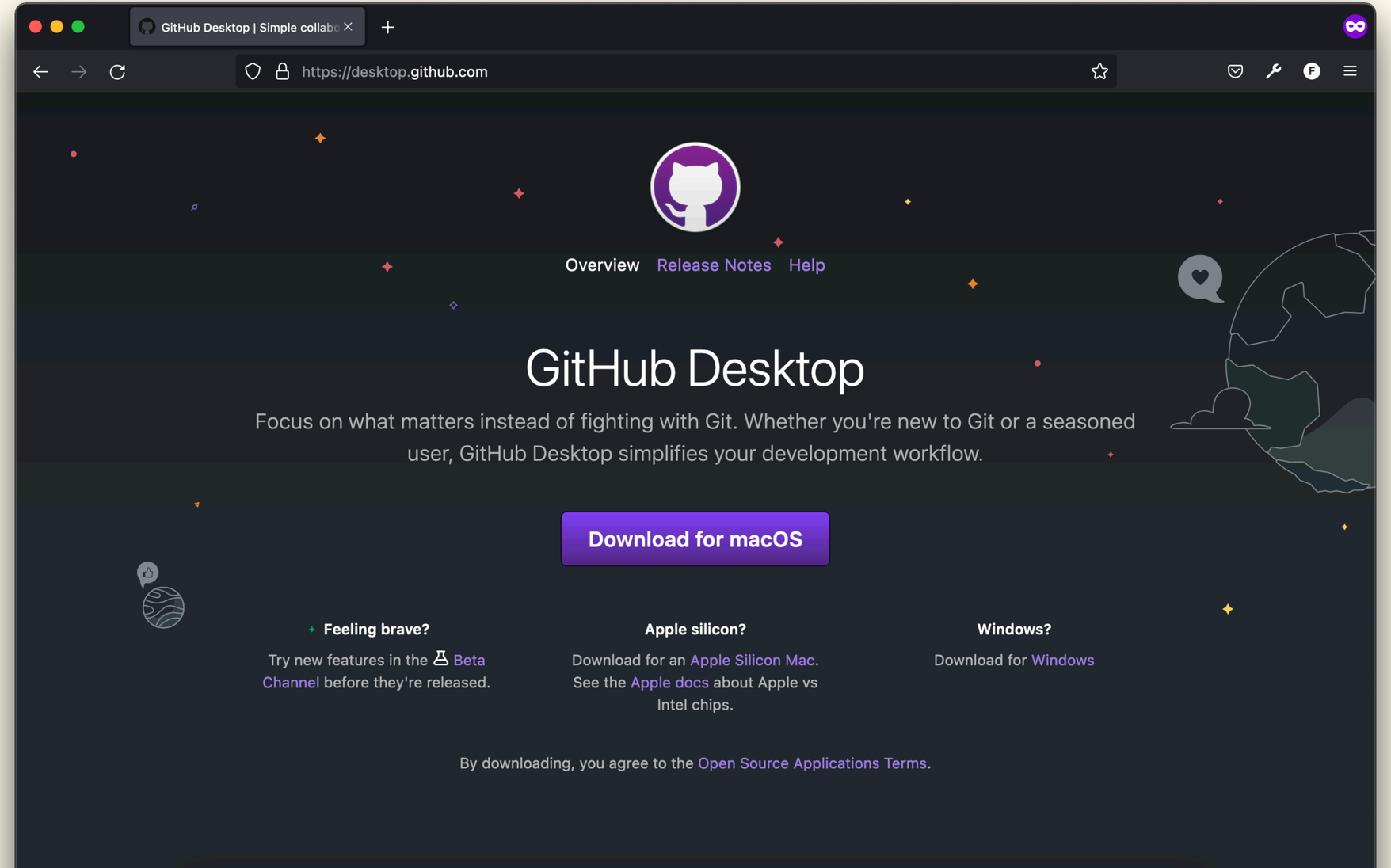
Github Desktop



Github Desktop
https://desktop.github.com/

