

Visual Studio Code

Tips and Tricks

Foreword



Contribute on  GitHub



View Online neave.dev/vscode



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What is VS Code?

“ Visual Studio Code is a free code editor that is optimized for building and debugging modern web and cloud applications.”

You can run it on Windows, Linux, Mac or Online

<https://vscode.dev>

Key Features:

- It supports a range of languages,
- Productivity shortcut circuits
 - Keyboard shortcuts
 - Tasks
 - Snippets
- Customizable with
 - Themes
 - Extensions
- Integrated terminal.

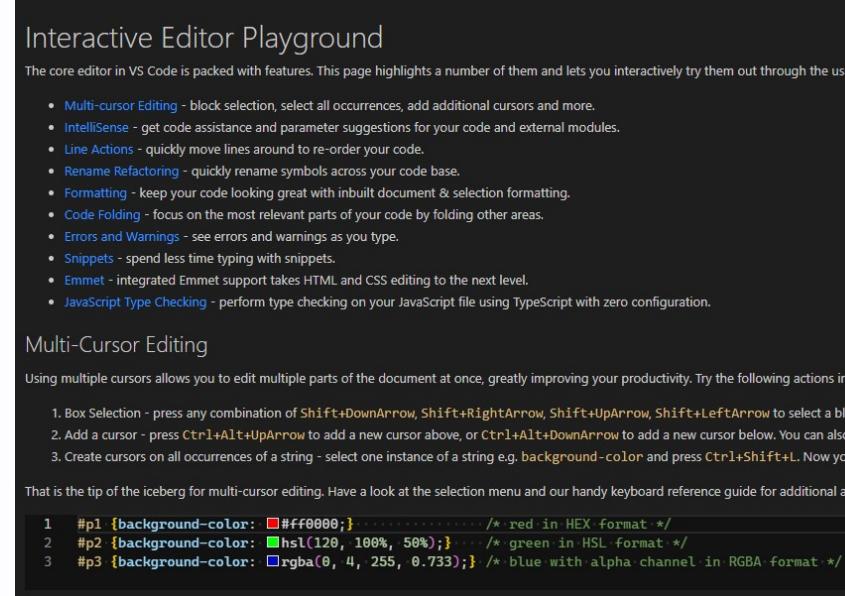
Documentation and Updates

- Official Documentation
 - Intro Videos
 - Tips and Tricks
 - Updates
- VSCode YouTube Channel

Inbuilt Features

Help Menu

- Keyboard shortcut reference
- Walkthroughs
- Interactive Editor Playground



The screenshot shows a dark-themed browser window titled "Interactive Editor Playground". The page content is as follows:

Interactive Editor Playground

The core editor in VS Code is packed with features. This page highlights a number of them and lets you interactively try them out through the use of code snippets.

- Multi-cursor Editing - block selection, select all occurrences, add additional cursors and more.
- IntelliSense - get code assistance and parameter suggestions for your code and external modules.
- Line Actions - quickly move lines around to re-order your code.
- Rename Refactoring - quickly rename symbols across your code base.
- Formatting - keep your code looking great with inbuilt document & selection formatting.
- Code Folding - focus on the most relevant parts of your code by folding other areas.
- Errors and Warnings - see errors and warnings as you type.
- Snippets - spend less time typing with snippets.
- Emmet - integrated Emmet support takes HTML and CSS editing to the next level.
- JavaScript Type Checking - perform type checking on your JavaScript file using TypeScript with zero configuration.

Multi-Cursor Editing

Using multiple cursors allows you to edit multiple parts of the document at once, greatly improving your productivity. Try the following actions in the code editor:

1. Box Selection - press any combination of `Shift+DownArrow`, `Shift+RightArrow`, `Shift+UpArrow`, `Shift+LeftArrow` to select a block of text.
2. Add a cursor - press `Ctrl+Alt+UpArrow` to add a new cursor above, or `Ctrl+Alt+DownArrow` to add a new cursor below. You can also use `Ctrl+Shift+UpArrow` and `Ctrl+Shift+DownArrow`.
3. Create cursors on all occurrences of a string - select one instance of a string e.g. `background-color` and press `Ctrl+Shift+L`. Now you can edit all occurrences at once.

That is the tip of the iceberg for multi-cursor editing. Have a look at the selection menu and our handy keyboard reference guide for additional actions.

```
1 #p1 {background-color: #ff0000;} /* red in HEX format */
2 #p2 {background-color: hsl(120, 100%, 50%); /* green in HSL format */
3 #p3 {background-color: rgba(0, 4, 255, 0.733);} /* blue with alpha channel in RGBA format */
```



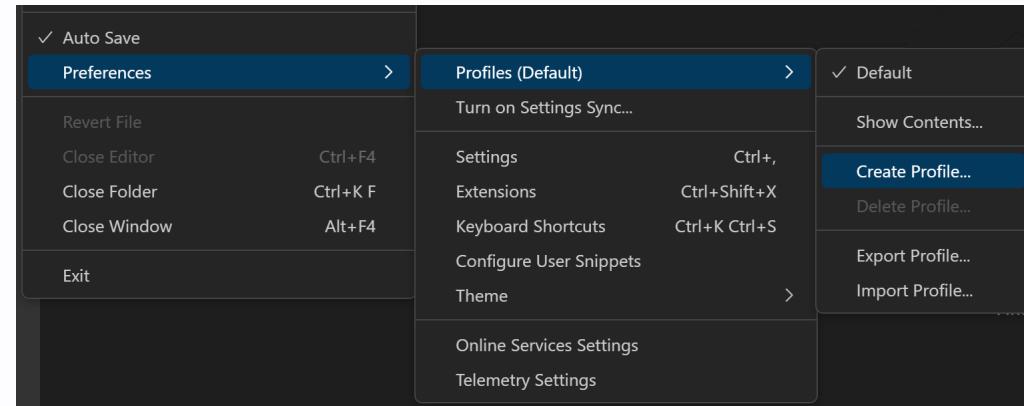
Settings

Inbuilt Features

Profiles

VS Code has a Default Profile. You can have additional **profiles**.

Customize Settings, Keyboard Shortcuts, User Snippets, User Tasks or Extensions



Have a profile for frontend, backend, AWS and Azure or a project.

You have a project that uses Jira, AWS and Python - you could install the tools and extensions as part of that project.

Customisation

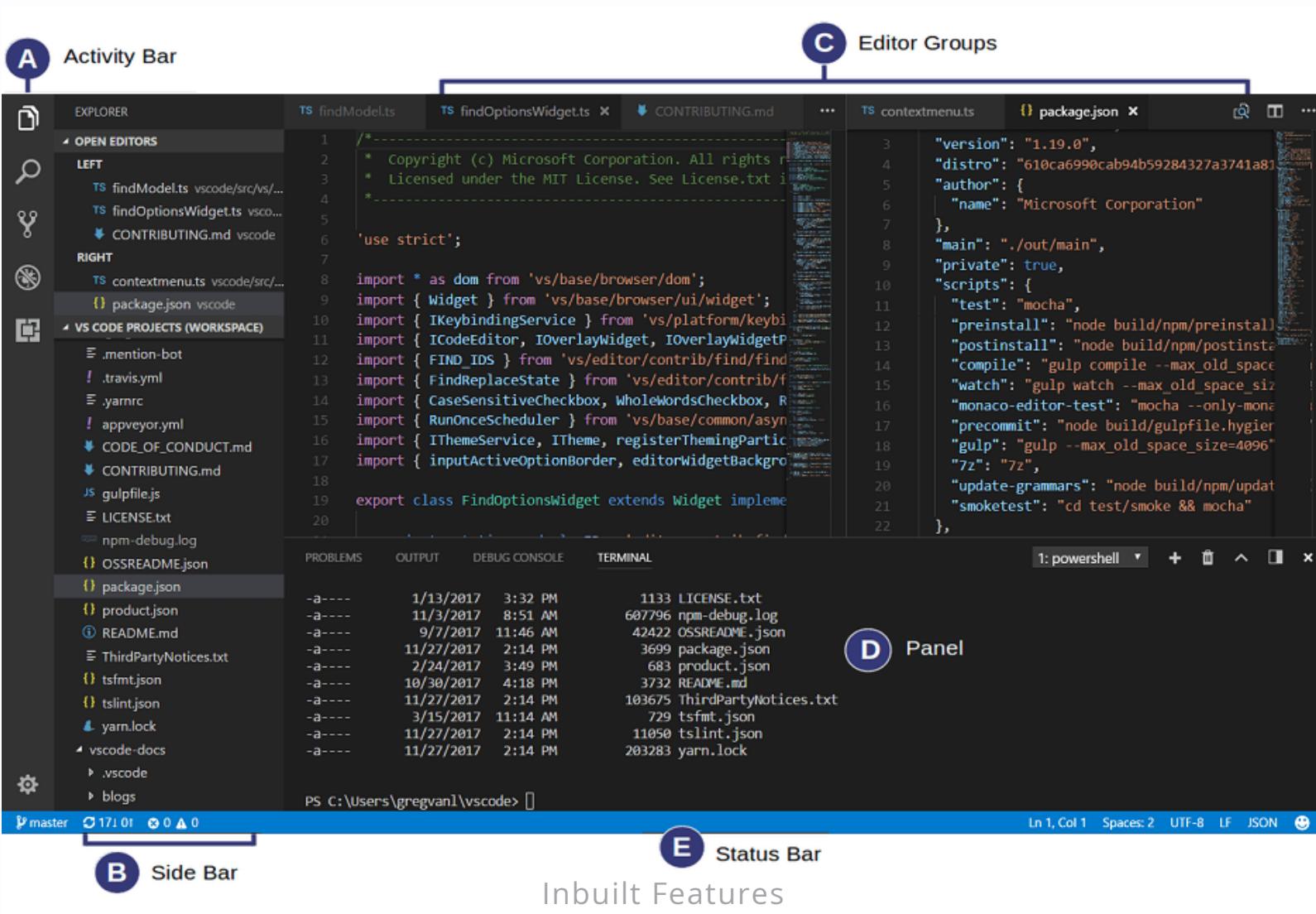
- Default settings or open Preferences: Open Default Settings (JSON)
- Customize it with User settings - Ctrl+P and go to Open User Settings (JSON)

```
{  
  "editor.fontFamily": "'Cascadia Code'",  
  "editor.formatOnSave": true,  
  "editor.rulers": [ 120 ],  
  "editor.stickyScroll.enabled": true,  
  "editor.trimAutoWhitespace": true,  
  "explorer.fileNesting.enabled": true,  
  "files.trimTrailingWhitespace": true,  
  "git.branchPrefix": "yourusername/",  
  "terminal.integrated.fontFamily": "'CaskaydiaCove Nerd Font Mono','Cascadia Code',Consolas,'Courier New',monospace",  
  "workbench.sideBar.location": "right"  
}
```

Synchronized Settings

Settings sync cross multiple instances of VS Code

Layout



You can customize the layout. My preference is to move the sidebar to the right.

