

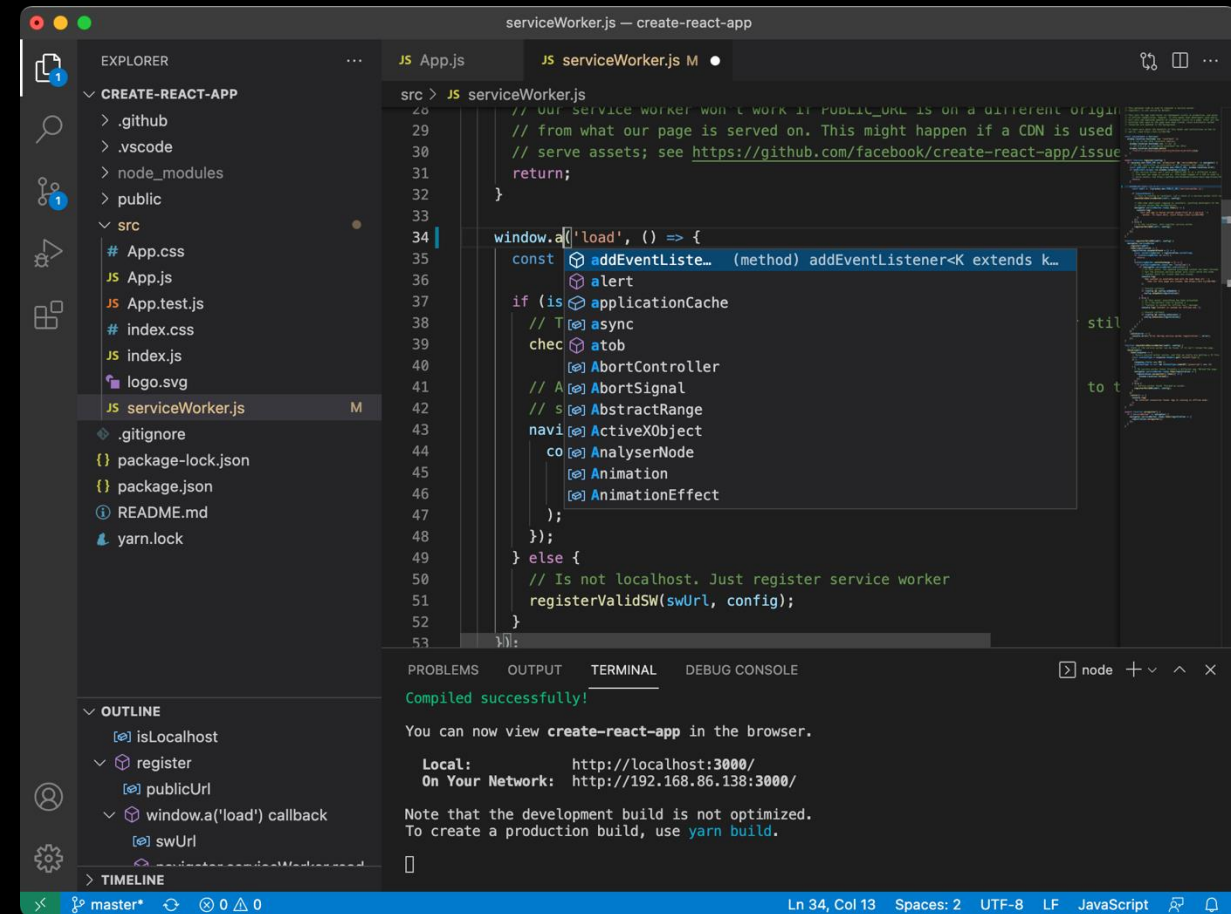
Visual Studio Code



**Your All-in-One Scientific Coding
Environment**

Advantages of VSCode

- IDE from Microsoft since 2015
- Free
- Handles almost every language
- Customizable by plugins
- Light-weight
- Remote SSH connection
- Can open stuff like .pdf, .jpg, .txt, .csv, .dat, and more



Installing and setting up

- Installation through the VSCode website
- VSCode requires some **extensions** for Python
 - Python
 - Jupyter
 - Ruff (optional)
 - Black (optional)
- What shortcuts do I need to know?
- Workspace concept: collection of folders opened in VSCode

Extensions: nice to have

- **GitGraph** – better git visualization
- GitLens – similar but requires subscription
- **Copilot** – AI integration
- Remote-ssh – work on a remote pc
- DataWrangler – edit/quiclook for dataframes
- YAML Sort - format and validate YAML files
- *Much more – I added a list at the end of the slides*

Let's have a look at the interface

Shortcuts

- ⌘ K ⌘ S - keyboard shortcuts
- ⌘ ↑ P – command palette
- ⌘ K Z – zen mode
- ⌘ P – open search
 - @ - search variable
- F12 – Go to definition
- ↑F12 - Go to reference
- ⌘ ↑ ↓ - move line up and down
- ⌘ ↑ F – format file
- ⌘ / - comment line
- ⌘ + left mouse button – multiple cursors
- ⌘ ⌘ ↑ ↓ - multiple cursors

Remote-SSH

- The Remote - SSH extension lets you use any remote machine with a SSH server as your development environment.
- See more [here](#).

LaTeX

- Fairly easy to implement in VSCode (see [here](#))
- Requires downloading [Latex Workshop](#) extension **and** latex itself ([MacTeX](#))

Data Wrangler

- Useful for Dataframes

Extensions

- [prettier-vscode](#)
 - [markdown-all-in-one](#)
 - [better-comments](#)
 - [git-graph](#)
 - [gitlens](#)
 - [path-intellisense](#)
 - [copilot](#)
 - [copilot-chat](#)
 - [vscode-pull-request-github](#)
 - [vscode-peacock](#)
 - [remote-ssh](#)
 - [vscode-speech](#)
 - [vsliveshare](#)
 - [vscode-yaml-sort](#)
 - [material-icon-theme](#)
- [Data wrangler](#)
 - [Latex Workshop](#)