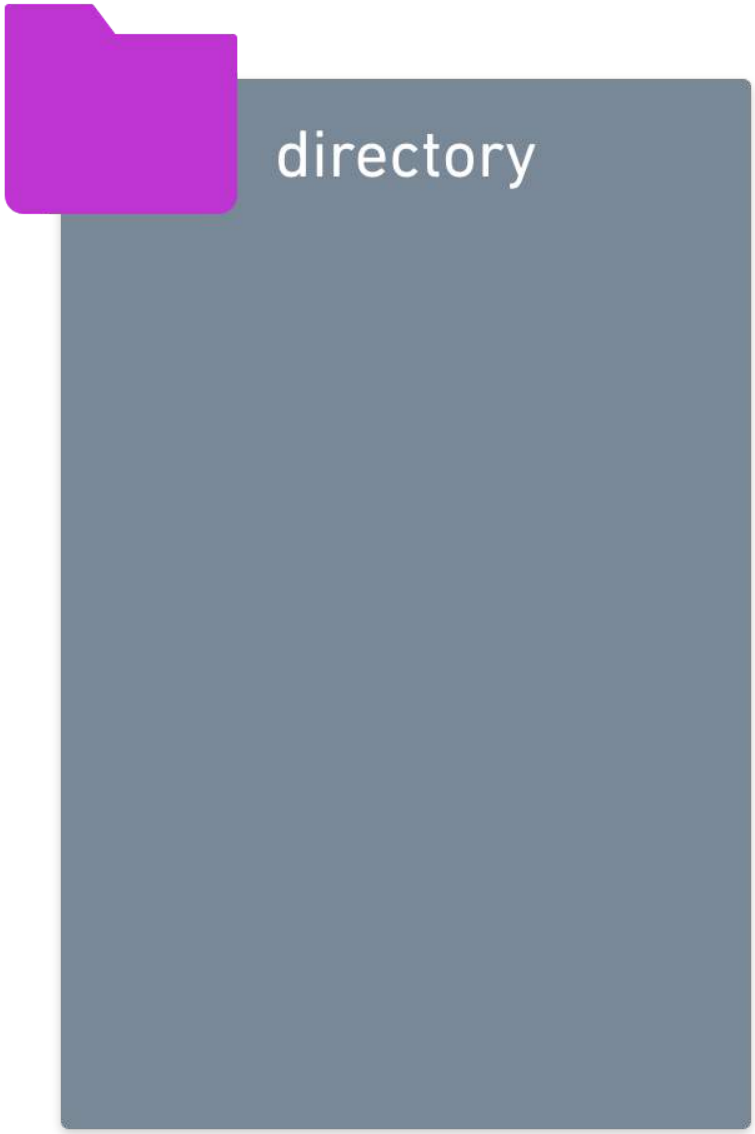
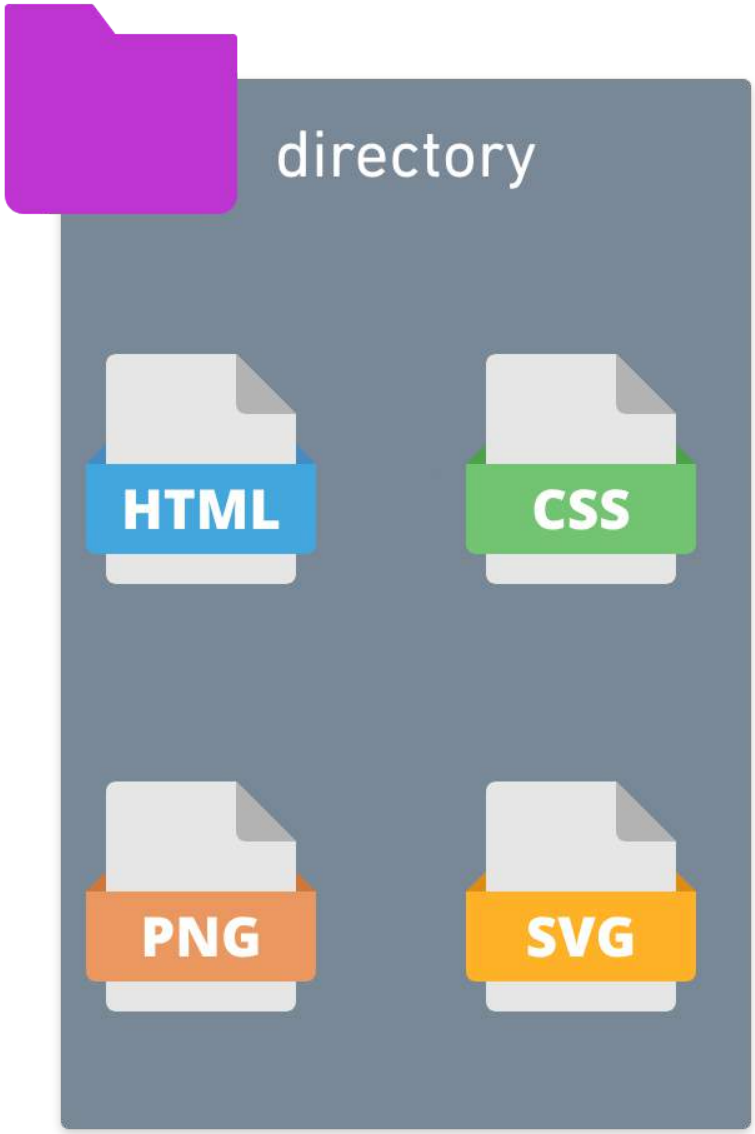
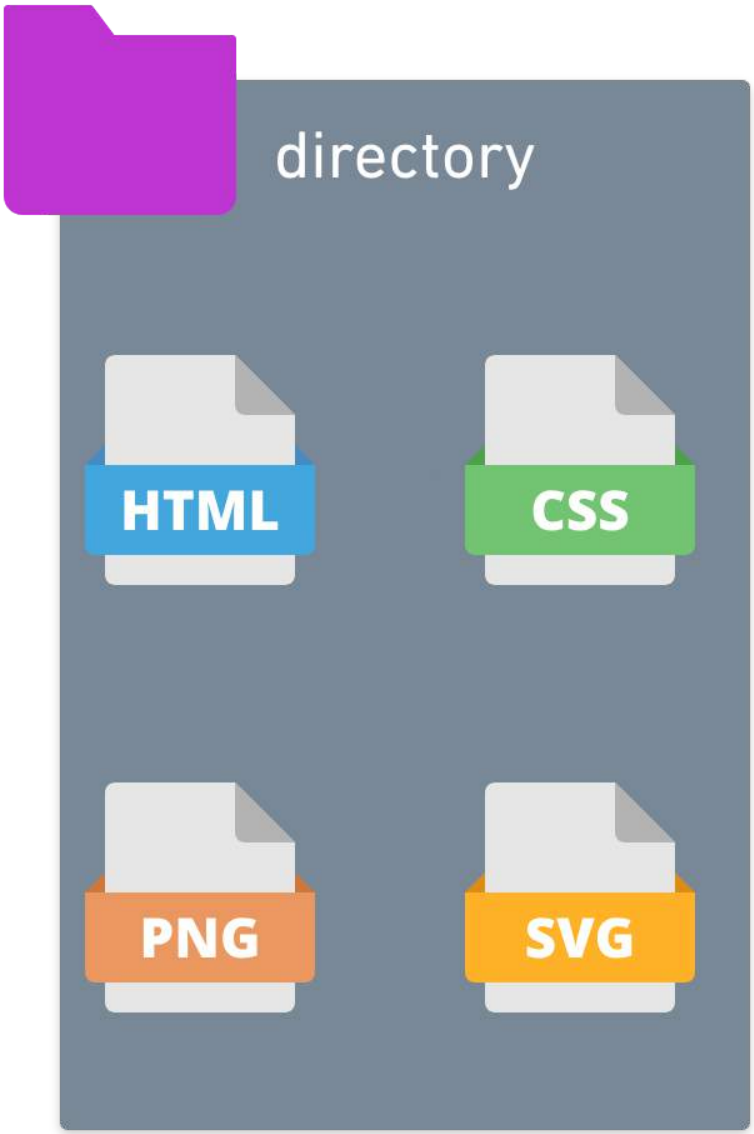
Agenda

