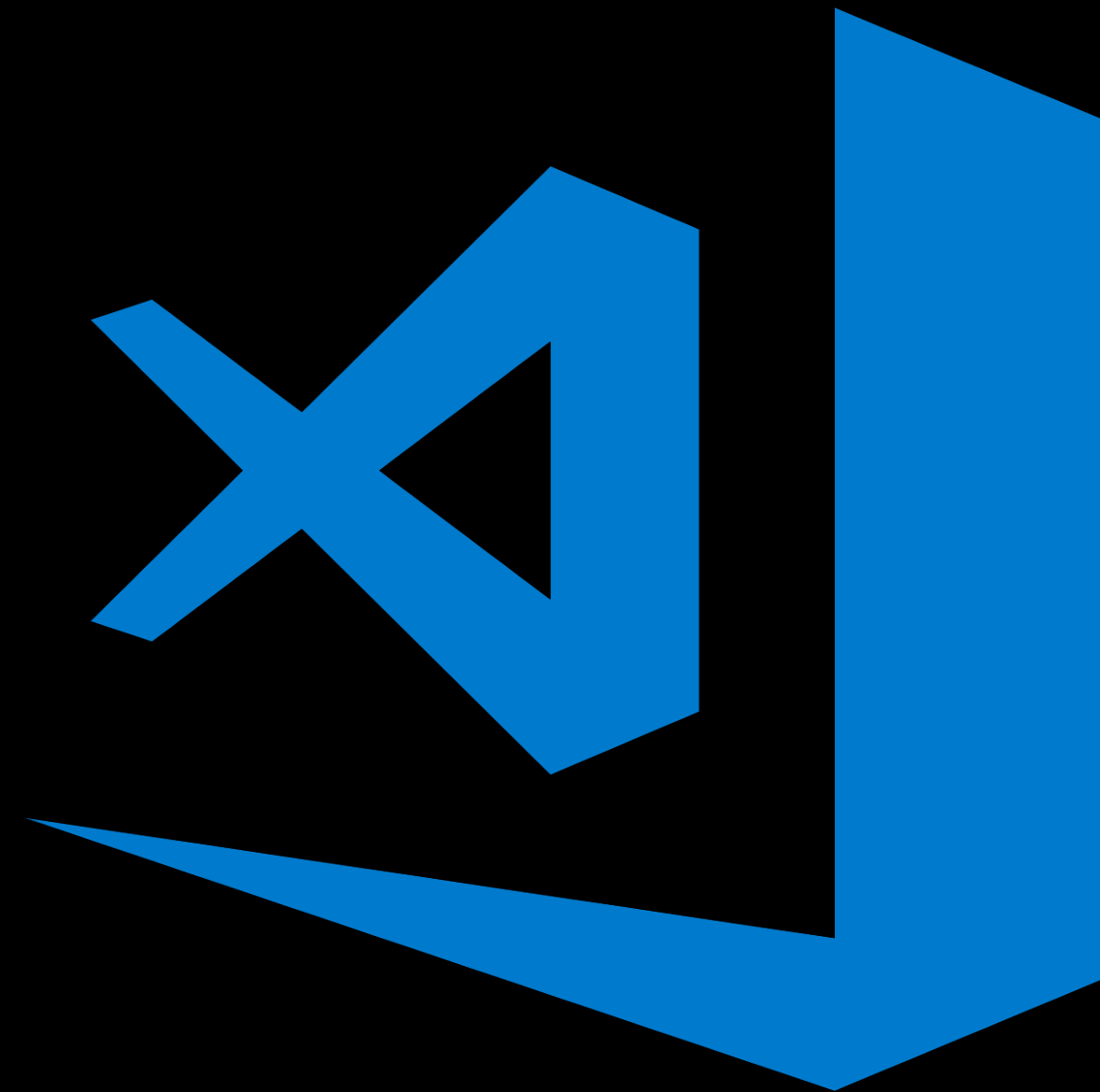


Intro to VSCODE

Getting to know your IDE



What we cover today

- What is an IDE?
- A quick tour
- Keyboard shortcuts are your friend
- Command Line
- Extensions (Common and useful ones)
- Code Snippets
- Backup your settings
- Create an extension

What is an IDE?