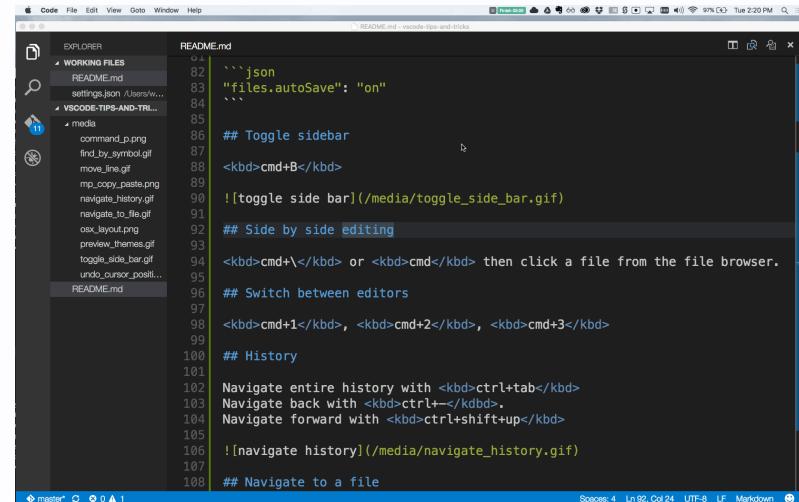
```
workbench.sidebar.location: "right"
```

So that when you **Toggle Sidebar** (Ctrl+B), it doesn't make the code jump around.

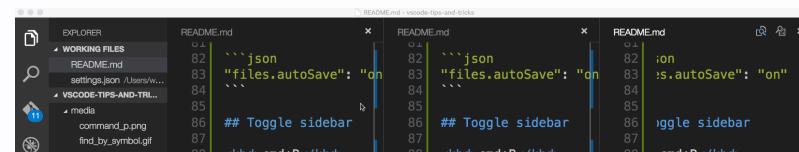
Add a secondary sidebar with Outline view for better navigation.

Grouping

Ctrl+\



Ctrl+1, Ctrl+2



Ctrl+P and View: Move Editor to Next Group

Inbuilt Features

Navigation

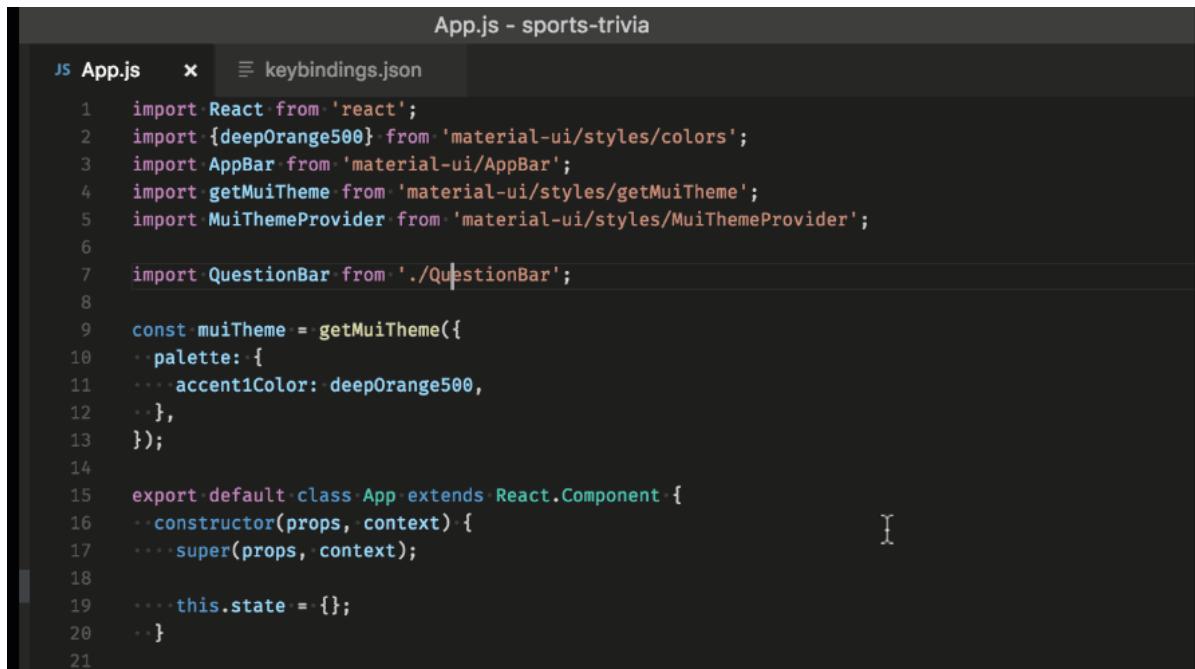
- Navigate between recently opened files and workspaces/projects - `Ctrl+R`

Multi-Root Workspaces

Normally your workspace has a single root/project folder but you can have a workspace with multiple project folders in Visual Studio Code with [multi-root workspaces](#).

```
{  
  "folders": [  
    {  
      // Source code  
      "name": "Product",  
      "path": "vscode"  
    },  
    {  
      // Docs and release notes  
      "name": "Documentation",  
      "path": "vscode-docs"  
    },  
    {  
      // Yeoman extension generator  
      "name": "Extension generator",  
      "path": "vscode-generator-code"  
    }  
  ]  
}
```

Command Palette



The screenshot shows a dark-themed code editor window titled "App.js - sports-trivia". A Command Palette is open at the top, displaying the text "Ctrl+Shift+P". The code editor contains the following code:

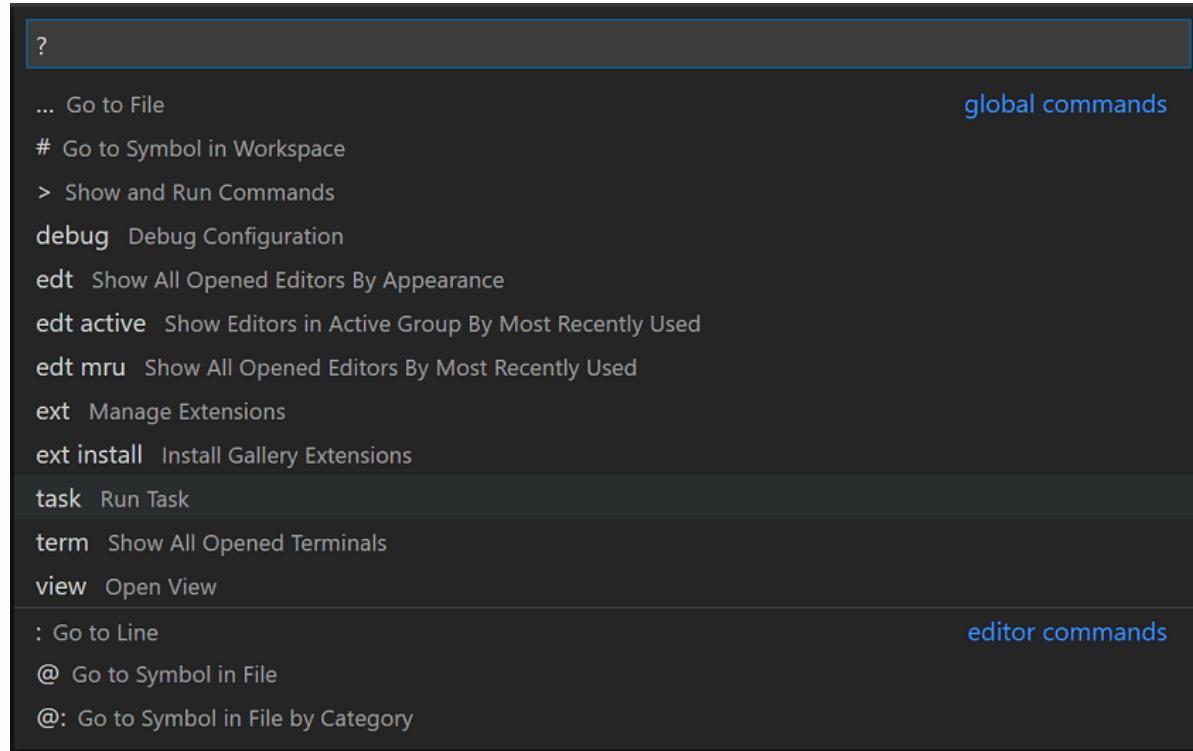
```
App.js  x  keybindings.json
1 import React from 'react';
2 import {deepOrange500} from 'material-ui/styles/colors';
3 import AppBar from 'material-ui/AppBar';
4 import getMuiTheme from 'material-ui/styles/getMuiTheme';
5 import MuiThemeProvider from 'material-ui/styles/MuiThemeProvider';
6
7 import QuestionBar from './QuestionBar';
8
9 const muiTheme = getMuiTheme({
10   palette: {
11     accent1Color: deepOrange500,
12   },
13 });
14
15 export default class App extends React.Component {
16   constructor(props, context) {
17     super(props, context);
18
19     this.state = {};
20   }
21 }
```

Ctrl+Shift+P

Quick Open File



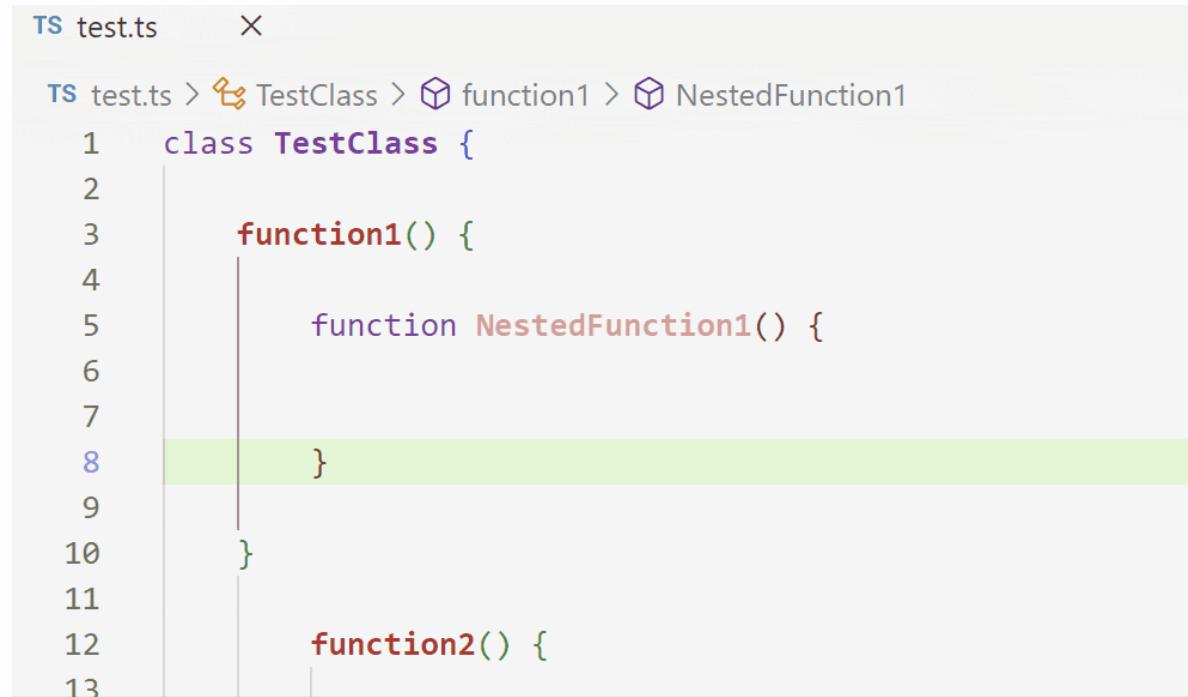
Ctrl+P



Ctrl+P and type ?term to open a new terminal

Sticky Scroll

Remember the context with Sticky Scroll



The screenshot shows a code editor window for a file named `test.ts`. The code is as follows:

```
TS test.ts      ×  
TS test.ts > 📁 TestClass > 🕒 function1 > 🕒 NestedFunction1  
1  class TestClass {  
2  
3    function1() {  
4  
5      function NestedFunction1() {  
6  
7  
8      }  
9  
10   }  
11  
12   function2() {  
13 }
```