1. Understanding git
2. Getting started with git + GitHub
3. Getting started with VS Code
4. VS Code + git + GitHub

Understanding git


directory

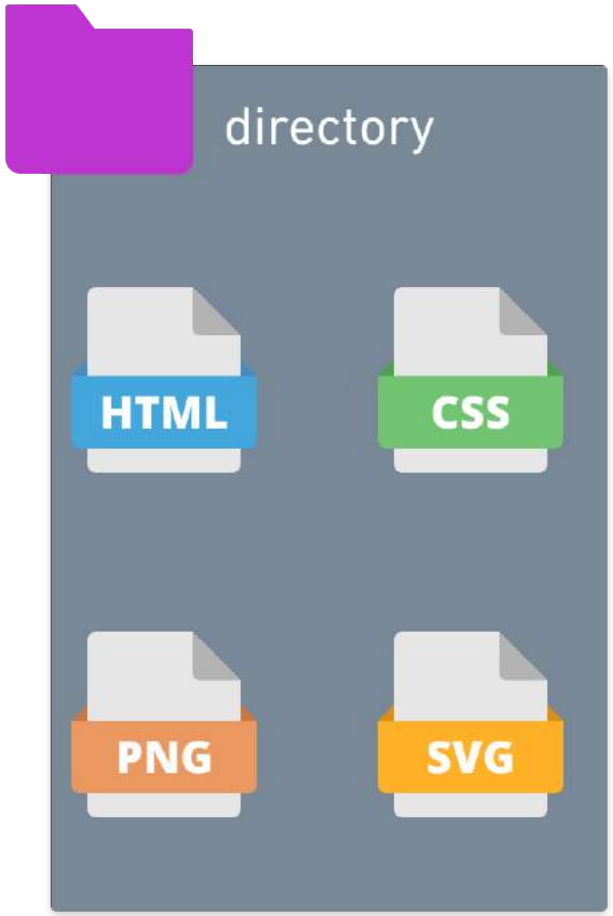

directory
HTML
CSS
PNG
SVG



index.html

styles.css

Without version control



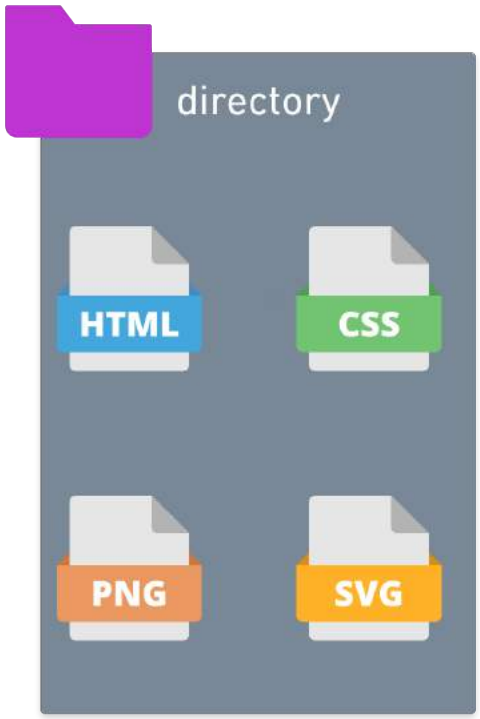