IDE => Integrated Development Environment

An integrated development environment (IDE) is a software application that provides comprehensive facilities to computer programmers for software development. An IDE normally consists of a source code editor, build automation tools, and a debugger. Most modern IDEs have intelligent code completion.

Popular IDE's are:

Xcode, Visual Studio Code, Visual Studio, Android Studio, JetBrains and... The web (codeanywhere.com, codesandbox.io etc.)

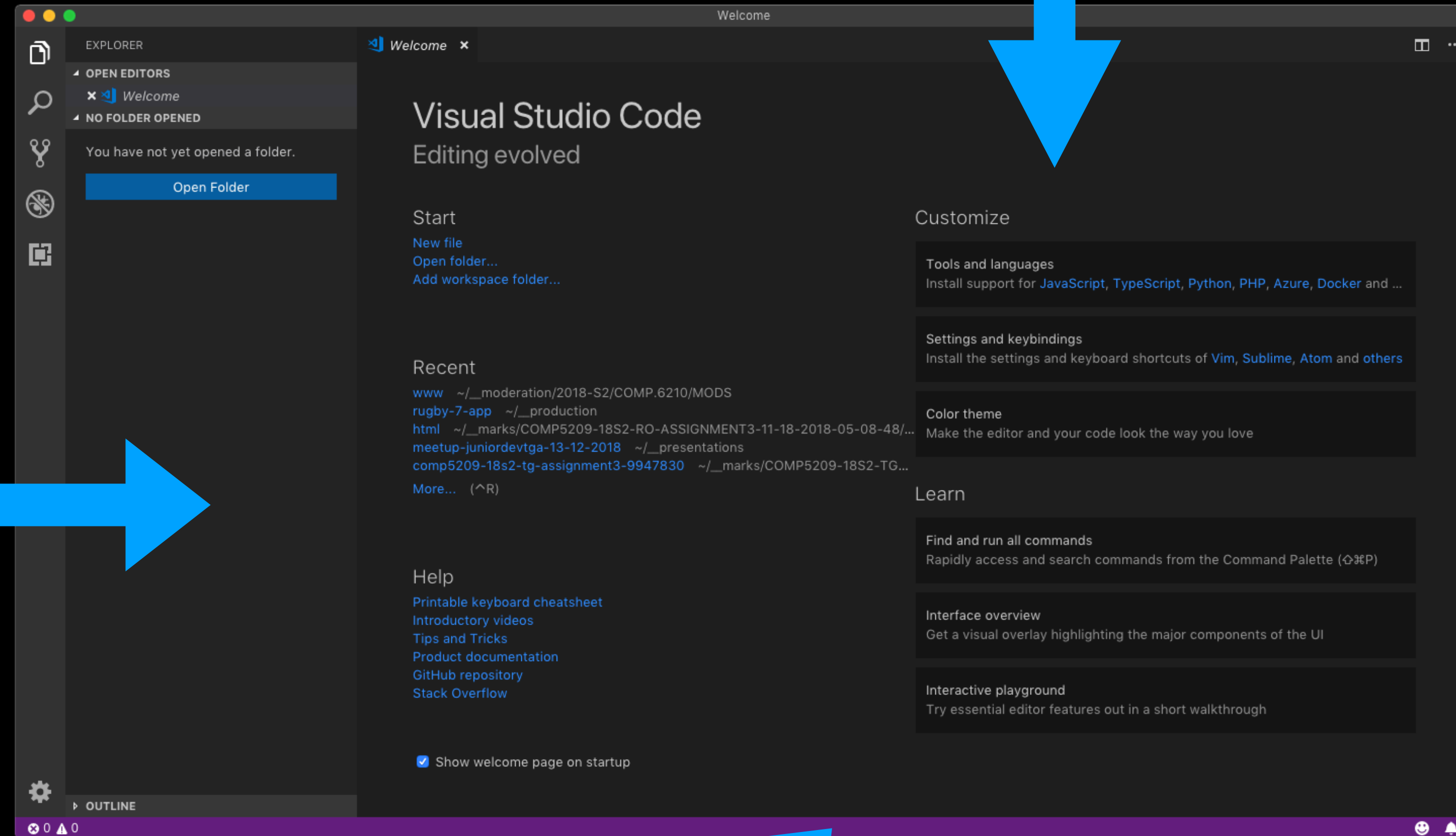
A quick tour

Side menu

File Browser

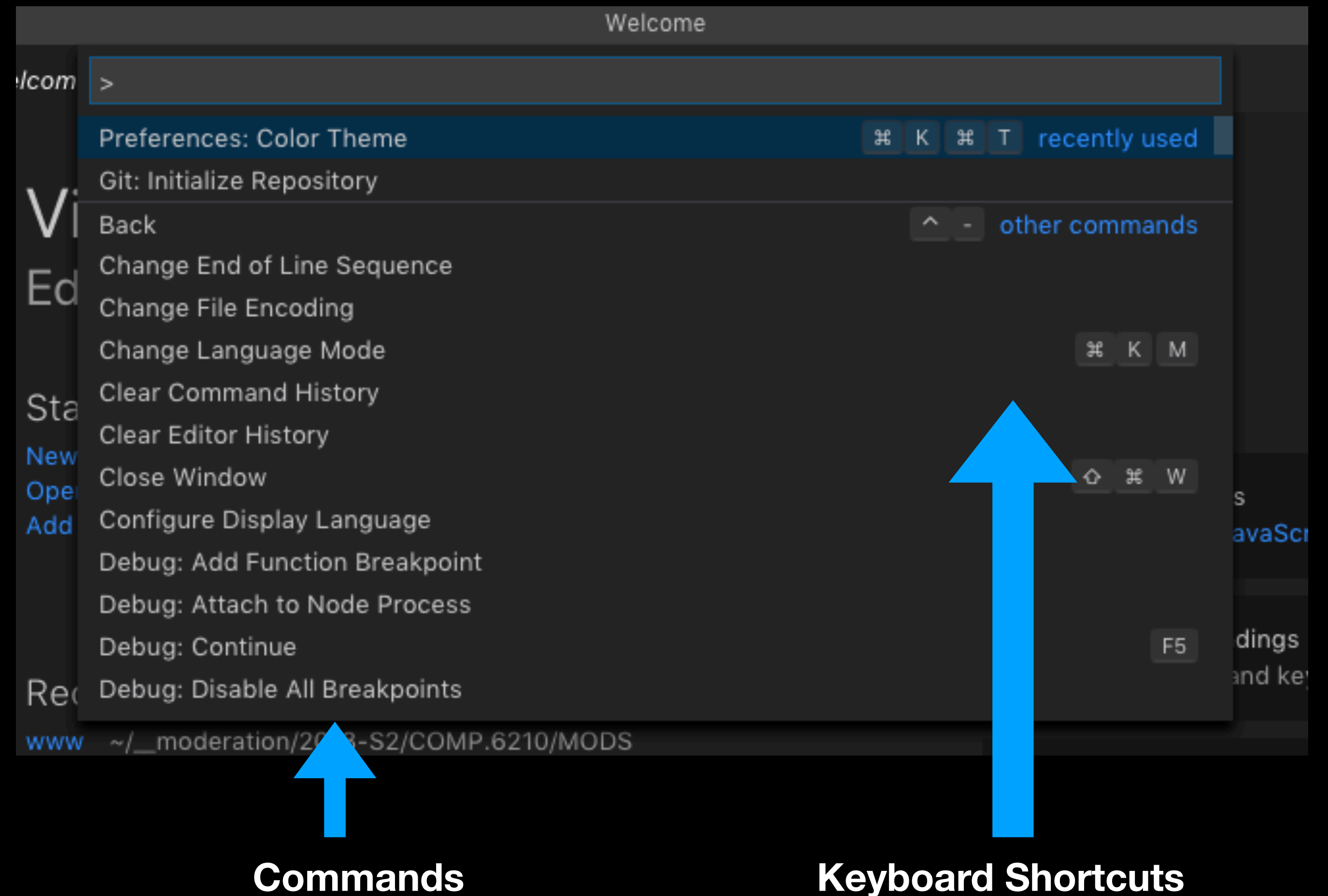
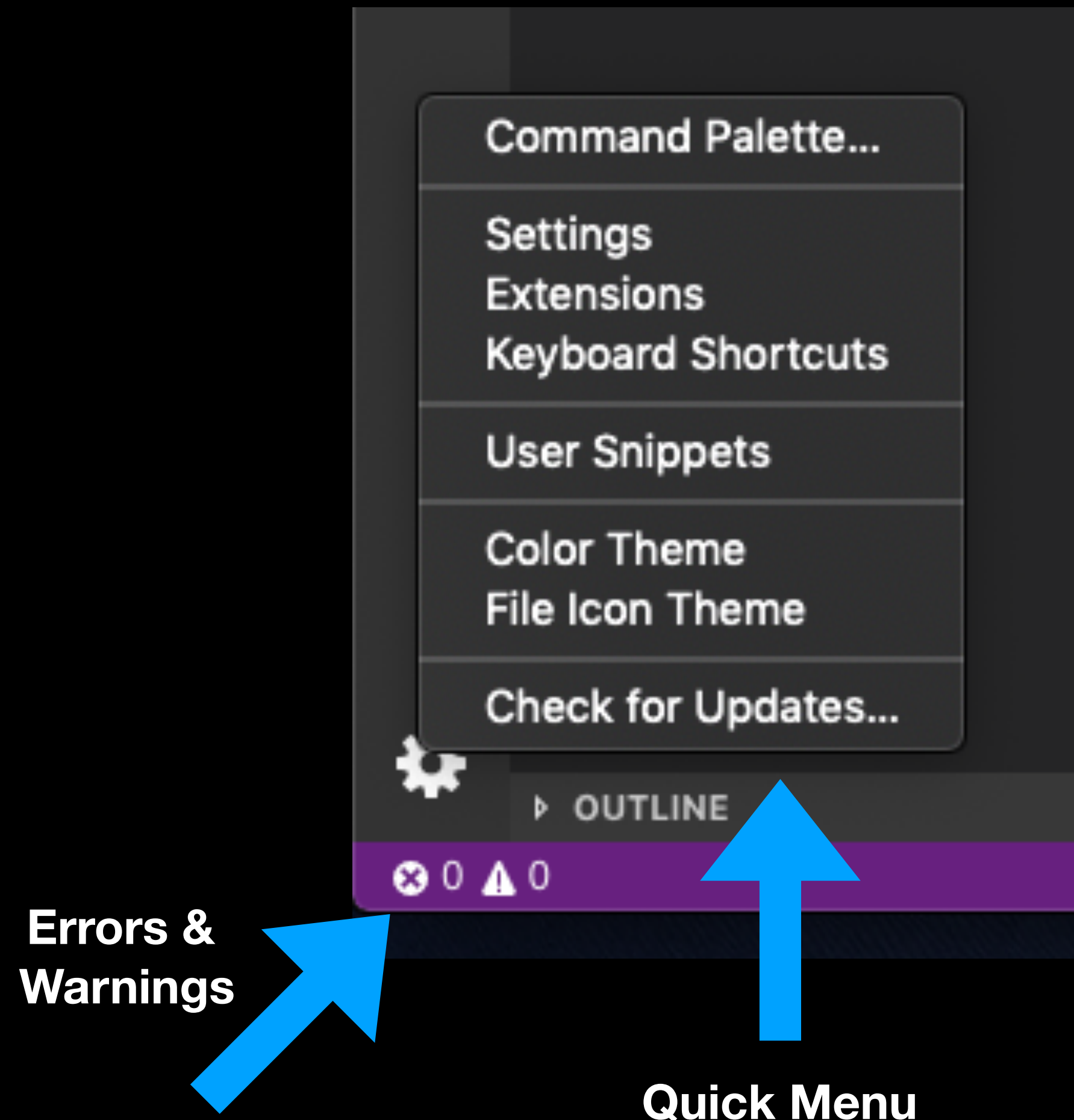
Code Window