The code editor highlights the nested function `NestedFunction1` with a green background. The status bar at the top indicates the current context: `TS test.ts > 📁 TestClass > 🕒 function1 > 🕒 NestedFunction1`.

Editing

Text Manipulation

- Sort Lines Ascending/Descending
- Join Lines

- Transform Text

Transform Example

Title Hello World

Upper HELLO WORLD

Lower hello world

Camel helloWorld

Snake helloWorld  hello_world

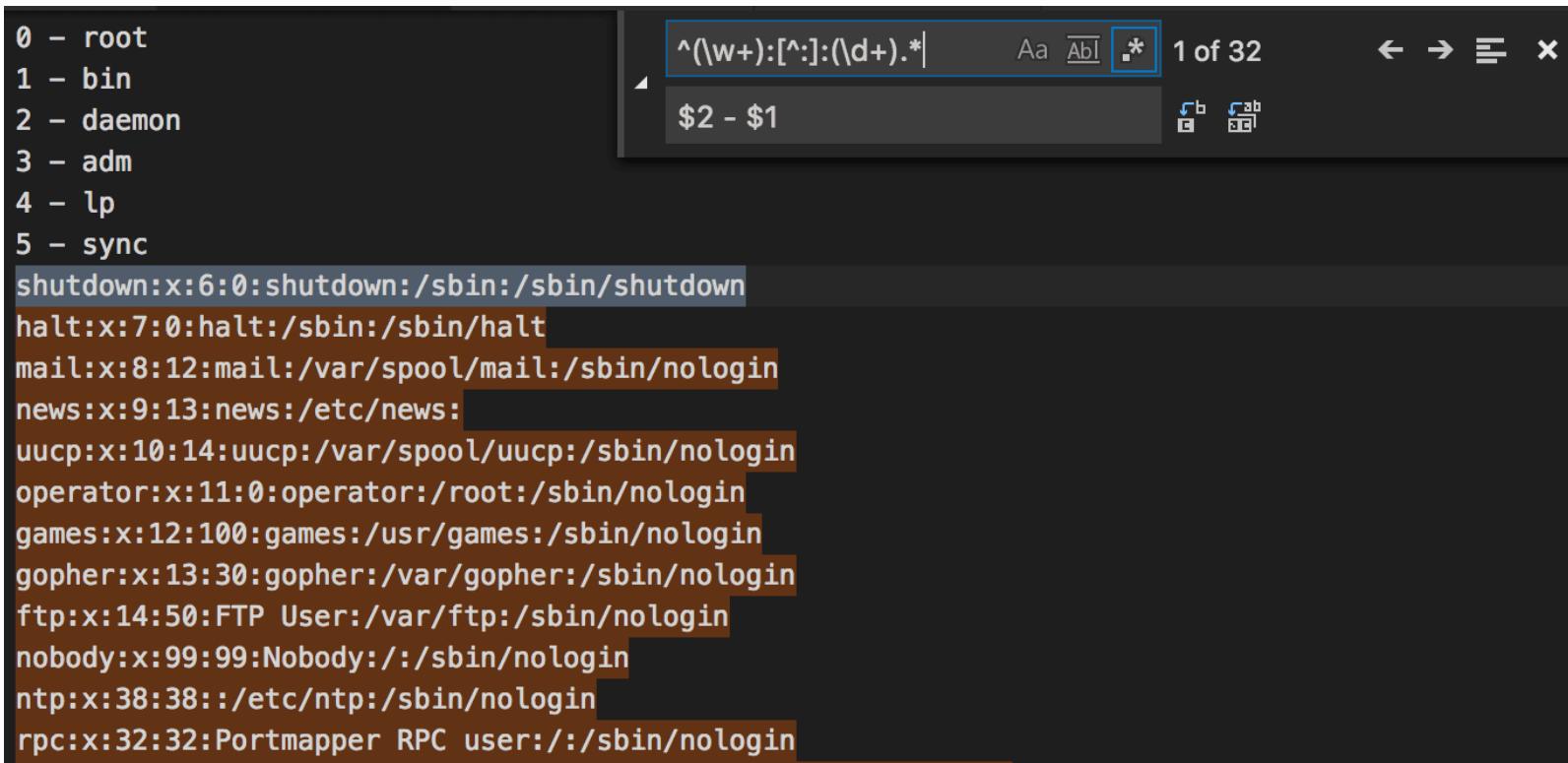
Kebab helloWorld  hello-world

Code Formatting

```
render() {
  return (
    <div className={s.app}>
      <AppBar
        title="Notes"
        iconClassNameRight="muidocs-icon-navigation-expand-right"
      />
      <div style={{
        marginTop: 20,
        marginLeft: 20
      }}>
        <NewNote />
        <Notes items={this.state.notes}/>
      </div>
    </div>
  );
}
```

Inbuilt Features

Regex Search and Replace



A screenshot of a terminal window showing a search and replace operation. The search term is `^(\w+):[^\:](\d+).*`. The replacement term is `$2 - $1`. The terminal displays a list of users from /etc/passwd, with the search term highlighted in blue and the replacement term in orange.

```
0 - root
1 - bin
2 - daemon
3 - adm
4 - lp
5 - sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
news:x:9:13:news:/etc/news:
uucp:x:10:14:uucp:/var/spool/uucp:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
gopher:x:13:30:gopher:/var/gopher:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:99:99:Nobody:/:/sbin/nologin
ntp:x:38:38::/etc/ntp:/sbin/nologin
rpc:x:32:32:Portmapper RPC user:/:/sbin/nologin
```

Multi Cursor

Edit Text Vertically with [multi-cursor](#)

Keep selecting text with Ctrl+D and update over multiple locations in a file.

```
31 .global-message-list.transition {  
32 →   -webkit-transition: top 200ms linear;  
33 →   -ms-transition:      top 200ms linear;  
34 →   -moz-transition:    top 200ms linear;  
35 →   -khtml-transition:  top 200ms linear;  
36 →   -o-transition:      top 200ms linear;  
37 →   transition:         top 200ms linear;  
38 }
```

Expanding and Shrinking Selection

Shift+Alt+Left and Shift+Alt+Right

Ever tried to find the start and end of a large <div>

</div> ?

```
7 namespace Hello1
8 {
9     0 references
10    class Program
11    {
12        0 references
13        static void Main(string[] args)
14        {
15            System.Console.WriteLine("Hello World!");
16        }
17    }
18 }
```