index.html

index_v2.html

styles.css

styles_v2.css

Without version control



index.html

index_v2.html

styles.css

styles_v2.css

styles_v3.css

Without version control

index.html

index_v2.html

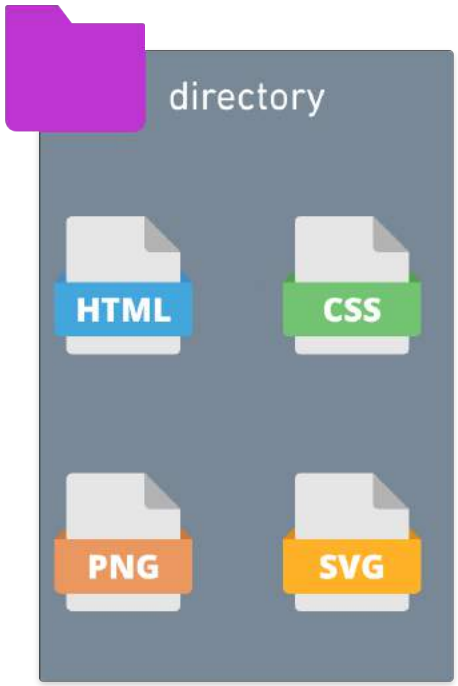
index_final.html

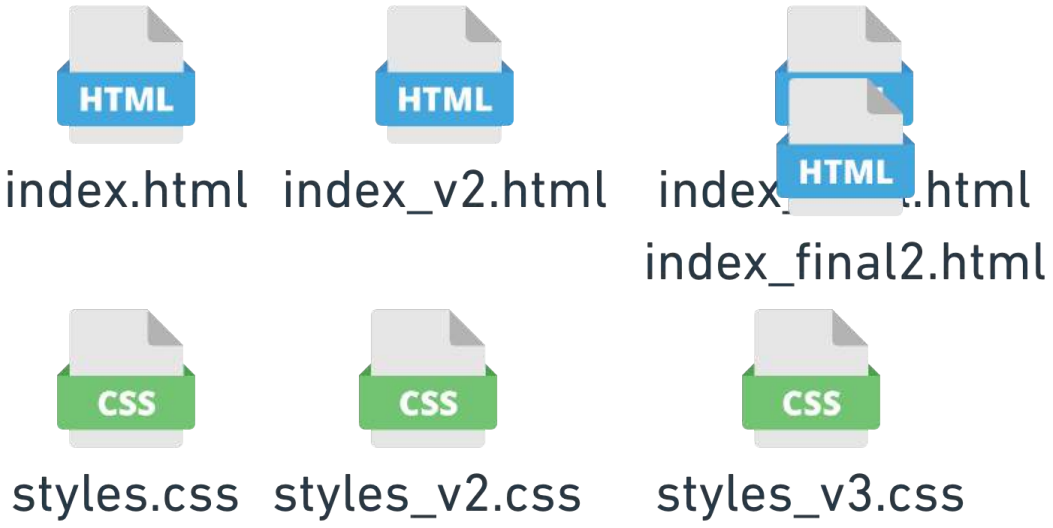