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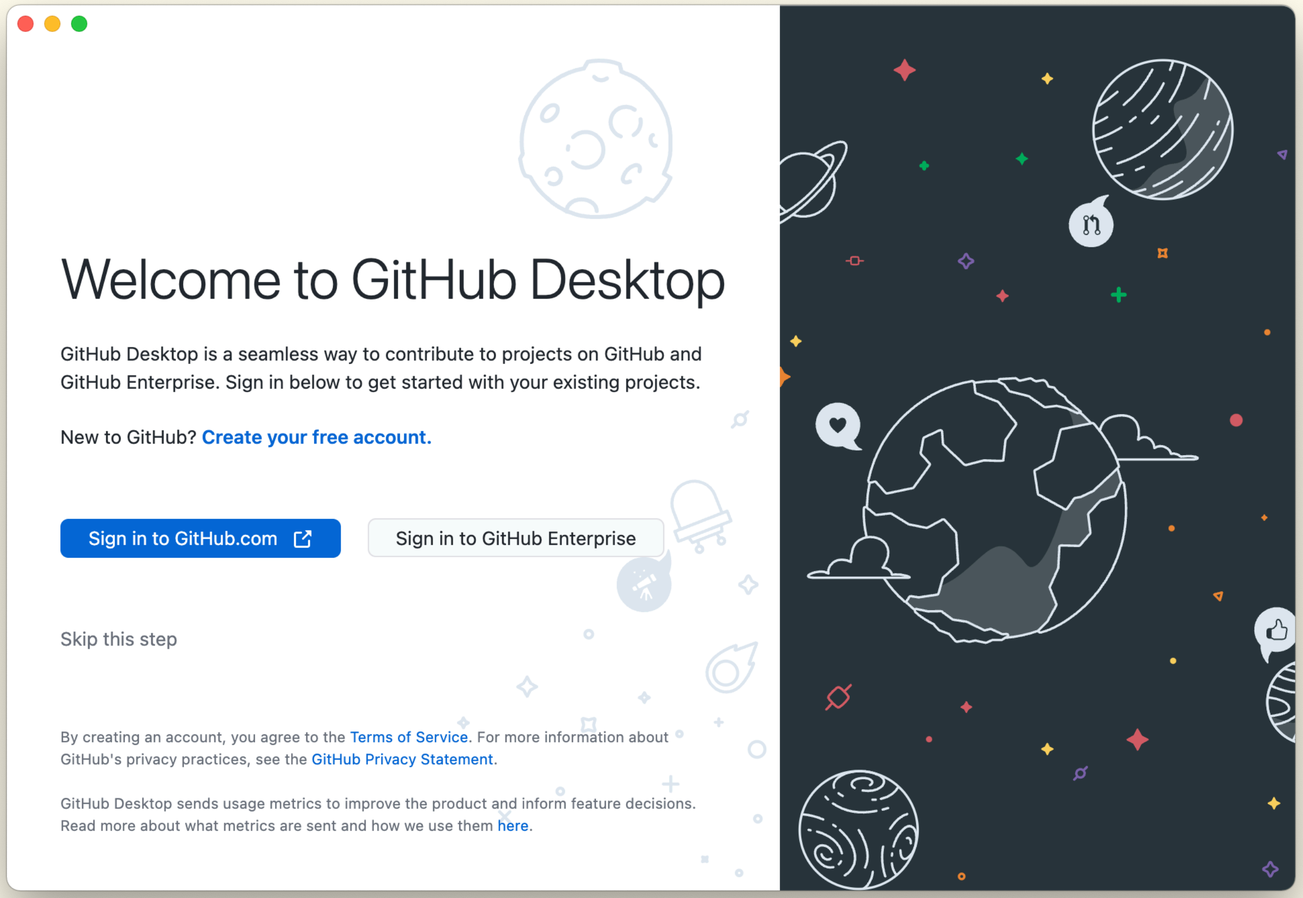
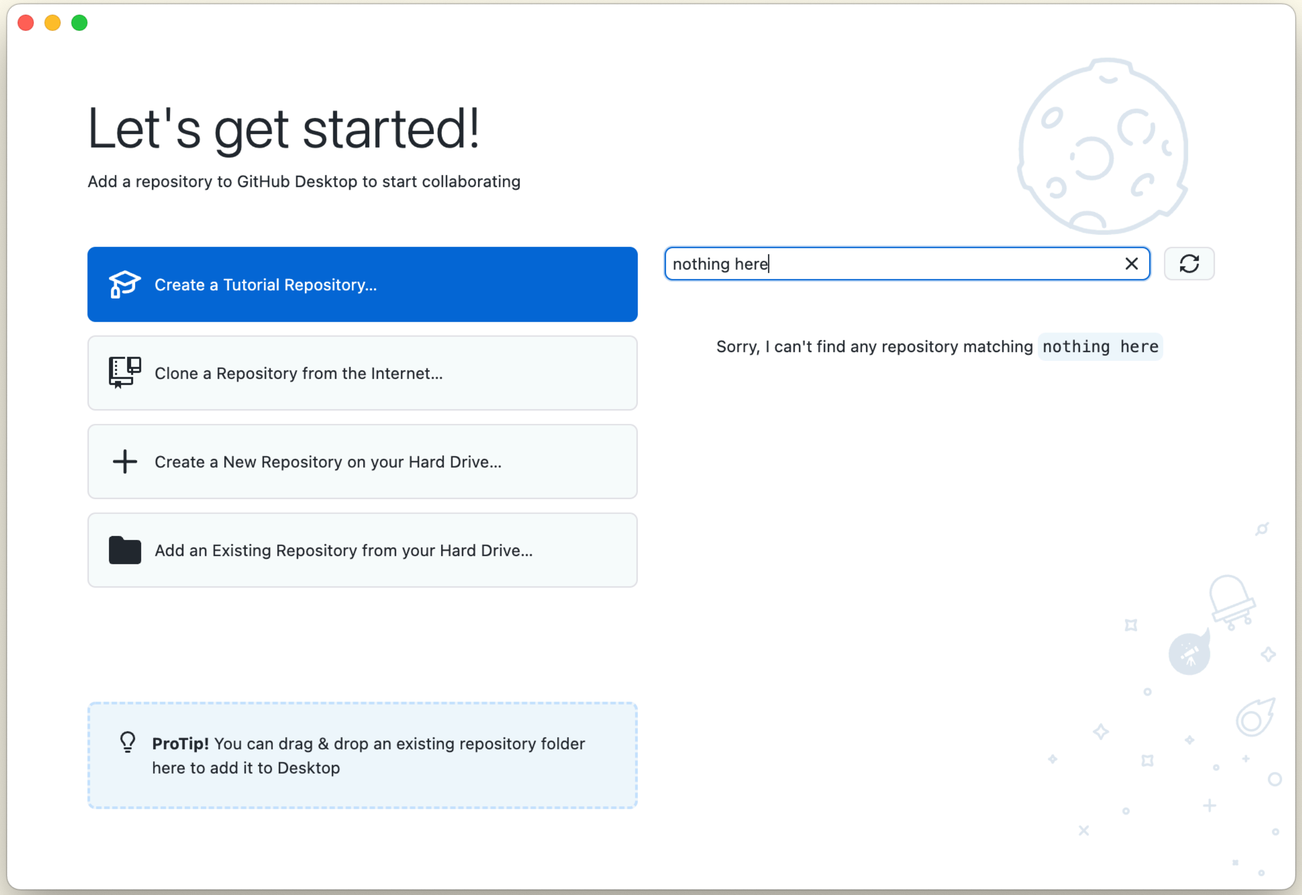
Github Desktop