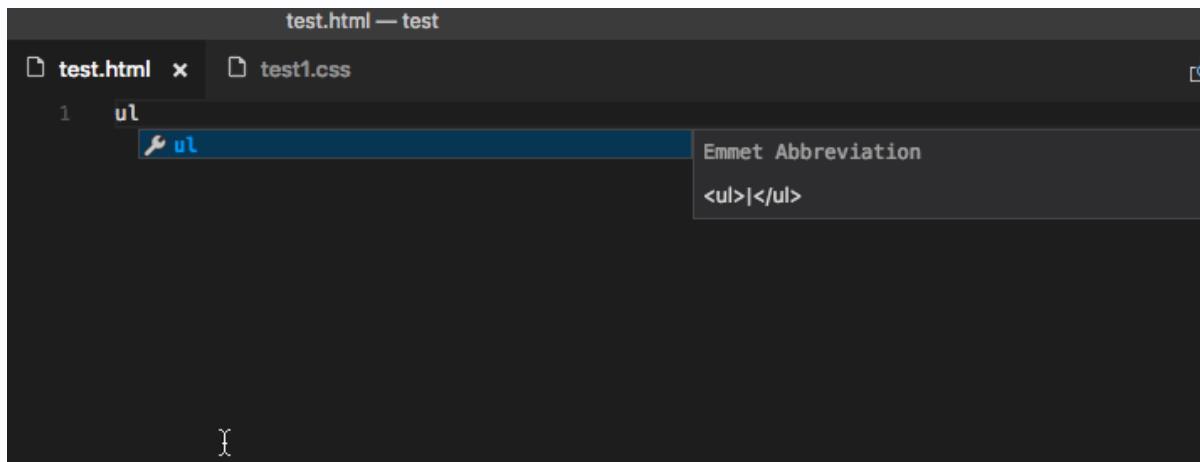
Folding

Hide Text for easier
reading

Fold Level [1 | 2 | 3 | 4],
Fold All, Unfold All

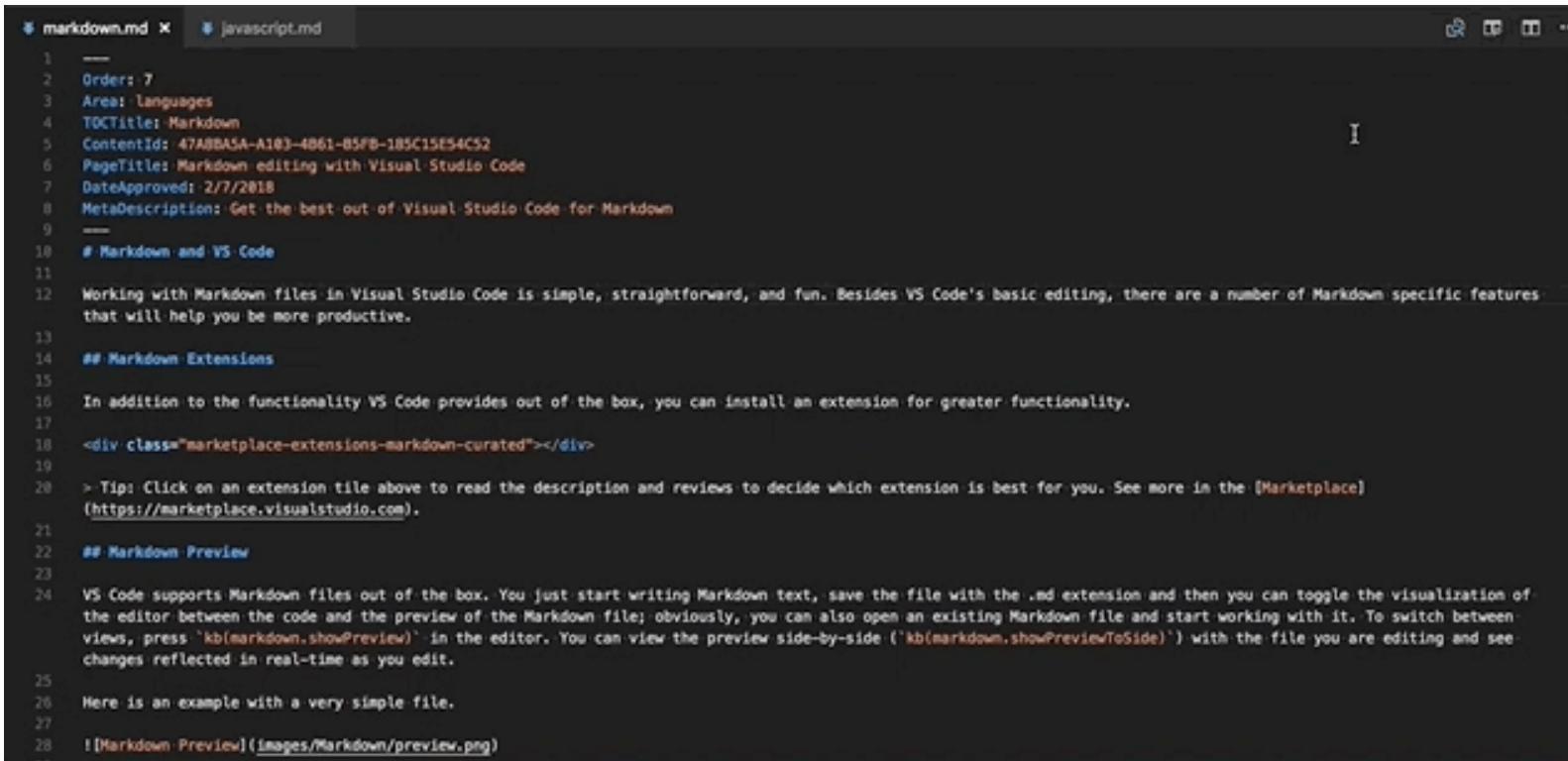
```
class App extends Component {  
  
  constructor() {  
    super();  
    this.state = {  
      notes: [  
        {  
          text: "go to the grocery store"  
        },  
        {  
          text: 'read medium article about engineering'  
        },  
        {  
          text: 'create build session'  
        },  
        {  
          text: 'fix bug #232'  
        }  
      ];  
    };  
  }  
}
```

Emmet



Generate HTML and
CSS from shorthand.
Works with multi-
cursors

Markdown preview

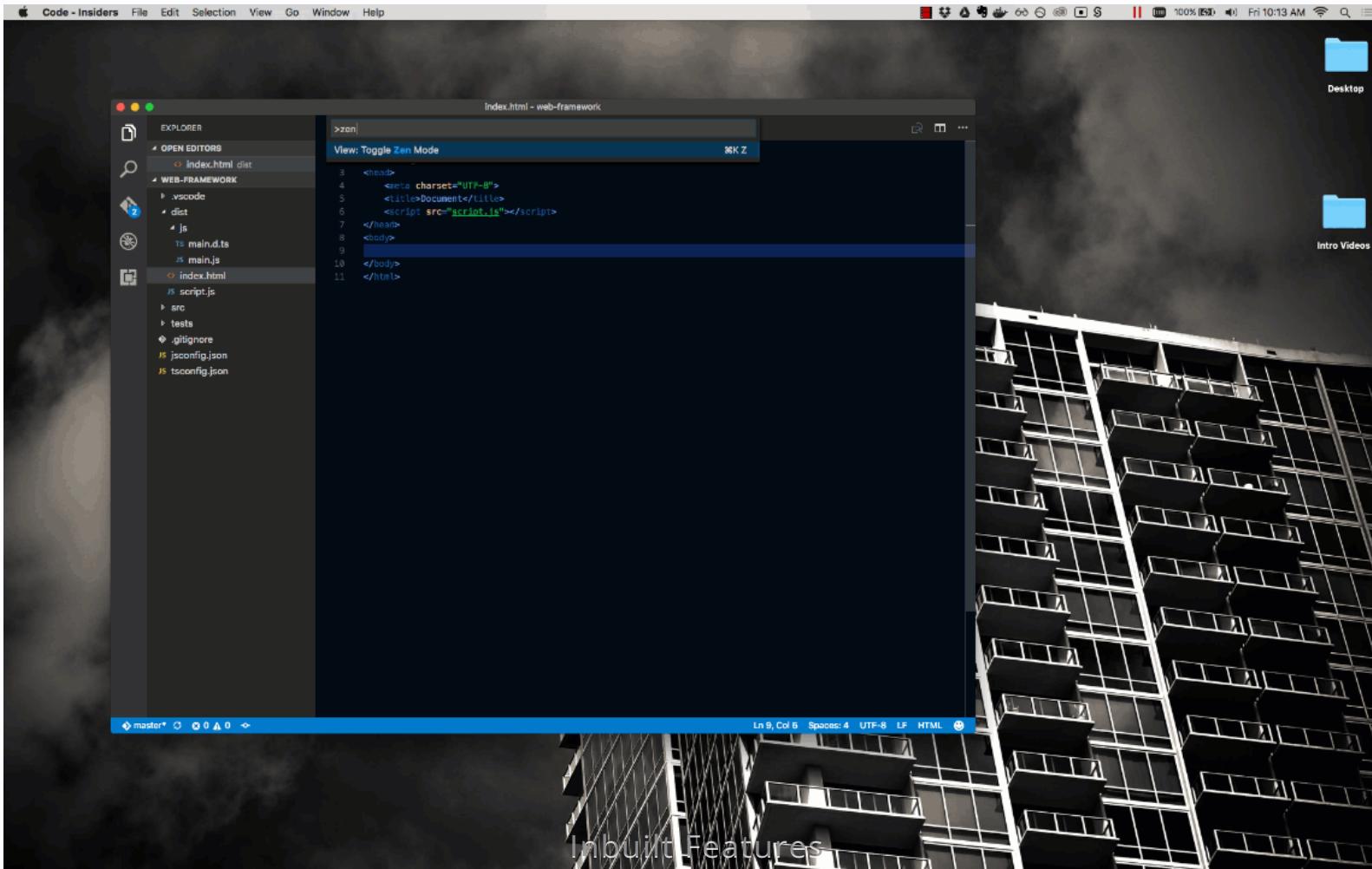


```
1 —
2 Order: 7
3 Area: Languages
4 TOCTitle: Markdown
5 ContentId: 47A8B85A-A183-4861-85FB-185C15E54C52
6 PageTitle: Markdown editing with Visual Studio Code
7 DateApproved: 2/7/2018
8 MetaDescription: Get the best out of Visual Studio Code for Markdown
9 —
10 # Markdown and VS Code
11
12 Working with Markdown files in Visual Studio Code is simple, straightforward, and fun. Besides VS Code's basic editing, there are a number of Markdown specific features that will help you be more productive.
13
14 ## Markdown Extensions
15
16 In addition to the functionality VS Code provides out of the box, you can install an extension for greater functionality.
17
18 <div class="marketplace-extensions-markdown-curated"></div>
19
20 > Tip: Click on an extension tile above to read the description and reviews to decide which extension is best for you. See more in the Marketplace (https://marketplace.visualstudio.com).
21
22 ## Markdown Preview
23
24 VS Code supports Markdown files out of the box. You just start writing Markdown text, save the file with the .md extension and then you can toggle the visualization of the editor between the code and the preview of the Markdown file; obviously, you can also open an existing Markdown file and start working with it. To switch between views, press 'kb(markdown.showPreview)' in the editor. You can view the preview side-by-side ('kb(markdown.showPreviewToSide)') with the file you are editing and see changes reflected in real-time as you edit.
25
26 Here is an example with a very simple file.
27
28 ! [Markdown Preview] (images/Markdown/preview.png)
```

Productivity / Focus

Zen Mode

Focus on the code with Zen Mode



Inbuilt Features

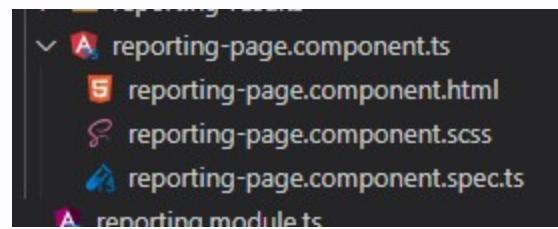
Errors

Jump to the **next error** with **F8**

File Nesting

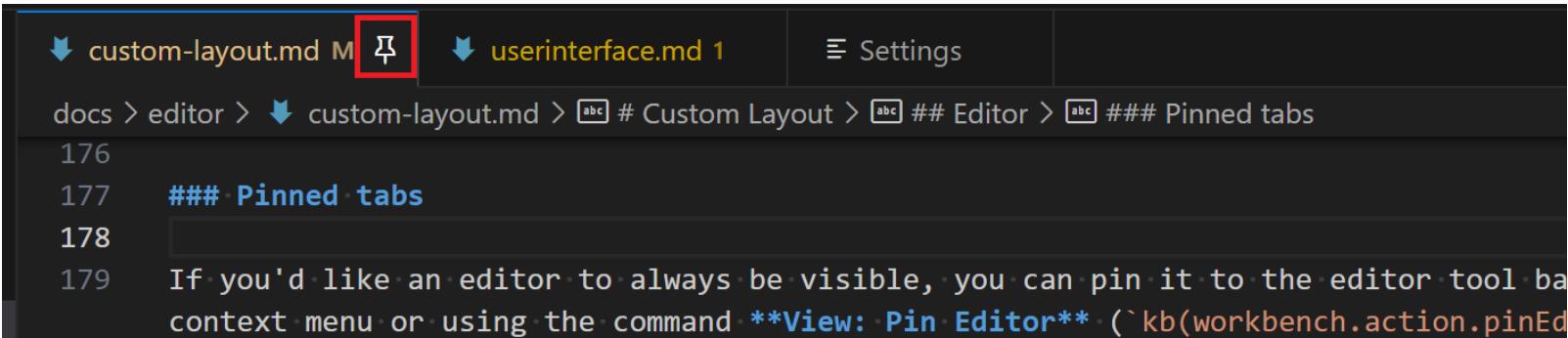
Nest related files under a parent file in the explorer.

```
"explorer.fileNesting.patterns": {  
    "*.component.ts": "$(capture).component.html, $(capture).component.spec.ts, $(capture).component.scss",  
}
```