styles.css

styles_v2.css

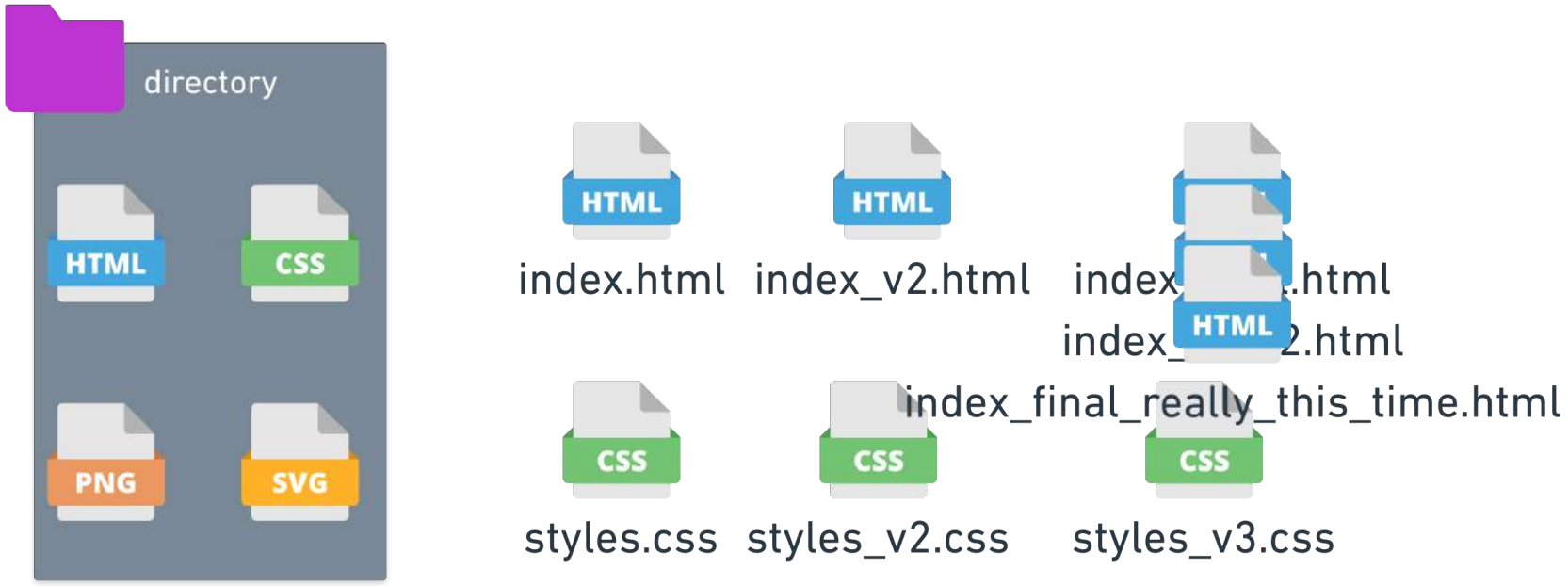
styles_v3.css

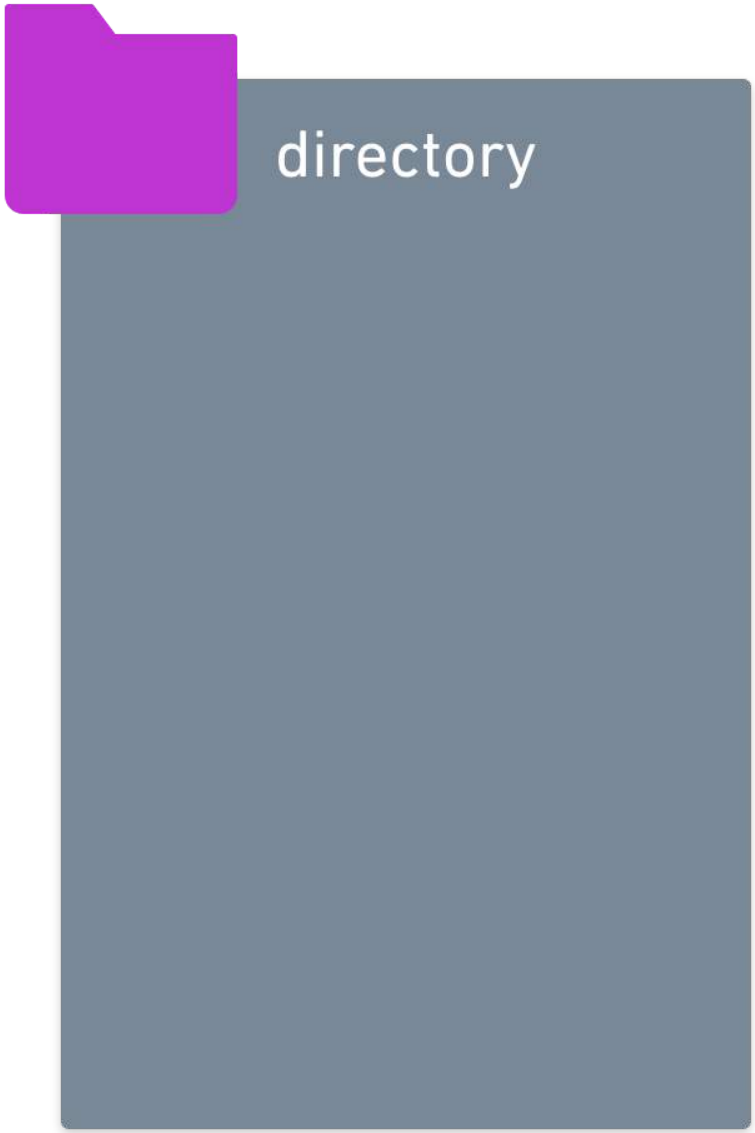
Without version control



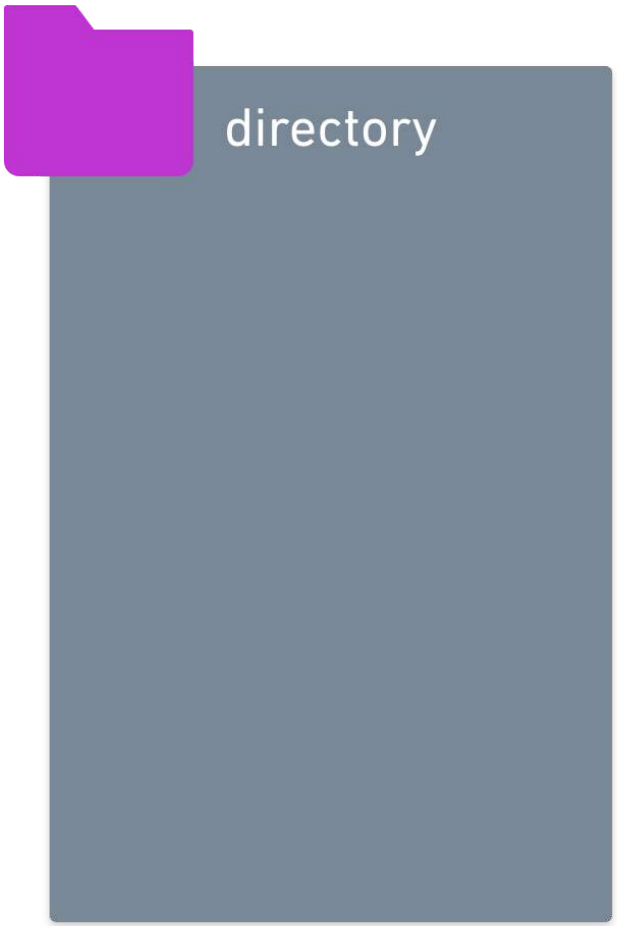


Without version control



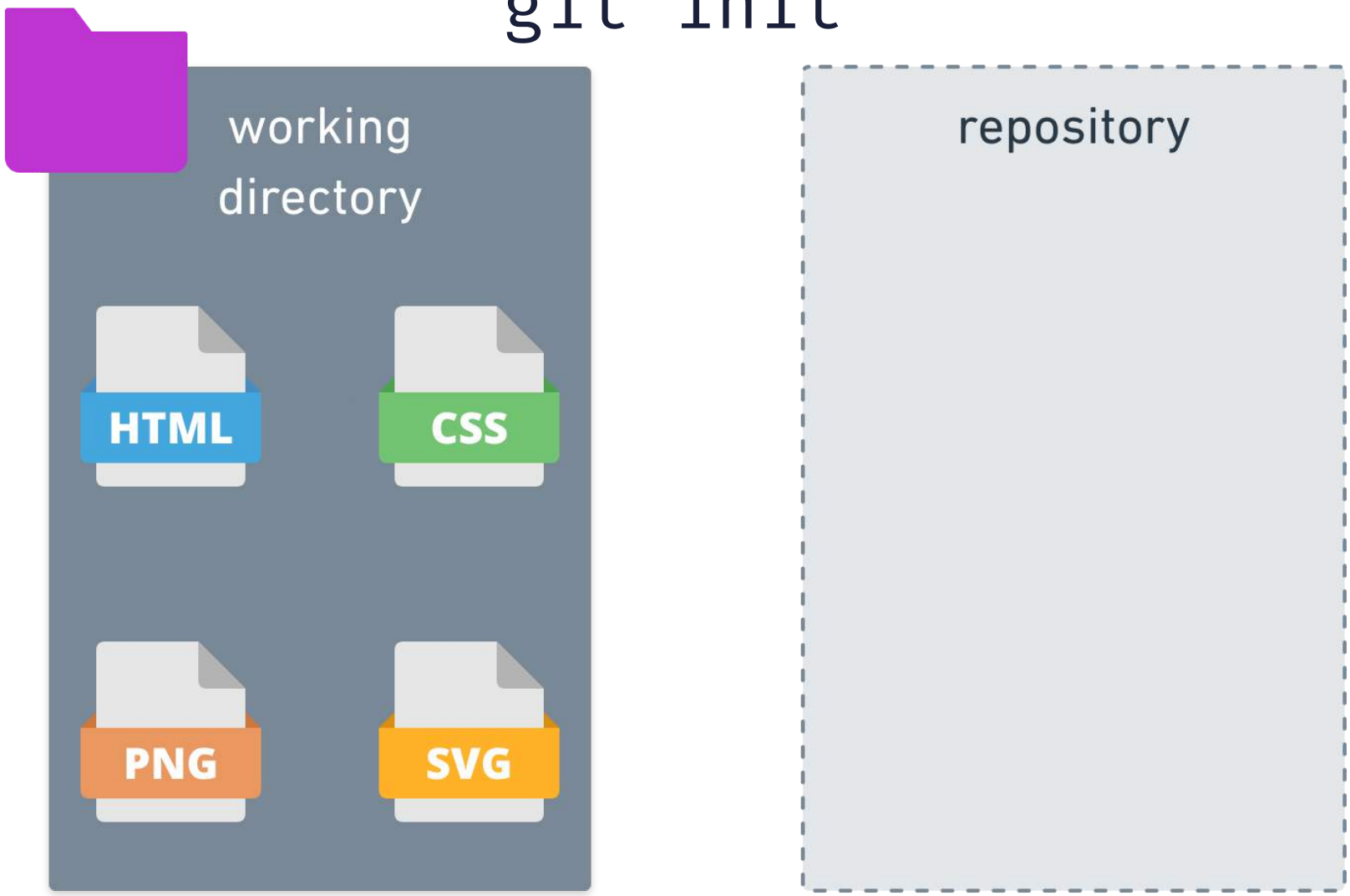

directory

git init