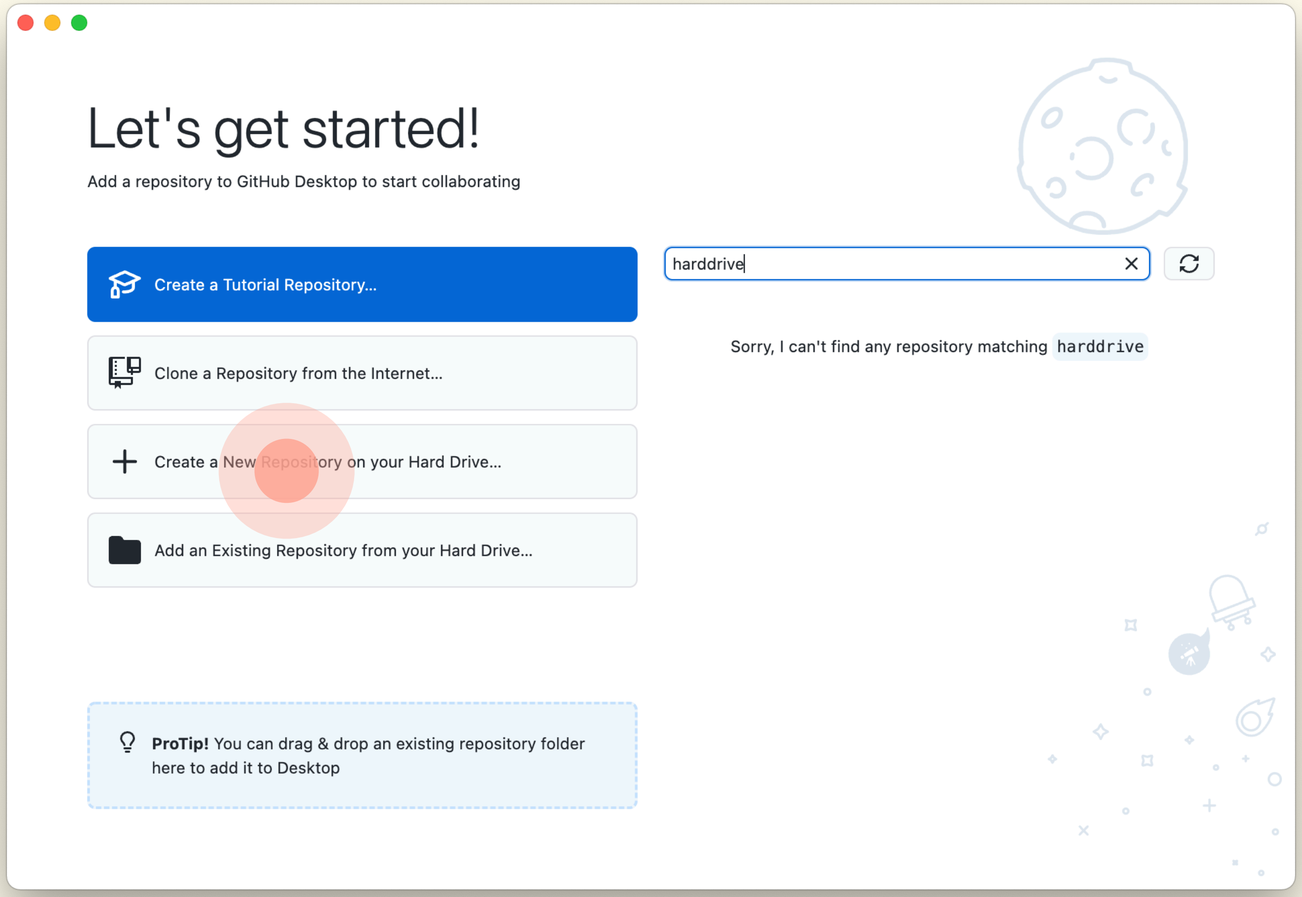
Tutorial Repository?

«We recommend completing the tutorial, but if you want to explore GitHub Desktop by creating a new repository, this guide will walk you through using GitHub Desktop to work on a Git repository.»