Pinned Tabs

Pinned Tabs allow you to keep a file open

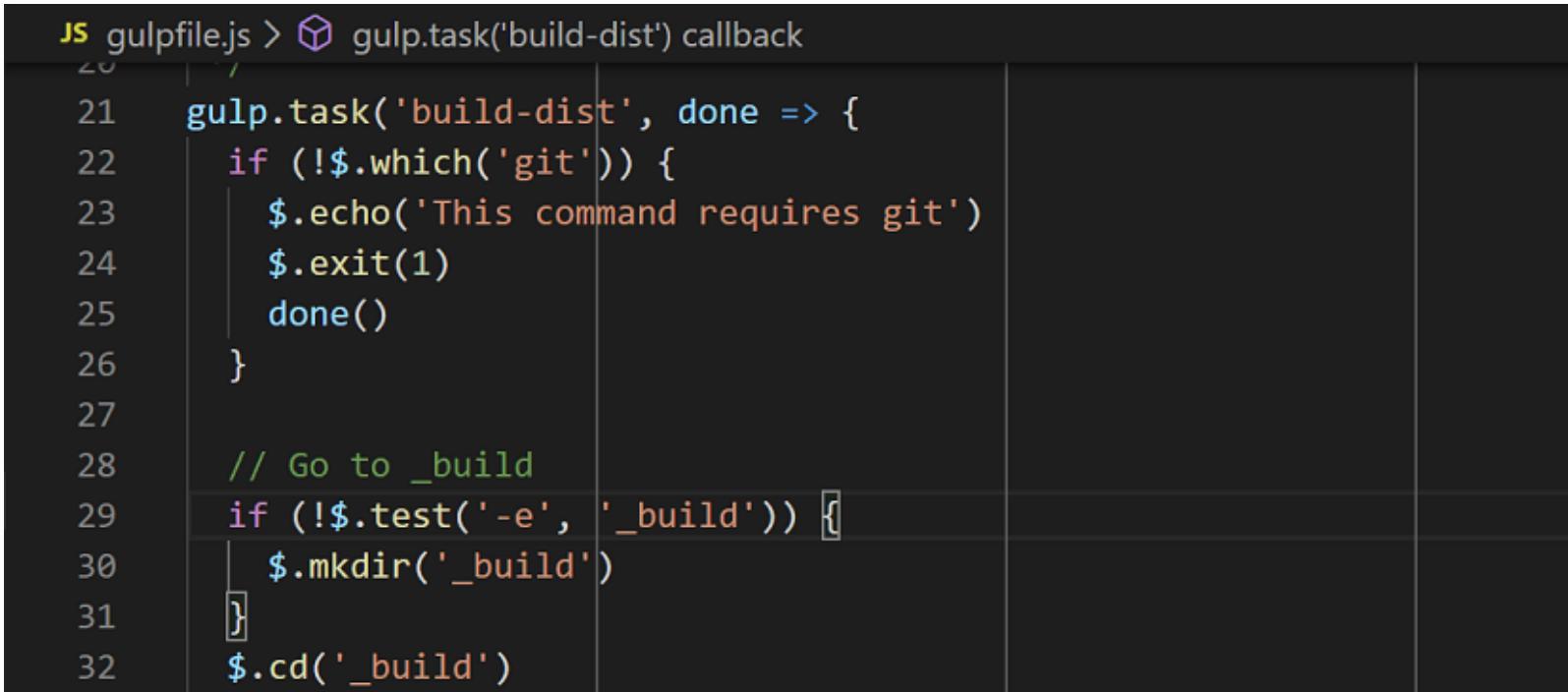


The screenshot shows the VS Code interface with two tabs open: "custom-layout.md" and "userinterface.md 1". The "custom-layout.md" tab has a red box around its pinning icon (a square with a diagonal line). The status bar at the bottom displays the file path: "docs > editor > custom-layout.md > # Custom Layout > ## Editor > ### Pinned tabs". The code editor shows a section titled "### Pinned tabs" with the following text:

```
176
177 ### Pinned tabs
178
179 If you'd like an editor to always be visible, you can pin it to the editor tool bar context menu or using the command View: Pin Editor (^kb(workbench.action.pinEd
```

Vertical Rulers

Make sure your code isn't getting too long and hard to read.



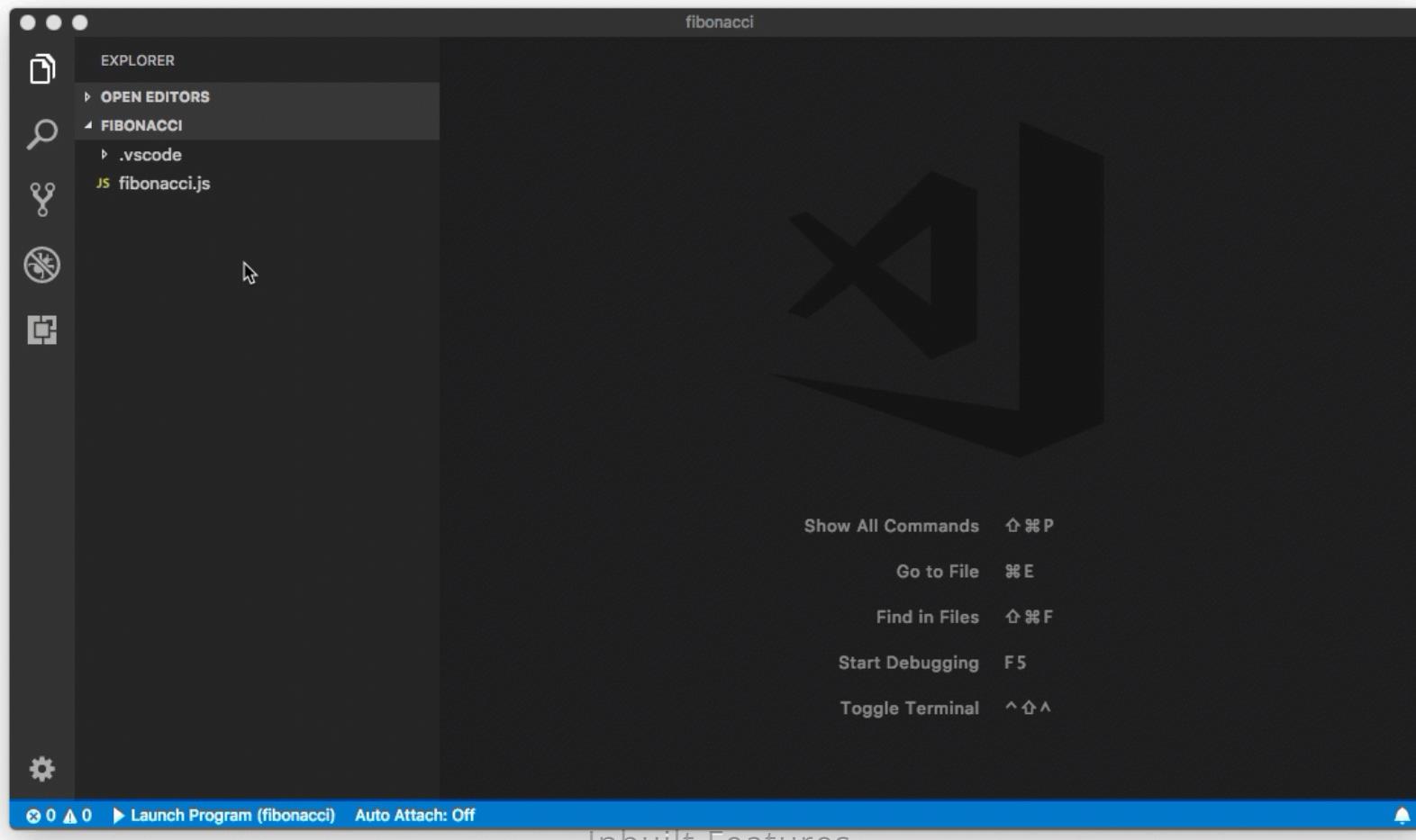
A screenshot of a code editor window titled "JS gulpfile.js > gulp.task('build-dist') callback". The code editor displays the following JavaScript code:

```
JS gulpfile.js > gulp.task('build-dist') callback
21  gulp.task('build-dist', done => {
22    if (!$.which('git')) {
23      $.echo('This command requires git')
24      $.exit(1)
25      done()
26    }
27
28    // Go to _build
29    if (!$.test('-e', '_build')) {
30      $.mkdir('_build')
31    }
32    $.cd('_build')
```

The code editor features vertical ruler lines at the right edge of the code area, indicating specific line lengths or column positions. The first ruler line is positioned at approximately column 75, and the second ruler line is positioned at approximately column 150.