Status Bar



A quick tour

Command Palette



Keyboard shortcuts are your friend

- Working with your keyboard can speed up things quite a bit
- Will test your memory in the beginning, but most common things will become automatic later on

Open vscode from the command line

<code>code .</code>	Open current folder in vscode
<code>code <folder name></code>	Open the selected folder in vscode

```
git init project && code project
// create a git repo and opens it in vscode
```

Keyboard shortcuts are your friend

macOS	Windows + Linux	What it does
<code>⌘ + B</code>	<code>Ctrl + B</code>	Open the side bar
<code>⌘ + ↑ + P</code>	<code>Ctrl + Shift + P</code>	Open the command palette
<code>⌘ + K -> ⌘ + F</code>	<code>Ctrl + K -> Ctrl + F</code>	Close a folder
<code>⌘ + , (comma)</code>	<code>Ctrl + , (comma)</code>	Open Settings
<code>⌘ + P</code>	<code>Ctrl + P</code>	Quick Open, Go to File...
<code>⌘ + ` (back-tick)</code>	<code>Ctrl + ` (back-tick)</code>	Open Terminal

<https://code.visualstudio.com/shortcuts/keyboard-shortcuts-macos.pdf>

<https://code.visualstudio.com/shortcuts/keyboard-shortcuts-windows.pdf>

<https://code.visualstudio.com/shortcuts/keyboard-shortcuts-linux.pdf>

The Command Line

So the command line is not part of the IDE, but it is part of the experience.

A lot of projects can be started from the command line

A lot of GUI applications are just a visual layer on top of cli commands

Web servers, Version Control, Package managers, Container setups are all controlled using the command line

GUI is secondary - sometimes easier, sometimes more limiting

The Command Line

Simple Workflow for setting up a web project

```
git init <project>  
cd <project>  
npm init (-y for default options)  
code .
```

Simple Workflow for setting up a dotnet core project

```
git init <project>  
dotnet new mvc -o <project>  
code <project>
```

Simple Workflow for setting up a vuejs project

```
git init <project>  
vue init pwa <project>  
cd <project>  
npm init  
code <project>
```

Extensions - Make it yours

Just like we do with our browsers, we can install extensions in vscode

This takes a bit of discipline (maybe) because it can be tempting to install a lot of extensions

Tip: Manage (and use) your extensions for the project you need

Some extensions we can install globally, but why would we install a php extension for a vuejs or react project?

Extensions - Make it yours

When using vscode you can save some settings that are specific to your project in a `.vscode` folder.

In the `.vscode` folder you can a json file called `extensions.json` and inside there you can save a list of extensions for your project.