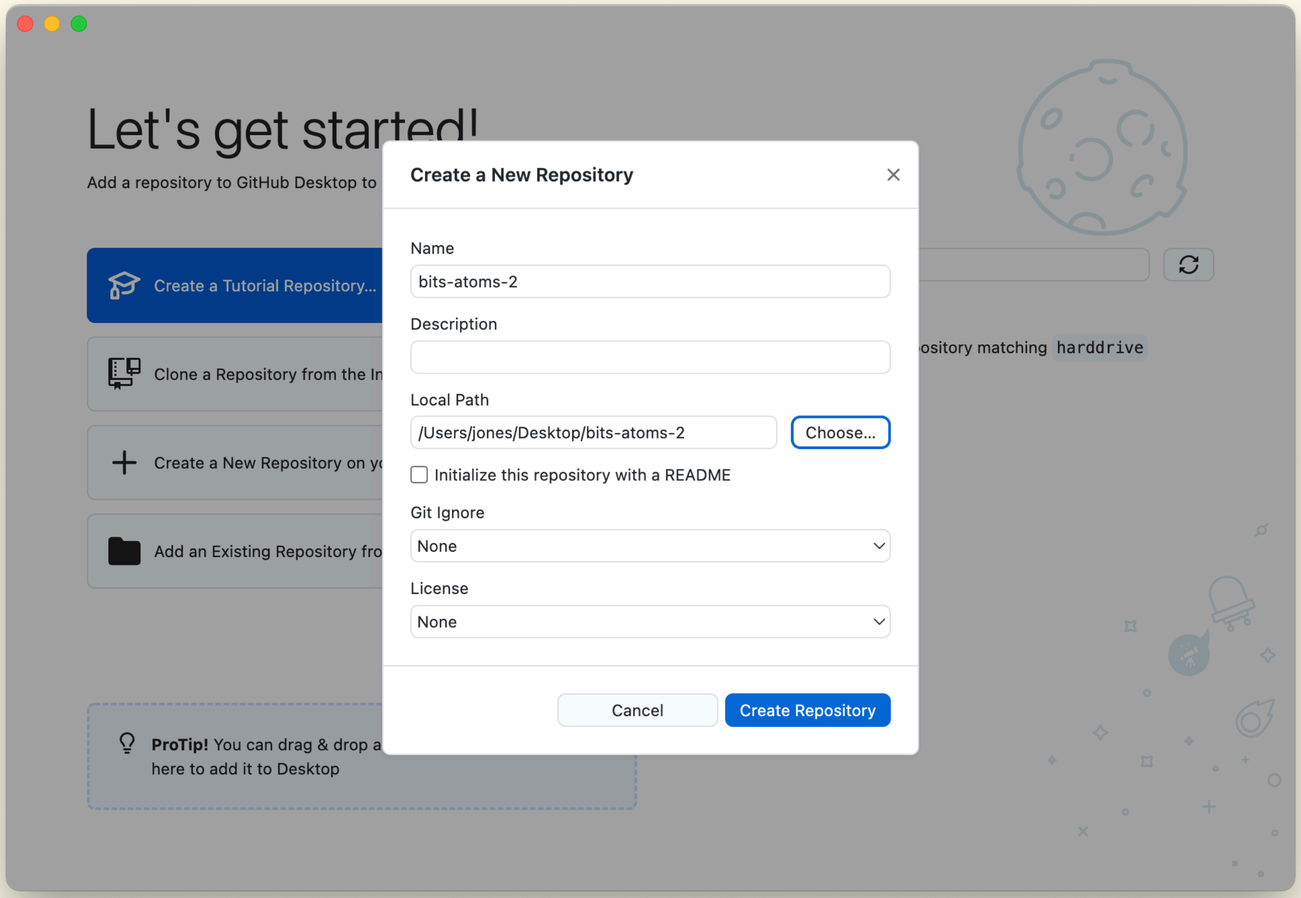


https://docs.github.com/cn/desktop/installing-and-configuring-github-desktop/overview/creating-your-first-repository-using-github-desktop

Create repository from harddrive

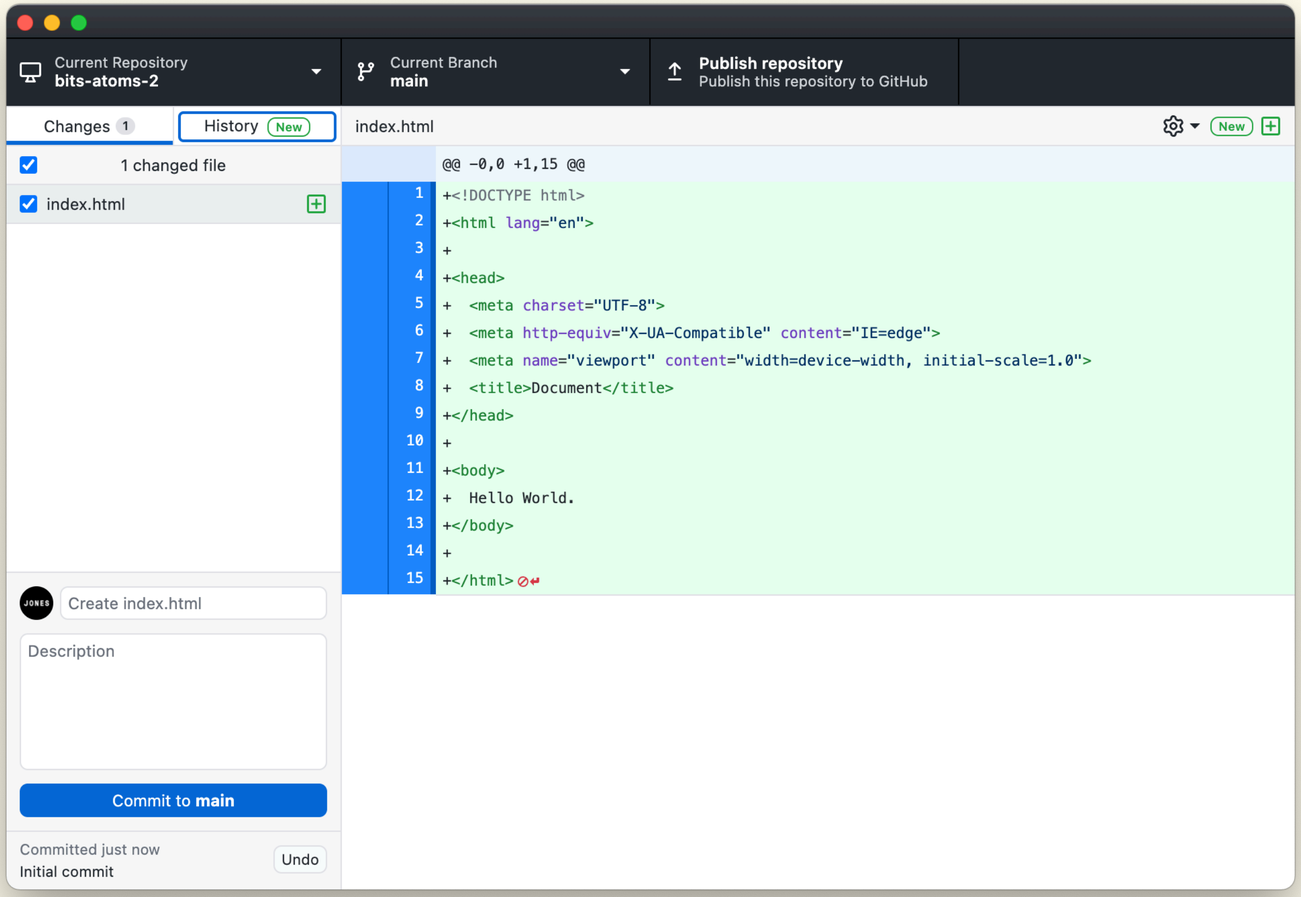


Create repository from harddrive



Try to find a useful location on your machine (folder). Moving projects will break linkage with git client.

Check changes



When moving files into git folder or changing files, they will appear in your GitHub desktop.