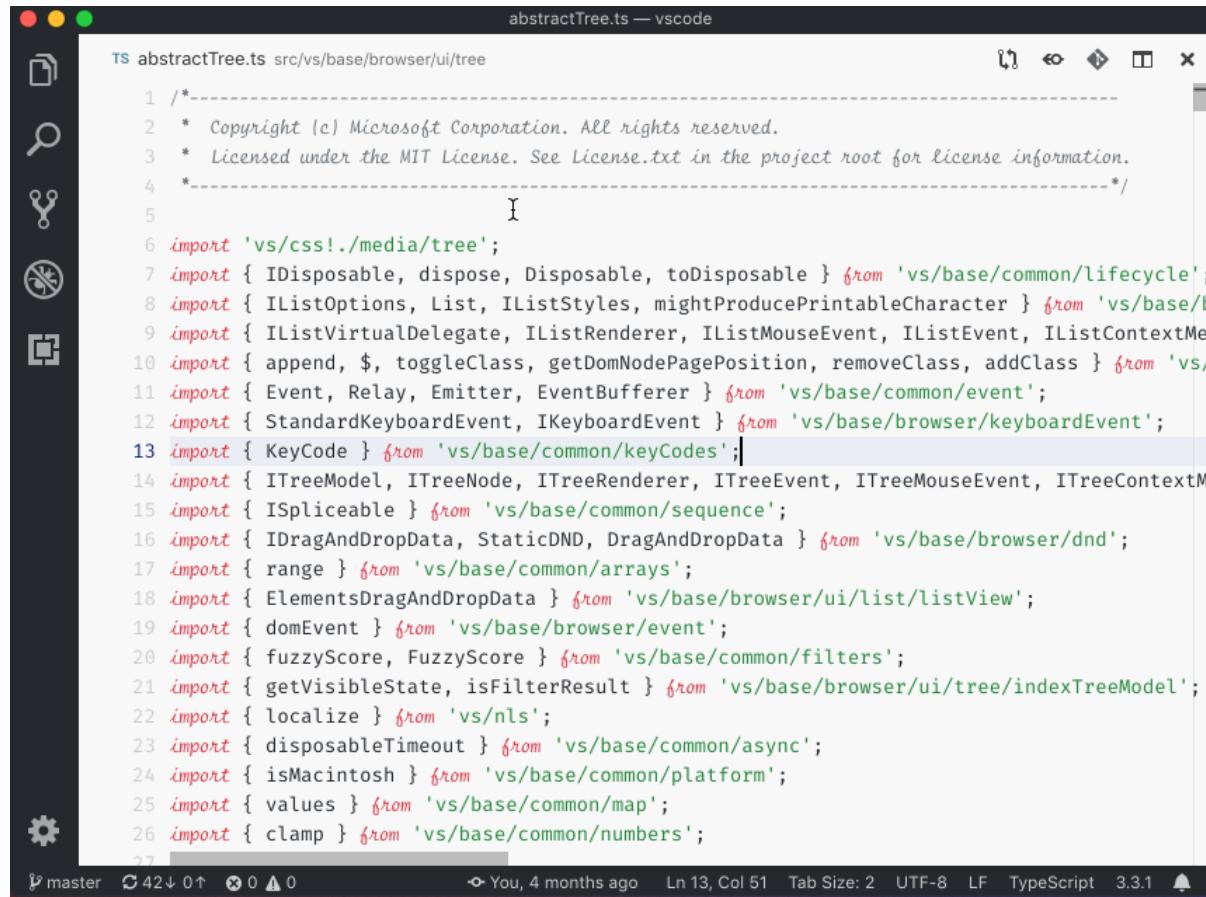
LogPoints

Non-breaking log points to show logging



Inbuilt Features

Screencast Mode



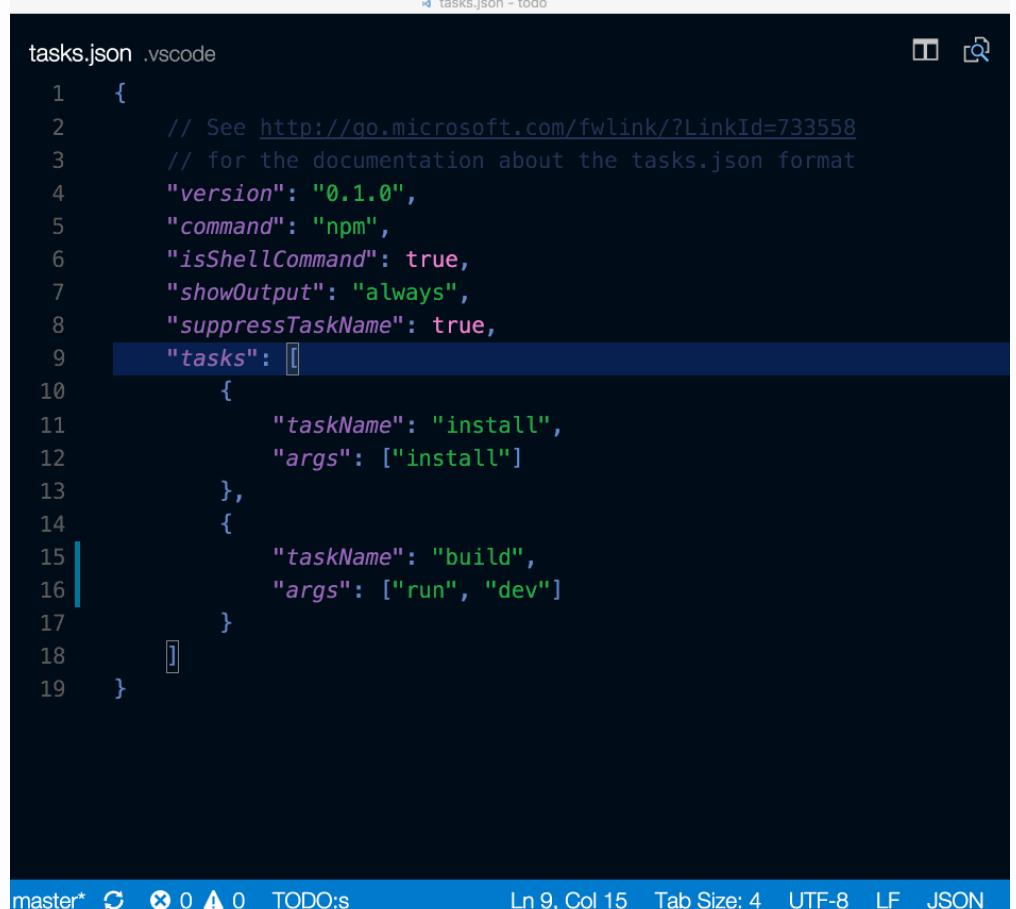
A screenshot of the Visual Studio Code (VS Code) interface in dark mode. The main editor tab is titled "abstractTree.ts — vscode". The code editor displays the "abstractTree.ts" file from the "src/vs/base/browser/ui/tree" directory. The code is a TypeScript file containing numerous import statements from the "vs" namespace, including various interfaces and classes related to tree rendering and events. The status bar at the bottom shows the file path, a gear icon, and other system information like the current branch ("master"), commit hash ("42d0000000000000000000000000000000000000"), and the date ("4 months ago").

```
abstractTree.ts — vscode
TS abstractTree.ts src/vs/base/browser/ui/tree
1 /**
2  * Copyright (c) Microsoft Corporation. All rights reserved.
3  * Licensed under the MIT License. See License.txt in the project root for license information.
4 */
5
6 import 'vs/css!./media/tree';
7 import { IDisposable, dispose, Disposable, toDisposable } from 'vs/base/common/lifecycle';
8 import { IListOptions, List, IListStyles, mightProducePrintableCharacter } from 'vs/base/b
9 import { IListVirtualDelegate, IListRenderer, IListMouseEvent, IListEvent, IListContextMe
10 import { append, $, toggleClass, getDomNodePagePosition, removeClass, addClass } from 'vs/
11 import { Event, Relay, Emitter, EventBufferer } from 'vs/base/common/event';
12 import { StandardKeyboardEvent, IKeyboardEvent } from 'vs/base/browser/keyboardEvent';
13 import { KeyCode } from 'vs/base/common/keyCodes';
14 import { ITreeModel, ITreeNode, ITreeRenderer, ITreeEvent, ITreeMouseEvent, ITreeContextM
15 import { ISpliceable } from 'vs/base/common/sequence';
16 import { IDragAndDropData, StaticDND, DragAndDropData } from 'vs/base/browser/dnd';
17 import { range } from 'vs/base/common/arrays';
18 import { ElementsDragAndDropData } from 'vs/base/browser/ui/list/listView';
19 import { domEvent } from 'vs/base/browser/event';
20 import { fuzzyScore, FuzzyScore } from 'vs/base/common/filters';
21 import { getVisibleState, isFilterResult } from 'vs/base/browser/ui/tree/indexTreeModel';
22 import { localize } from 'vs/nls';
23 import { disposableTimeout } from 'vs/base/common/async';
24 import { isMacintosh } from 'vs/base/common/platform';
25 import { values } from 'vs/base/common/map';
26 import { clamp } from 'vs/base/common/numbers';
27
```

master 42d0000000000000000000000000000000000000 You, 4 months ago Ln 13, Col 51 Tab Size: 2 UTF-8 LF TypeScript 3.3.1

Task Runners

Run tasks like build,
test and other custom
tasks in Task Runners.



The screenshot shows the VS Code code editor with a dark theme. A tab at the top is labeled "TASKS.JSON - TODO". The main area displays the contents of a "tasks.json" file:

```
tasks.json .vscode
1  {
2      // See http://go.microsoft.com/fwlink/?LinkId=733558
3      // for the documentation about the tasks.json format
4      "version": "0.1.0",
5      "command": "npm",
6      "isShellCommand": true,
7      "showOutput": "always",
8      "suppressTaskName": true,
9      "tasks": [
10         {
11             "taskName": "install",
12             "args": ["install"]
13         },
14         {
15             "taskName": "build",
16             "args": ["run", "dev"]
17         }
18     ]
19 }
```

The status bar at the bottom indicates the file is "master*" and shows various icons and statistics: "0 0 0 0 TODO:s", "Ln 9, Col 15", "Tab Size: 4", "UTF-8", "LF", and "JSON".

Remote Development

Remote Description

Remote via SSH

Connect to remote machines with Visual Studio Code via SSH.

Work in WSL

Work in Windows Subsystem for Linux.

Develop in Containers

Work in a Docker Container.

GitHub Codespaces

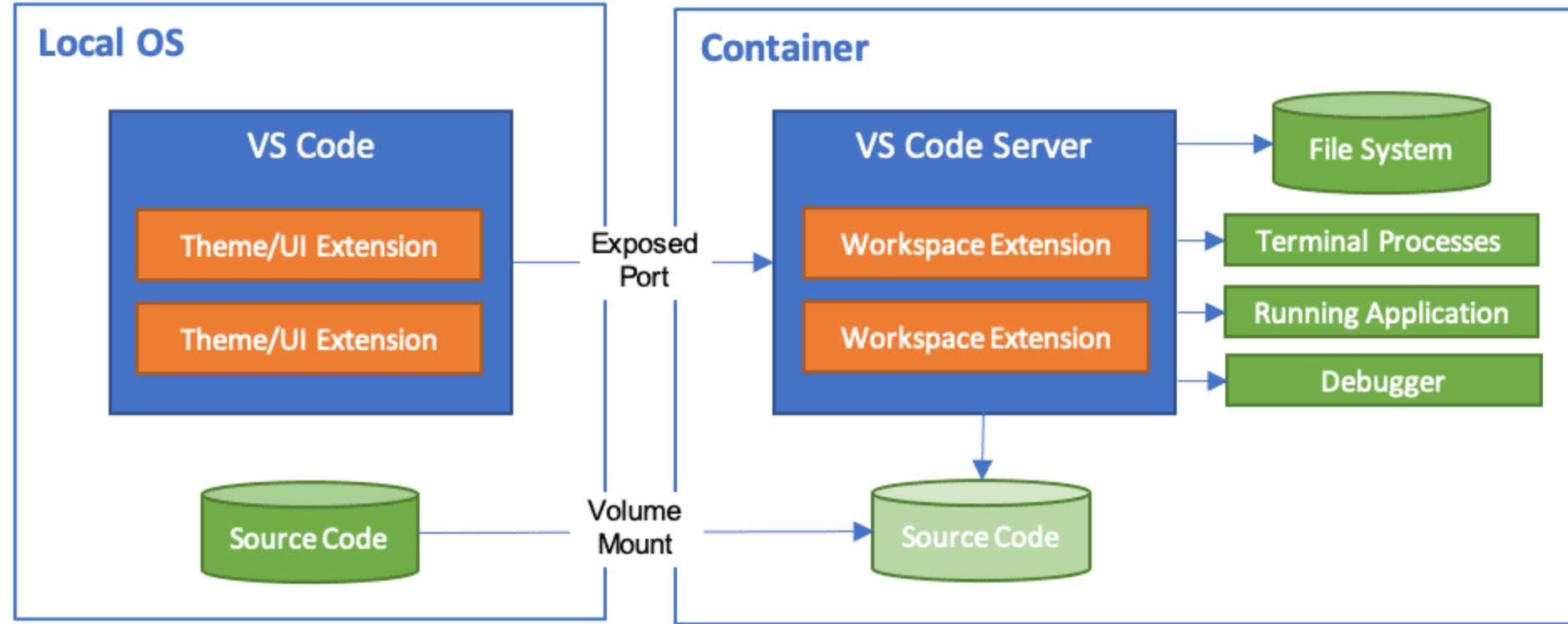
Work in codespace with Visual Studio Code.