git init

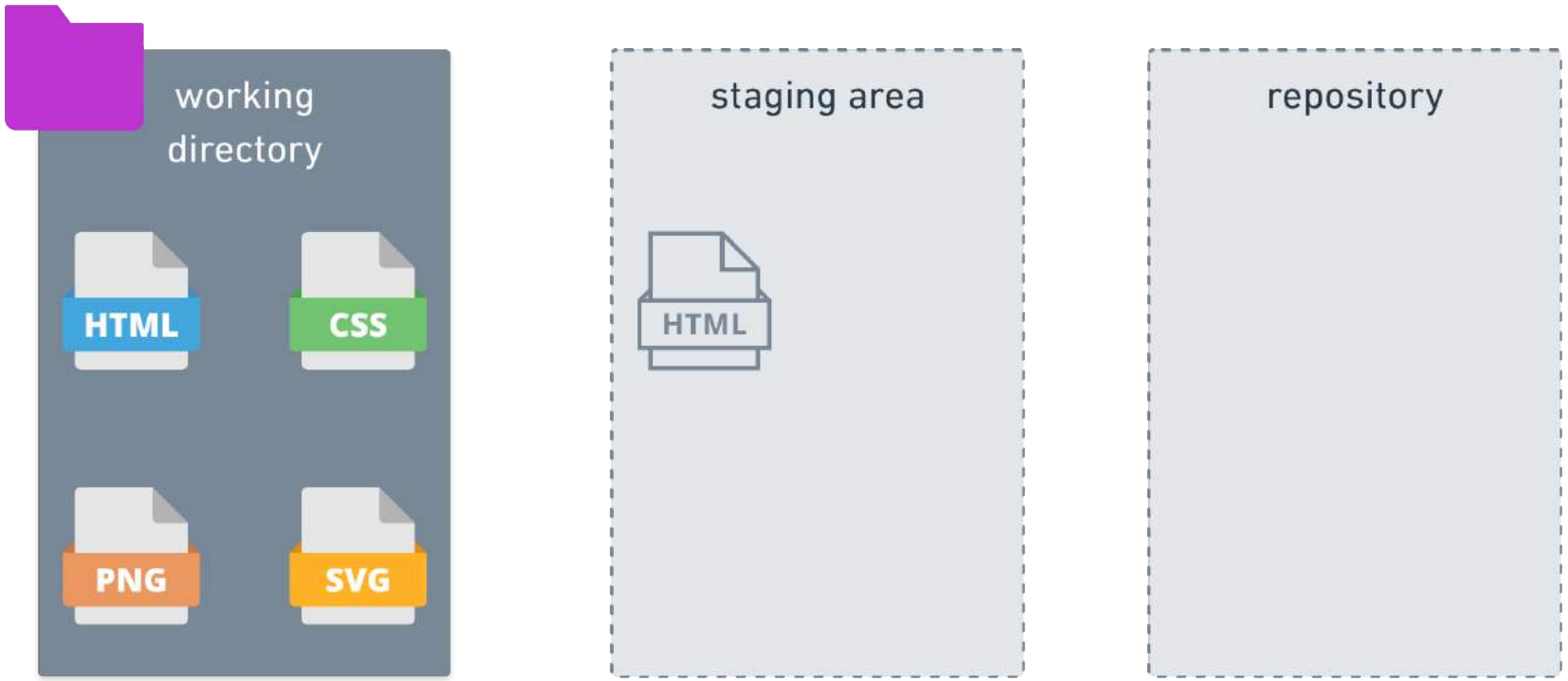
git init



git add

working
directory
HTML
CSS
PNG
SVG
staging area
repository

git add


working
directory
HTML
CSS
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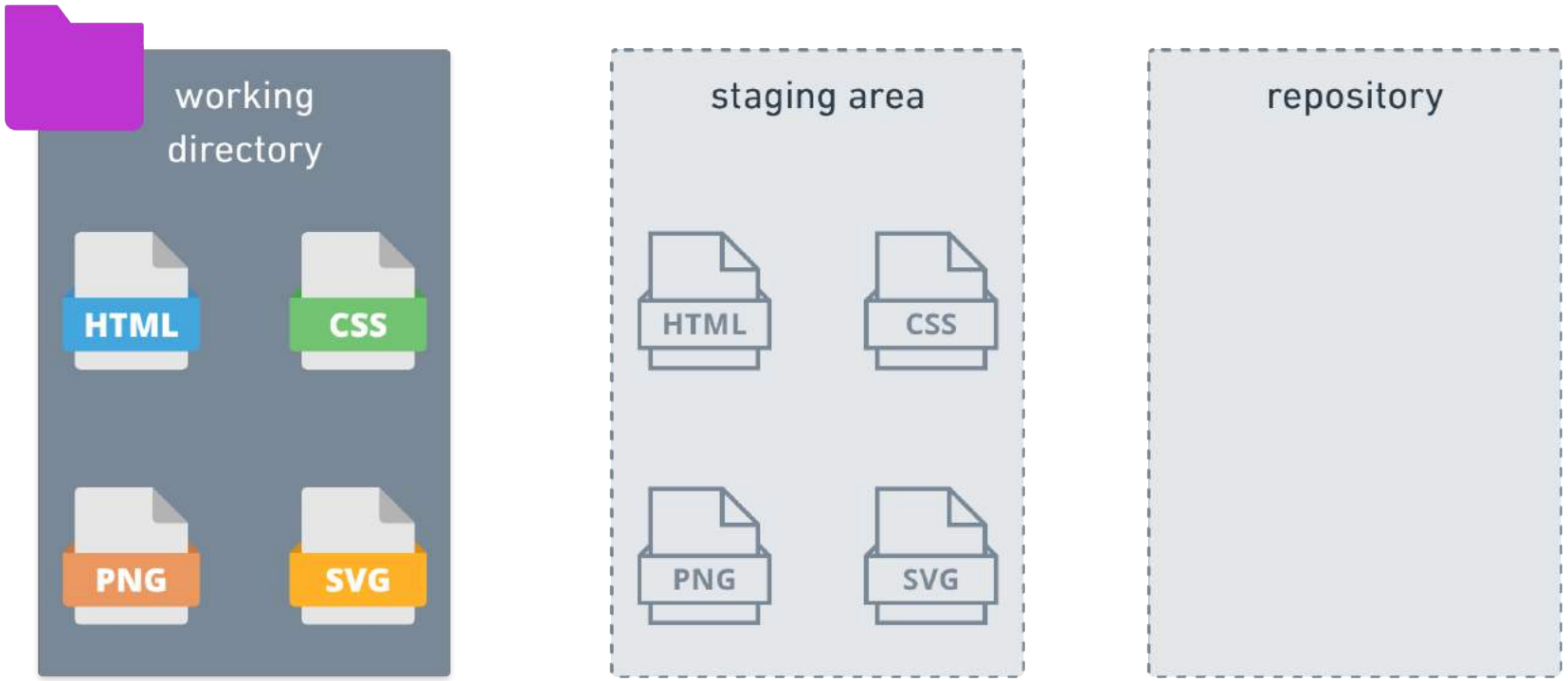
staging area
HTML
repository