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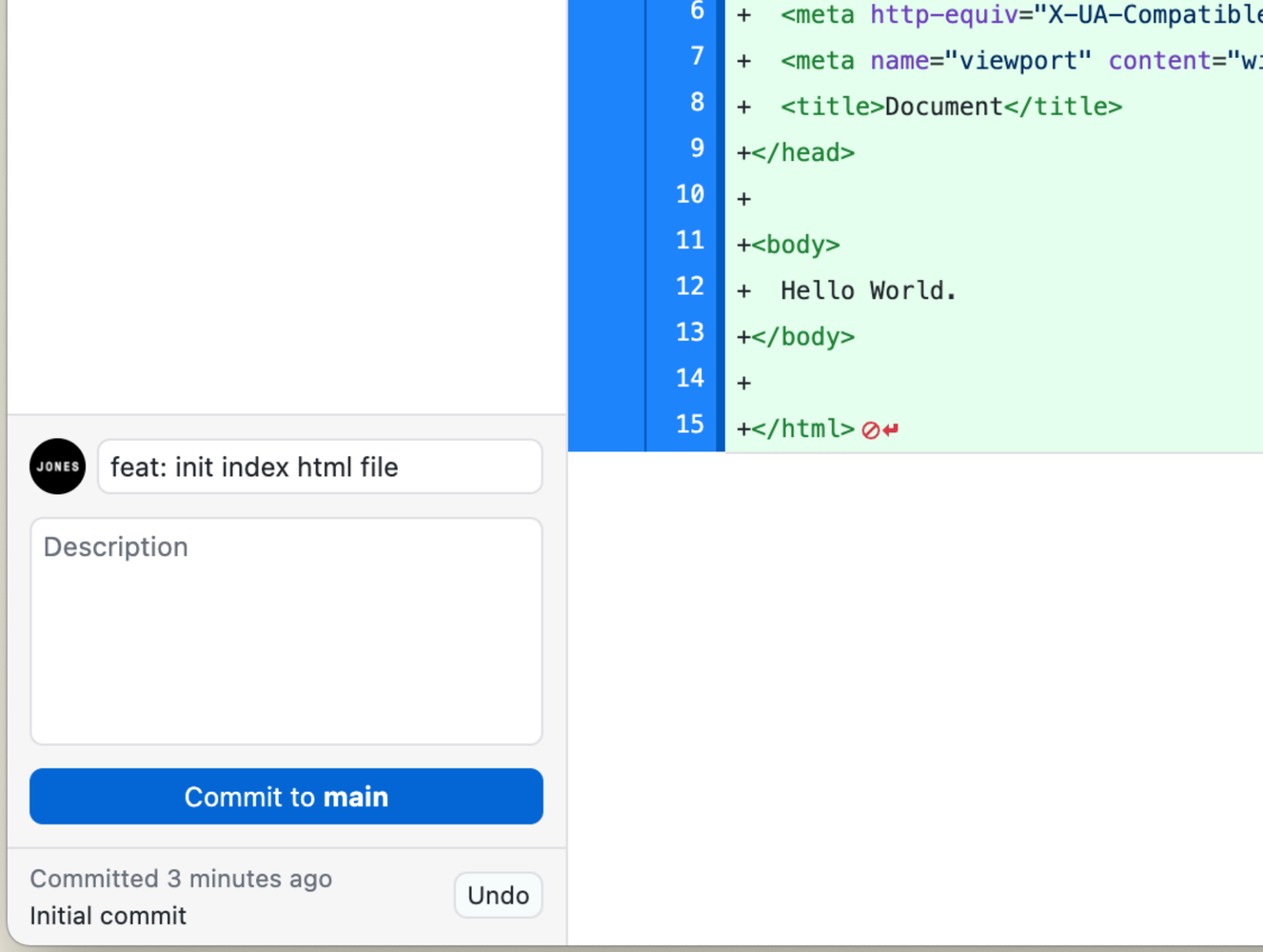
First commit



Describe your changes and commit them.