Inbuilt Features

Dev Containers

A `devcontainer.json` file in your project tells VS Code how to access (or create) a development container with a well-defined tool and runtime stack.

<https://code.visualstudio.com/docs/devcontainers/containers>



Extensions

Install extensions with `ctrl+shift+x`. You can add to the workspace `@recommended` extensions for a project.

Most Popular extensions can be found with
`@popular`

 Jupyter Microsoft  microsoft.com  72.6M Jupyter notebook support, interactive programming and computing that supports...  	 Extension Pack for Java Microsoft  microsoft.com  23.4M Popular extensions for Java development that provides Java IntelliSense, debugging...  	 C/C++ Extension Pack Microsoft  microsoft.com  23M Popular extensions for C++ development in Visual Studio Code.  	 Python Extension Pack Don Jayamanne   7M Popular Visual Studio Code extensions for Python  	 Remote Development Microsoft  microsoft.com  4.8M An extension pack that lets you open any folder in a container, on a remote...  	 PHP Extension Pack Xdebug  xdebug.org  4.5M Everything you need for PHP development  
---	---	---	---	--	--

 Live Sass Compiler Ritwick Dey   2.5M Compile Sass or Scss to CSS at realtime with live browser reload.  	 json ZainChen   2.1M Json for Visual Studio Code  	 Auto Complete Tag Jun Han   2M Extension adds autocomplete tag and paired tag automatically for HTML/XML  	 Spring Boot Extension VMware   1.9M Collection of extensions for developing Spring Boot applications  	 Git Extension Pack Don Jayamanne   1.6M Popular Visual Studio Code extensions for Git  	 Live Sass Compiler Glenn Marks   1.4M Compile Sass or Scss to CSS at realtime.  
---	---	--	---	--	---

 Salesforce Extension Salesforce   1.2M Extensions for developing on the Salesforce Platform  	 Angular Essentials (Vue) John Papa   1.2M Essential extensions for Angular developers  	 Unity Tools Avin Zarlez   1.2M Various tools to help with Unity development  	 Azure Tools Microsoft  microsoft.com  1M Get web site hosting, SQL and MongoDB data, Docker  	 Node.js Extension Pack Wade Anderson   980K Popular VS Code extensions for Node.js development.  	 Python Path Mathias Gesbert   868K Python imports utils.  
---	--	---	--	--	---

Marp

This slide deck written in Markdown within VSCode. I used the Marp extension preview it.

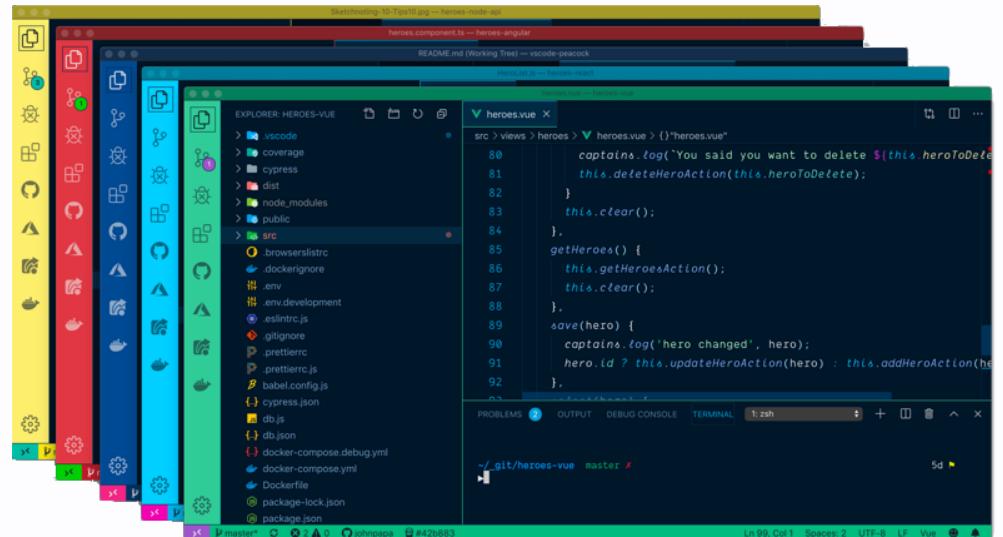
<https://marp.app/>

Marp has a CLI - so this slide has a CICD pipeline 😊

Peacock

Working on multiple projects?
Colour code them

[Link](#)



C# Dev Kit

Official C# extension from Microsoft

- Project System / Solution Explorer
- Code Editing (Uses the C# extension)
- Package Management
- Debugging
- Testing

C# Dev Kit

IntelliCode

AI-assisted
development features
for Python,
TypeScript/JavaScript
and Java developers

IntelliCode

```
loss = tf.reduce_sum(tf.square(linear_model - y))  
optimizer = tf.train.GradientDescentOptimizer(0.01)  
  
train = optimizer
```

The screenshot shows the Visual Studio Code interface. On the left, the code editor displays an HTML file named 'index.html' with the following content:

```
<nav>
  <ul>
    <li class="current"><a href="index.html">Home</a></li>
    <li><a href="about.html">About</a></li>
    <li><a href="services.html">Services</a></li>
  </ul>
</nav>
</div>
</header>

<section id="showcase">
  <div class="container">
    <h1>Web Design</h1>
    <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.</p>
  </div>
</section>

<section id="newsletter">
  <div class="container">
    <h2>Subscribe To Our Newsletter</h2>
    <form>
      <input type="email" placeholder="Enter Email...">
      <button type="submit" class="button_1">Subscribe</button>
    </form>
  </div>
</section>
```

On the right, a browser window shows a guest message: "You're browsing as a Guest". Below the message is a note: "Pages you view in this window won't appear in the browser history and they won't leave other traces, like cookies, on the computer after you close all open Guest windows. Any files you download will be preserved, however." There is a "LEARN MORE" link at the bottom.

LiveServer

Launch a development local Server with live reload feature for static & dynamic pages

LiveServer

GitHub Copilot

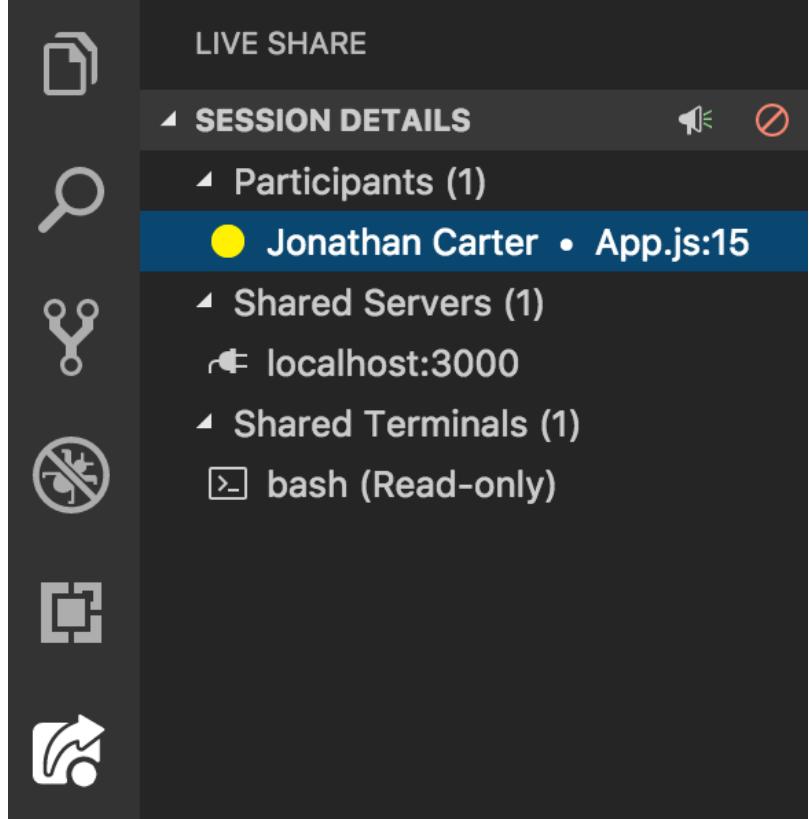
Name: GitHub Copilot

Id: GitHub.copilot

Description: Your AI
pair programmer

GitHub Copilot

```
1 def common_prefix(a, b):
2     """Return the common prefix of two lists."""
3     if len(a) < len(b):
4         return common_prefix(b, a)
5     for i in range(len(a)):
6         if a[i] != b[i]:
7             return a[:i]
8     return a
9
10
11 }
```



LiveShare

Real-time collaborative development from the comfort of your favourite tools.