git add


working
directory
HTML
CSS
PNG
SVG
staging area
HTML
CSS
PNG
SVG
repository

git commit

working
directory
HTML
CSS
PNG
SVG
staging area
repository
HTML
CSS
PNG
SVG

Q&A on git workflow or concepts

Git ! = *GitHub*

Git ! = *GitHub*

Getting started with git + GitHub

- Install/verify git
- Set up your username and email
- Get/verify your SSH keys

http://bit.ly/431-git

Getting started with VS Code

- Interface basics
- Update some helpful settings of VS Code
- Add some useful extensions to VS Code

Extensions

1. **Beautify** by HookyQR
2. **Live Server** by Ritwick Dey
3. **Live Sass Compiler** by Ritwick Dey
4. **Intellisense for CSS class names in HTML** by Zignd
5. **Path Intellisense** by Christian Kohler
6. **scss-scan** by aaronphy
7. **minify** by HookyQR
8. **Auto Rename Tag** by Jun Han
9. **Bracket Pair Colorizer** by CoenraadS

- What does this extension do?
- What problem does it solve?
- How is it helpful?

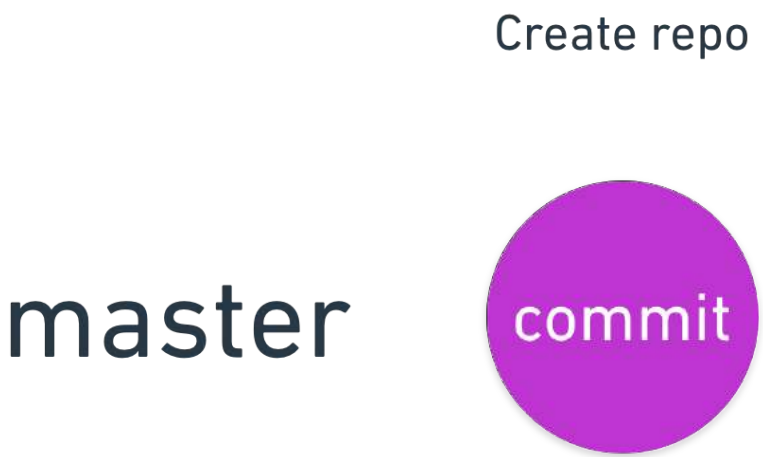
VS Code Q&A

VS Code + git

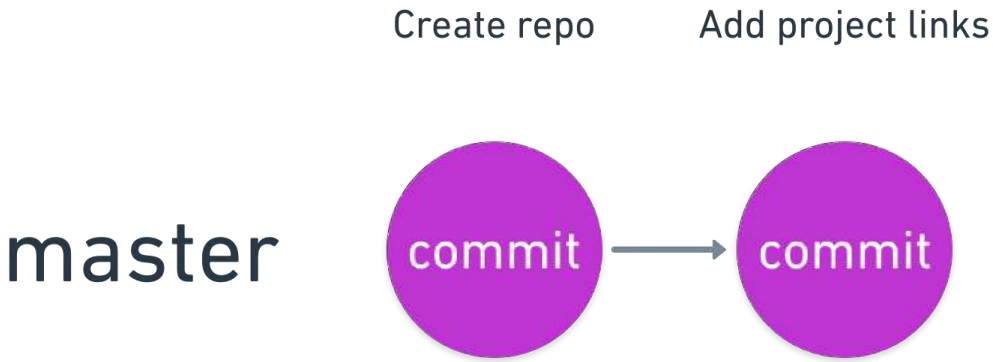
Git branches

`git branch`

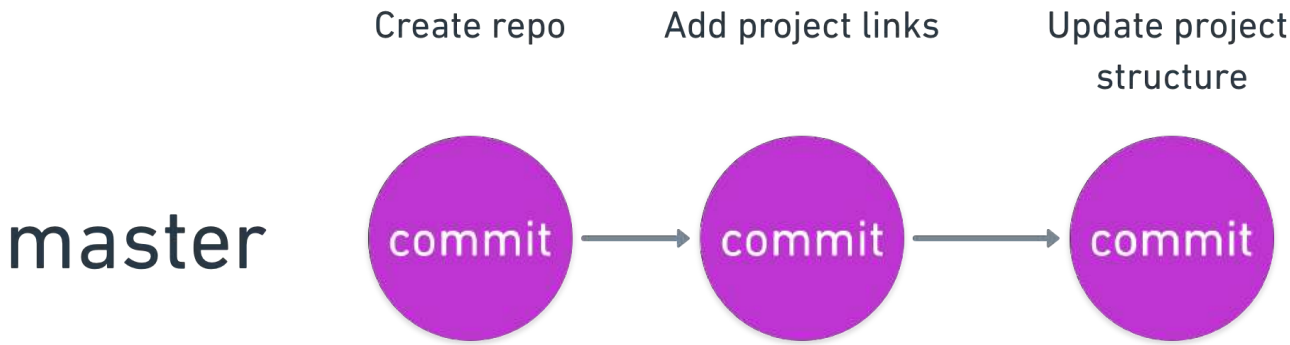
Git branches



Git branches



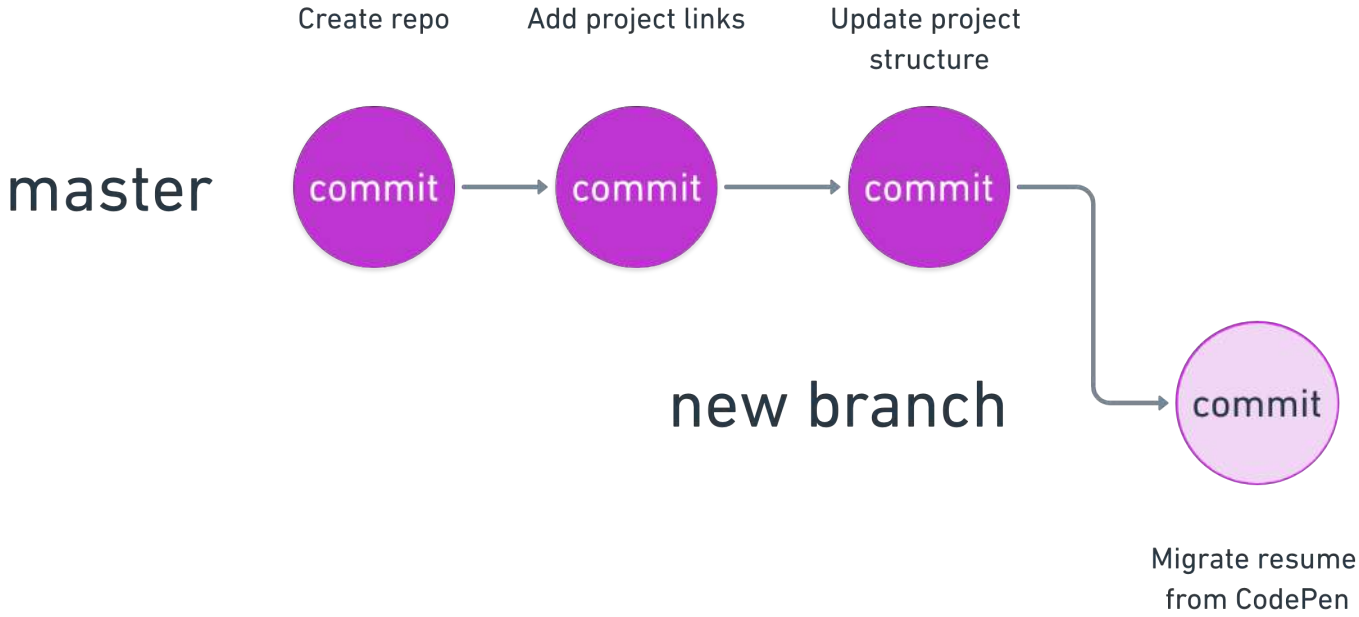
Git branches



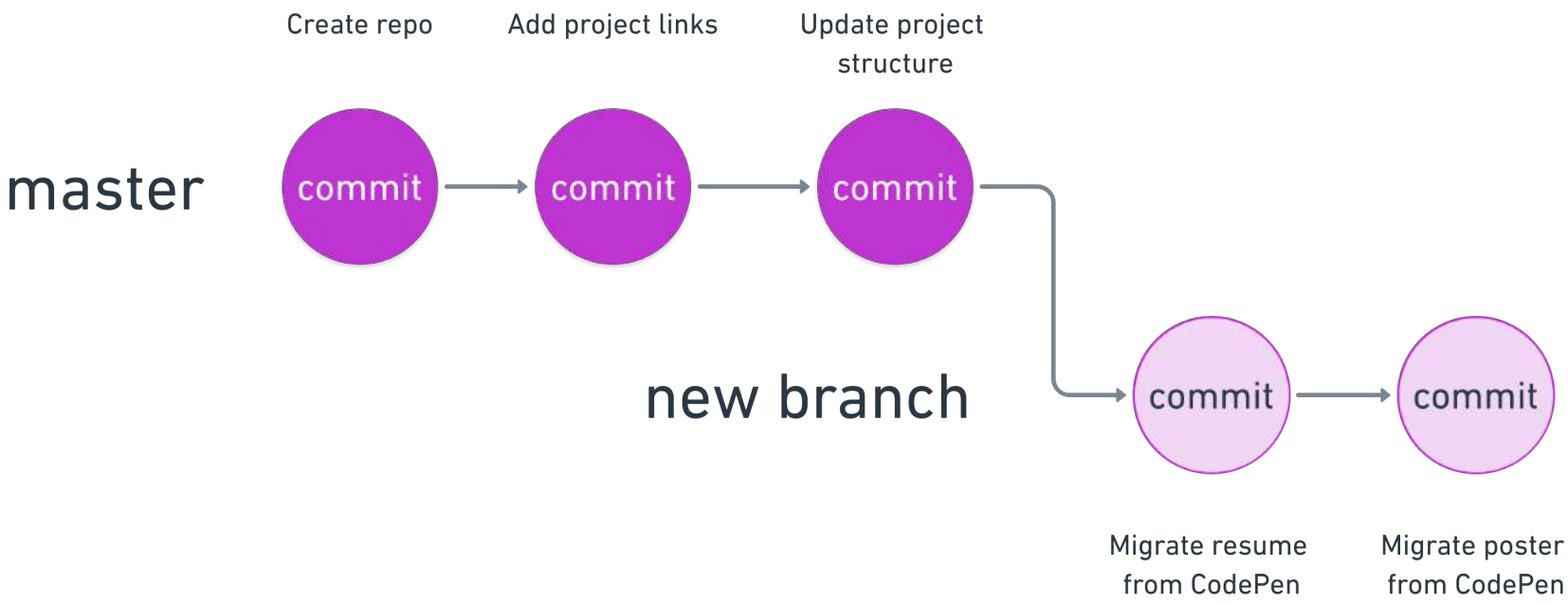
Git branches

```
git branch {new-branch-name}
git checkout {new-branch-name}
```