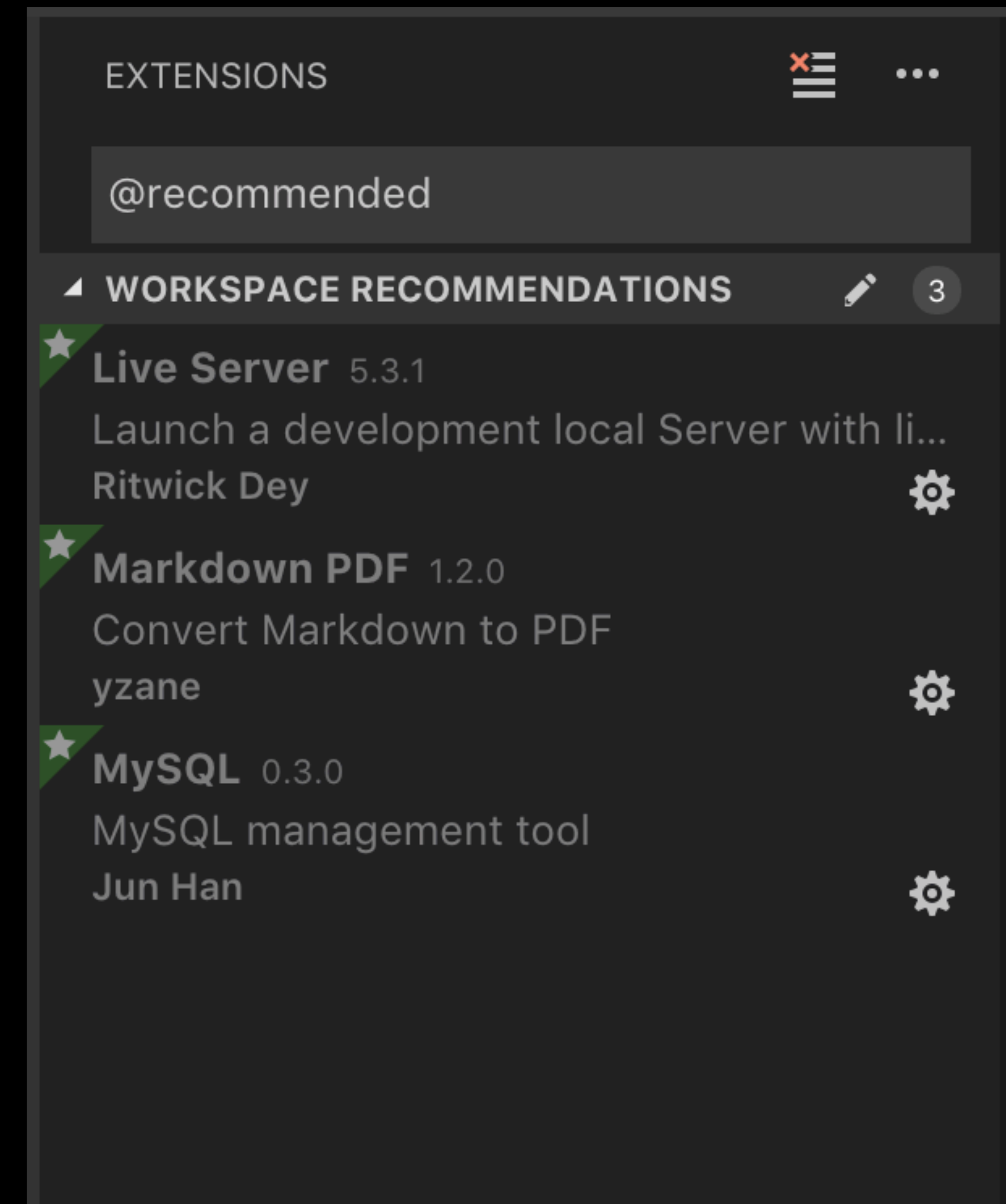
```
{
  "recommendations": [
    "eg2.tslint",
    "dbaeumer.vscode-eslint",
    "msjsdiag.debugger-for-chrome"
  ]
}
```

Extensions - Make it yours

```
.vscode > {} extensions.json > ...  
1 {  
2   "recommendations": [  
3     "ritwickdey.liveserver",  
4     "formulahendry.vscode-mysql",  
5     "yzane.markdown-pdf"  
6   ]  
7 }
```

Once you created your extensions.json list
Type in @recommended in the extension panel and you will see them
pop up

This file can be added into version control, so very useful if you are
working in a team and you need to use the same extensions



Code Snippets

Code snippets allow you create shortcuts to setup blocks of code you may use a lot.

In vscode you can specify these by language and they are all written in json format

For each code snippet you will need:

- name of extension
- prefix (shortcut)
- body (the code)
- description (what does it do)

Code Snippets

```
{
  "Setting up JSAction": {
    "prefix": "jsaction",
    "body": [
      "const $1 = document.querySelector('$2')",
      "",
      "$1.addEventListener('$3', () => {",
      "\t$4();",
      "})",
      "",
      "const $4 = () => {",
      "$5",
      "}"
    ],
    "description": "Setting up an eventhandler to an object"
  }
}
```

Code Snippets

Just like with extensions, these code snippets can travel with your code in version control

In the `.vscode` folder create a folder called snippets and save your `language.json` files in there

Back up your settings

<https://marketplace.visualstudio.com/items?itemName=Shan.code-settings-sync>

Creating an Extension

Go to Github!