https://www.conventionalcommits.org/en/v1.0.0/

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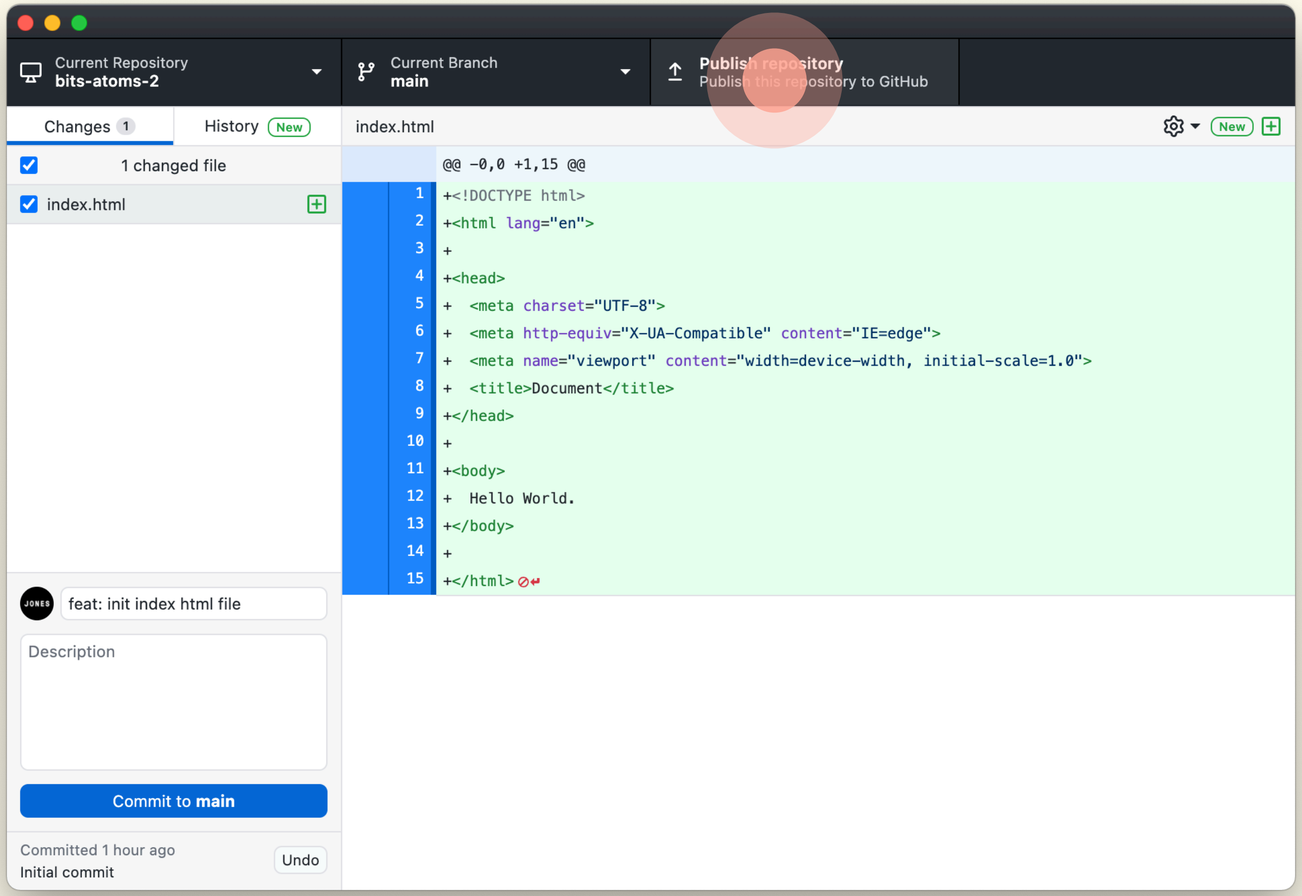
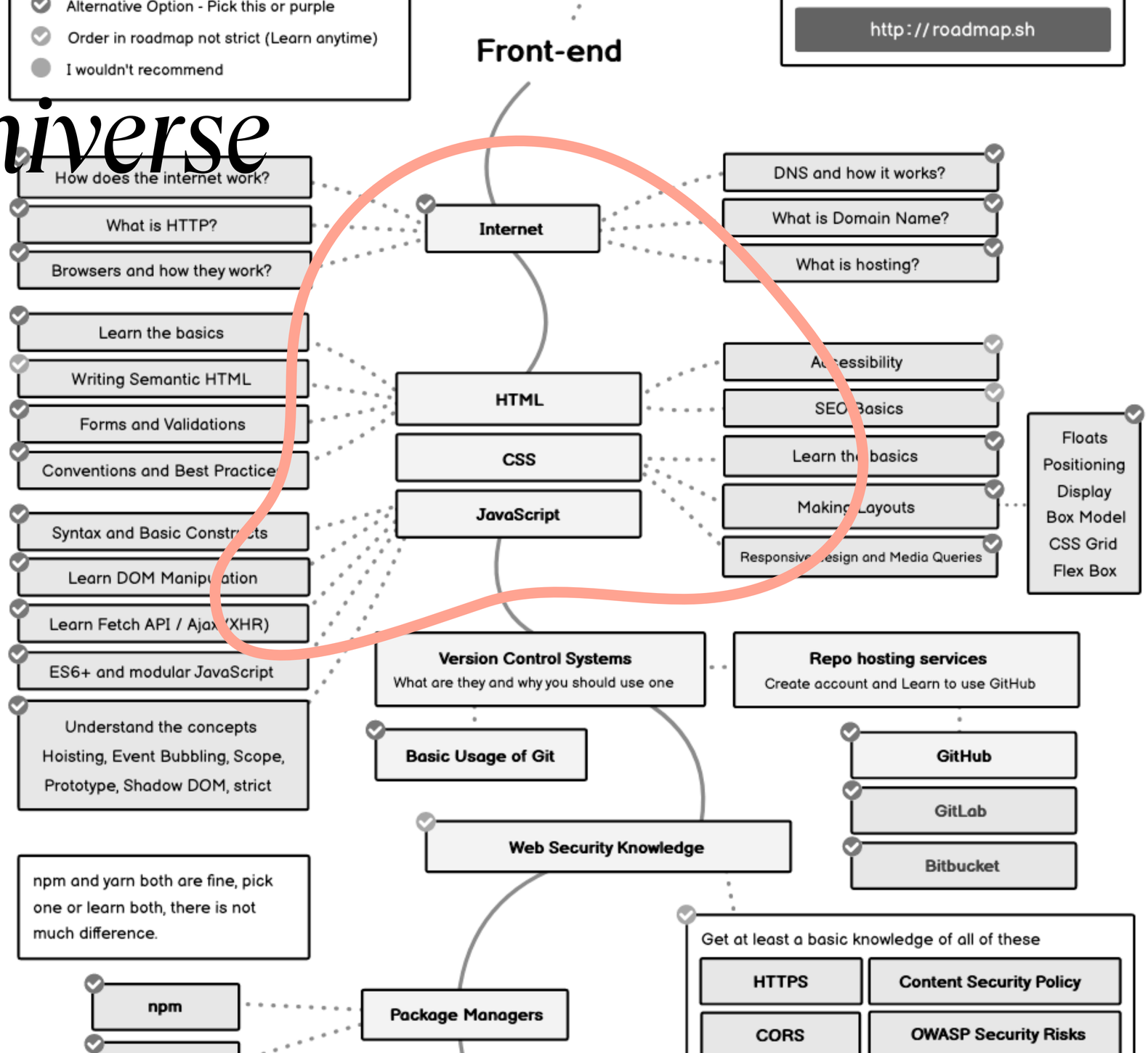
Publish (& push)



The frontend universe



https://roadmap.sh/frontend

What is CSS?

- Cascading Style Sheet
- Styling HTML elements
  - Position
  - Color
  - Appearance
  - Etc.