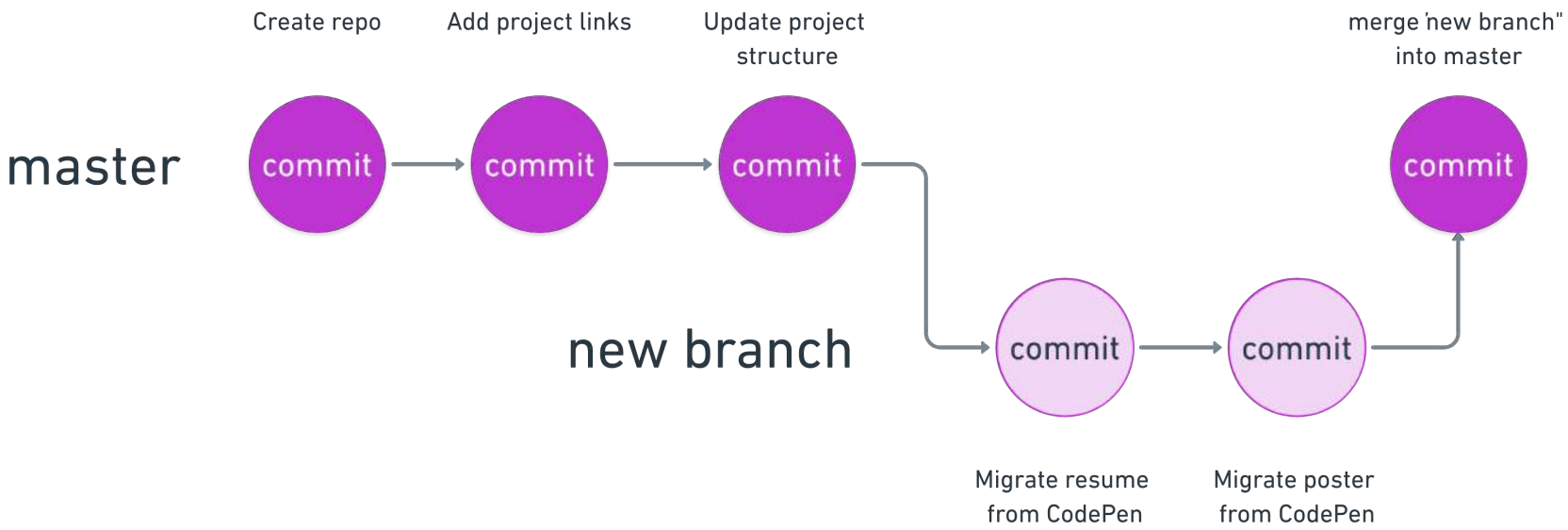
Git branches



Git branches



Git branches



Migrating from CodePen to VS Code

```
git branch migrate-from-codepen
```

```
git checkout migrate-from-codepen
```

1. Copy over most recent version of resume
    - `resume/index.html`
    - `resume/styles/styles.scss`

Migrating from CodePen to VS Code

- Copy over most recent version of resume
  - `resume/index.html`
  - `resume/styles/styles.scss`

1. "Go Live" to view in browser
2. "Watch Sass" to compile Sass

Migrating from CodePen to VS Code

- Copy over most recent version of resume
  - `resume/index.html`
  - `resume/styles/styles.scss`
- "Go Live" to view in browser
- "Watch Sass" to compile Sass

1. Stage your changes
2. Make a new commit

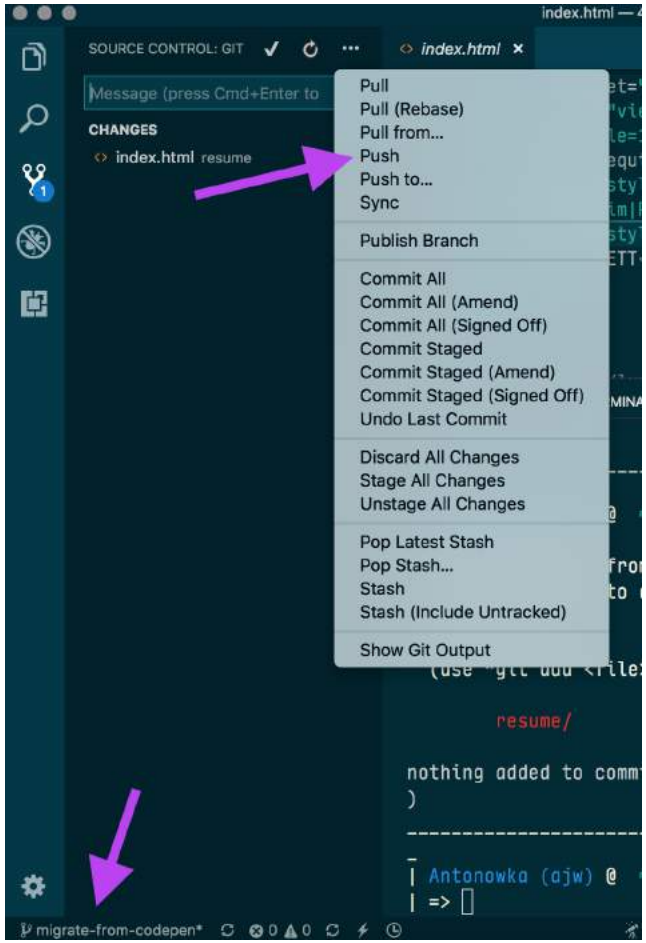
Migrating from CodePen to VS Code

- Copy over most recent version of resume
  - `resume/index.html`
  - `resume/styles/styles.scss`
- "Go Live" to view in browser
- "Watch Sass" to compile Sass
- Stage your changes
- Make a new commit

1. Repeat the process for your poster project
   - copy
   - verify
   - then commit

Migrating from CodePen to VS Code

```
git push origin migrate-from-codepen
```



Q&A for branches & workflow

Best practices for commits

A commit represents work that is

- Modular
- Connected

1. Add web fonts
2. Add JS for flyout menu
3. Make header responsive
4. Fix typo

Tasks as commits

1. Add web fonts
2. Add JS for flyout menu
3. Make header responsive
4. Fix typo

Best practices for commit messages

- Be useful
- Be brief (~50 char)

- Start with a verb in the present tense, like giving a command:
  - Update body font to Roboto
  - Fix typo in nav
  - Note tense: not updates or fixed

- Doesn't need to mention which file you worked on

Commits Q&A