CSS Selectors

```css
a { color: blue; } /* Element */
.wrapper { width: 100%; }  /* Class */
#content { margin-left: 1em; }  /* ID */
a:hover { text-decoration: underline; }  /* Pseudo Class */
div:before { content: "..."; }  /* Pseudo Element */
```

CSS: Inline, Internal or External

```html
<p style="text-align:right; color:green; font-family: 'times new roman'; margin-left:15px;">
  This is just a simple,
  inline formatted paragraph.
</p>
```

Inline css

```html
<head>
  <style type="text/css">
    body {
      background-image: url("img/image.png");
    }

    hr {
      color: #efefef;
    }

    p {
      margin-left: 15px;
    }
  </style>
</head>
```

Internal css

```html
<head>
  .......
  <link rel="stylesheet" type="text/css" href="external_file.css" />
  .......
</head>
```

External css

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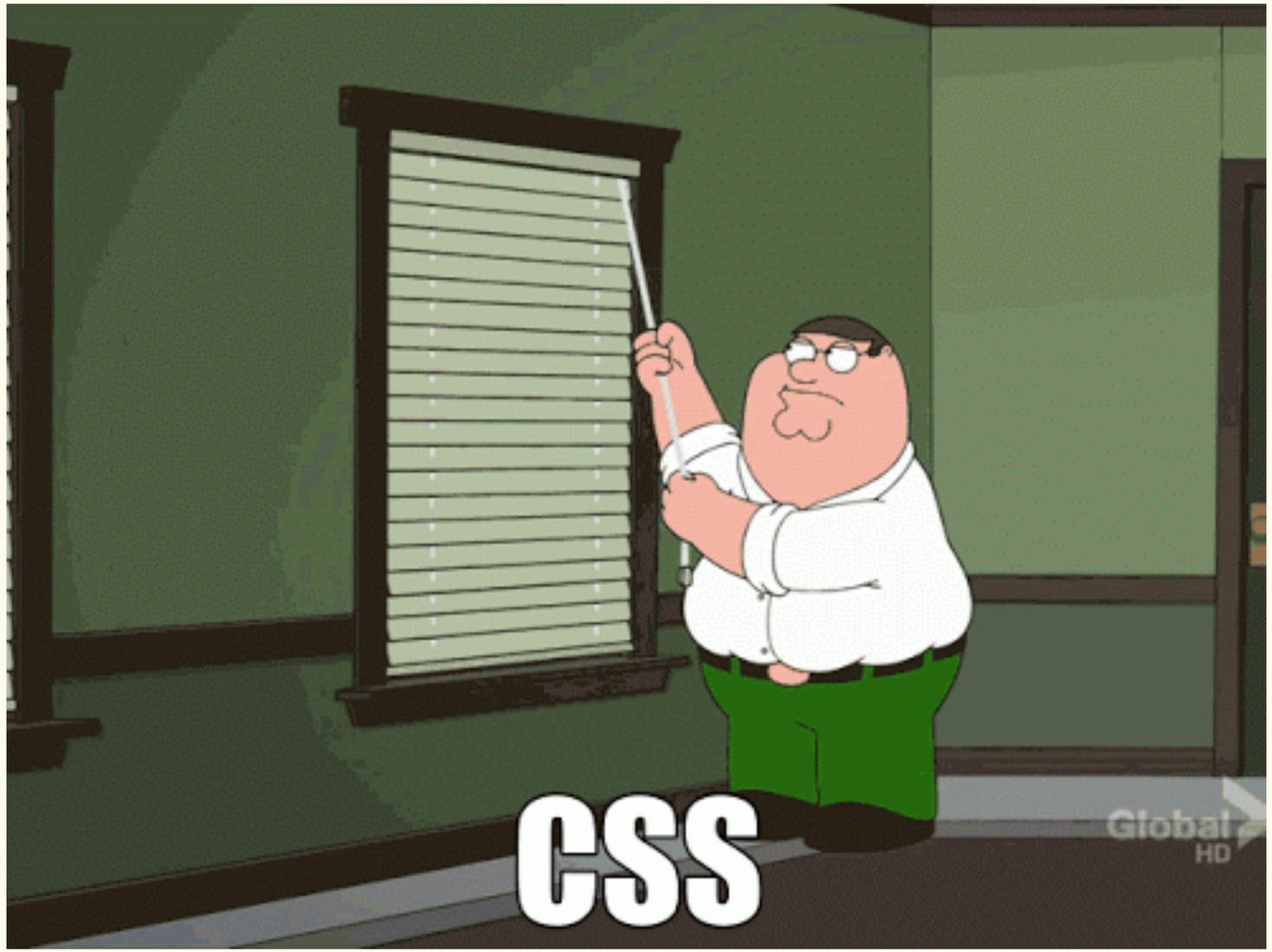
CSS



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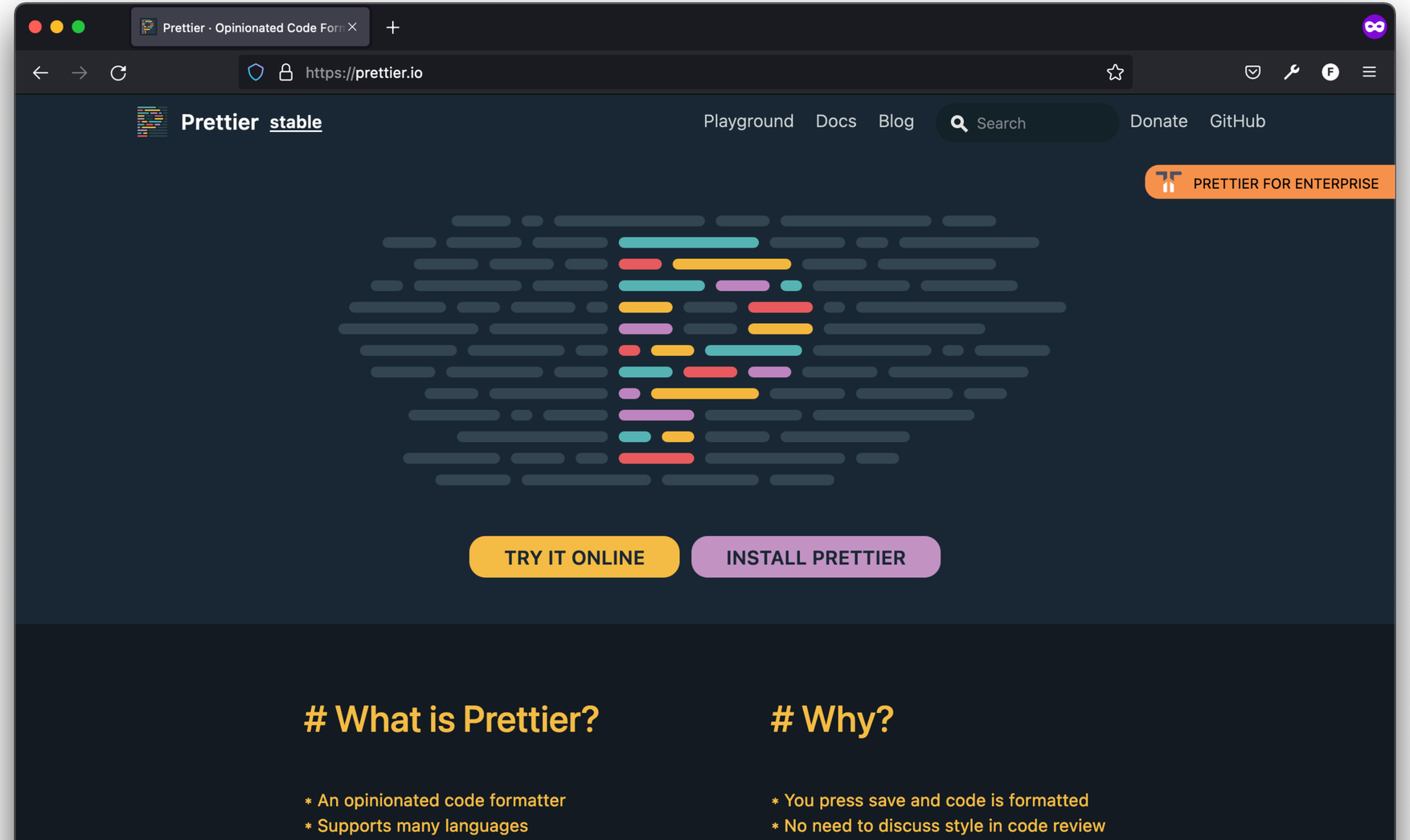
Clean Code!

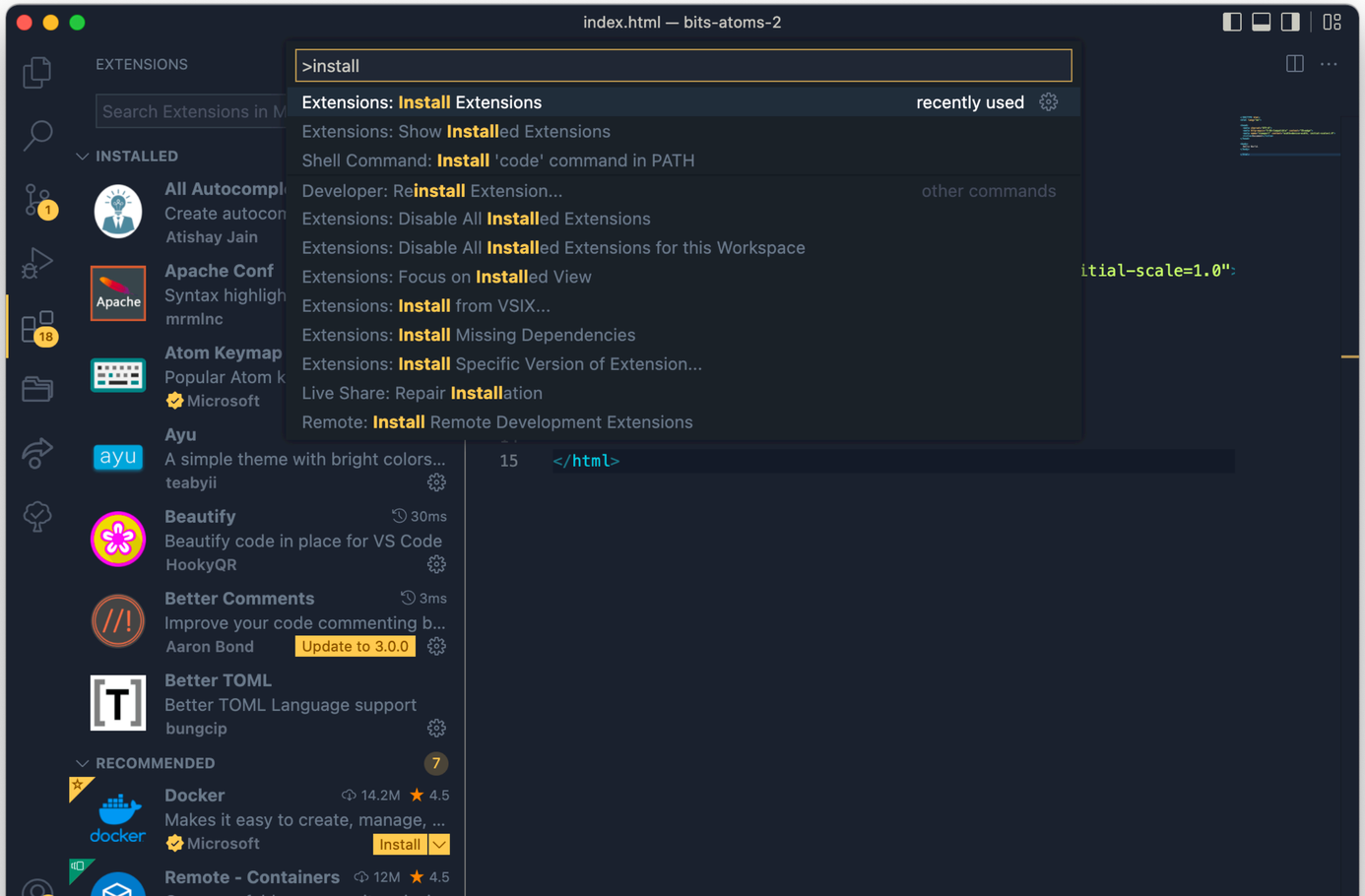


https://prettier.io/

Plugins in Visual Studio Code

View → Command Palette
Shortcut: *Shift + Command + P*

Type: *Install extensions*



https://prettier.io/