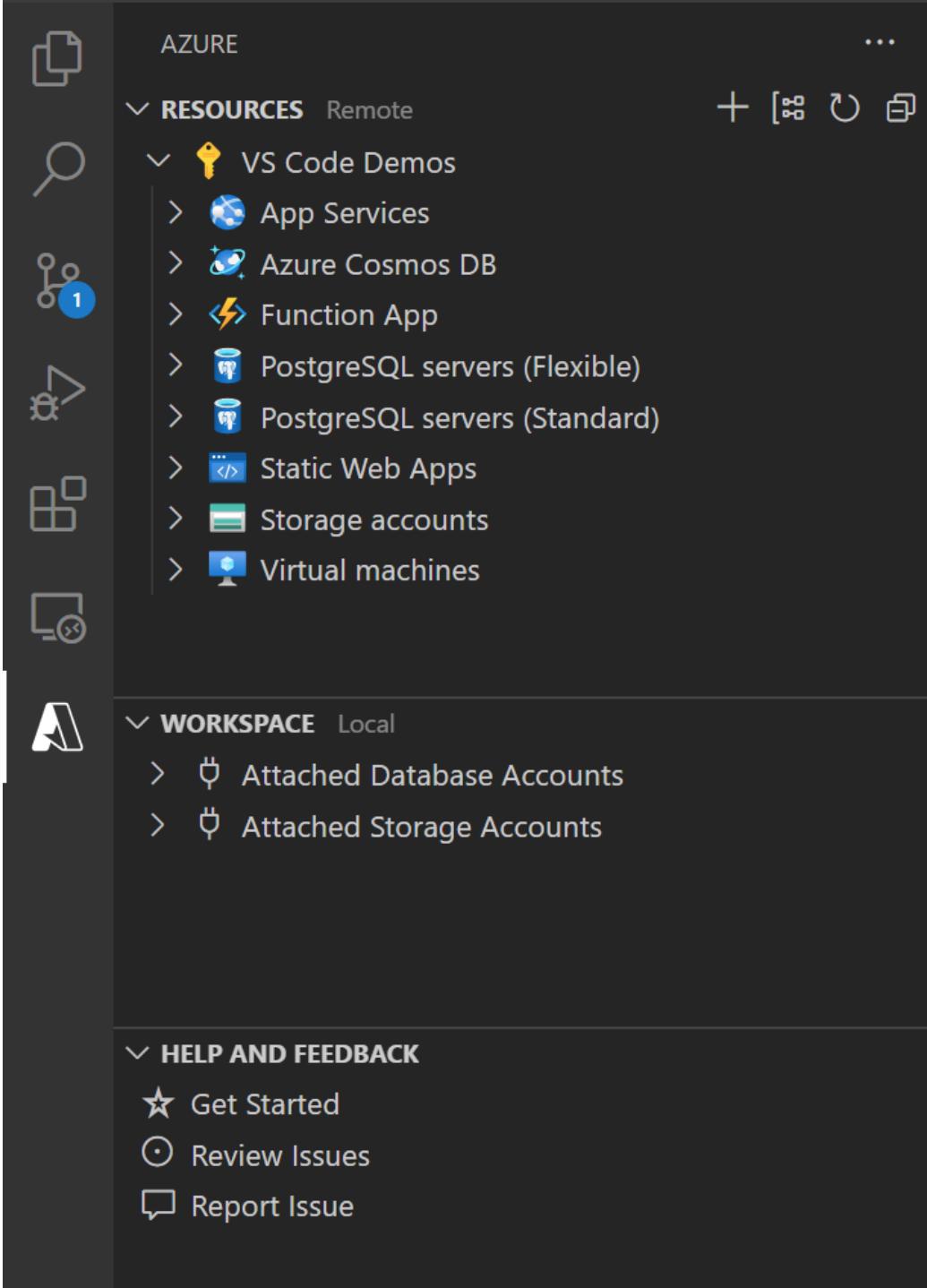
[LiveShare / Docs](#)

Jira and Bitbucket

Bringing the power of Jira and Bitbucket to VS Code

- You can create and view issues
- Start work on issues
- Create pull requests
- Do code reviews
- Start builds
- Get build statuses and more!

Jira and Bitbucket



Azure Tools

Get web site hosting,
SQL and MongoDB
data, Docker
Containers, Serverless
Functions and more,
all on Azure.

Azure Tools

AWS Toolkit

Including
CodeWhisperer,
CodeCatalyst, and
support for Lambda,
S3, CloudWatch Logs,
and many other
services

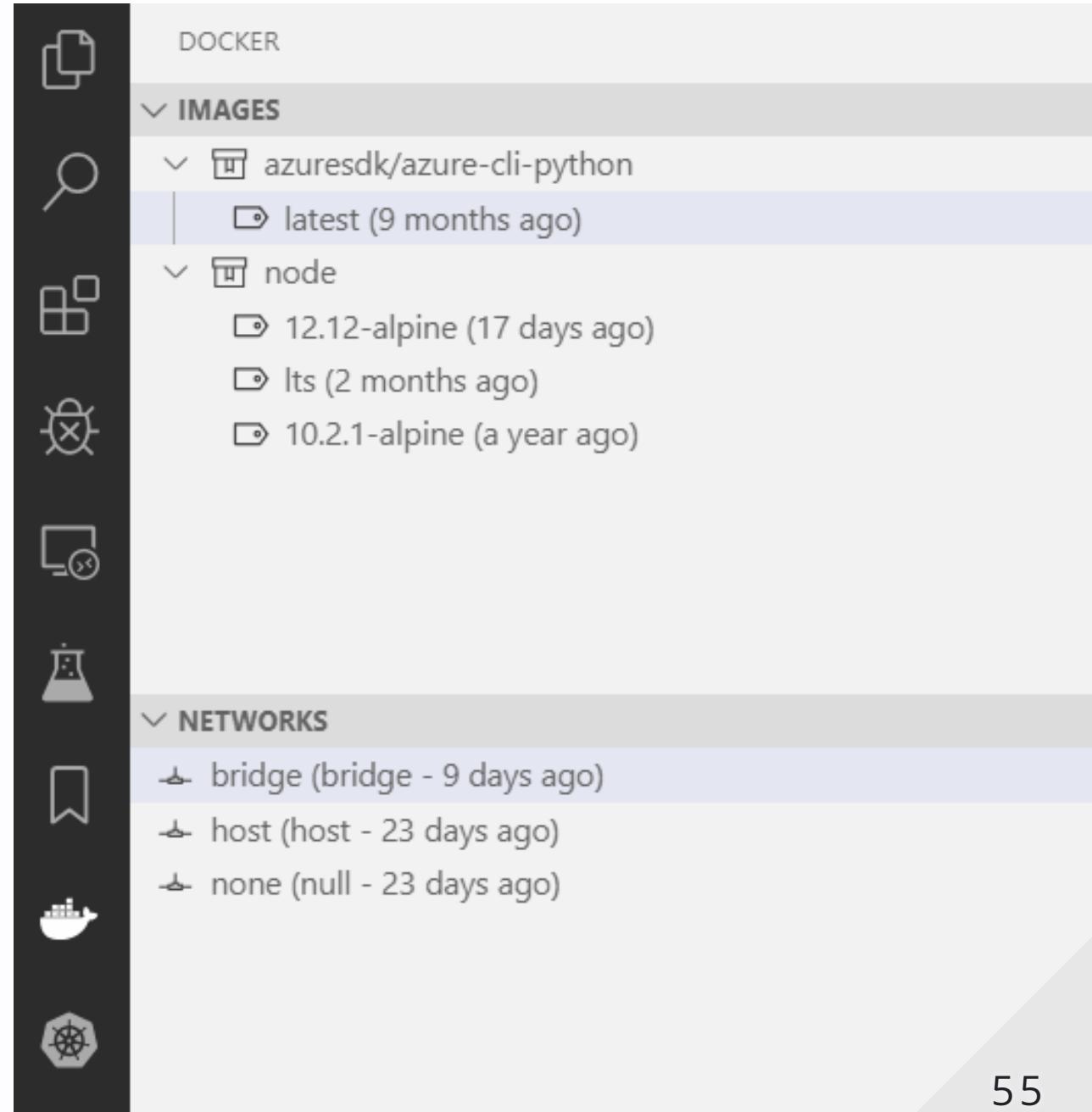
AWS Toolkit

Docker

Makes it easy to
create, manage, and
debug containerized
applications.

Docker

Extensions



Error Lens

Improve highlighting of errors, warnings and other language diagnostics.

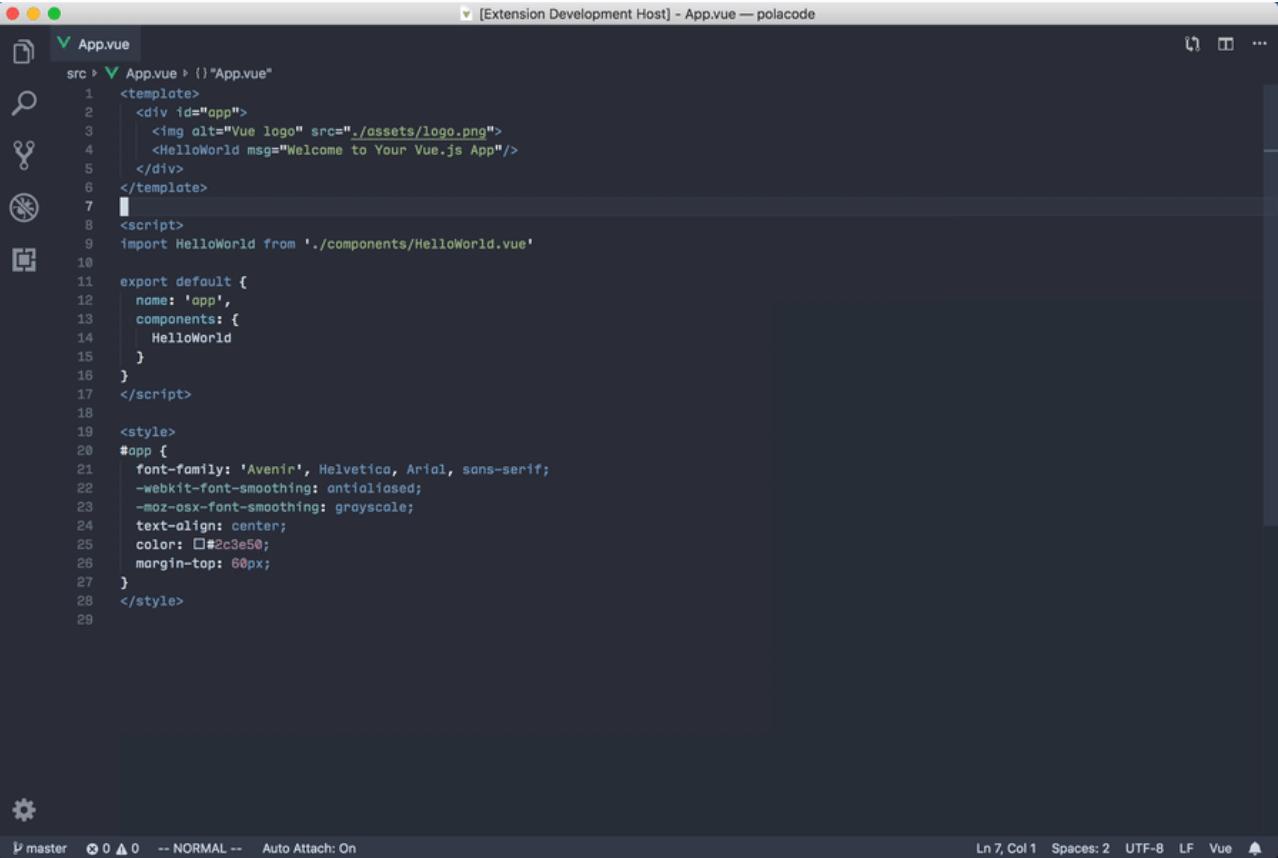
Error Lens

```
vscode.workspace.onDidOpenTextDocument(textDocument => {
  updateDecorationsForUri(textDocument.uri) Missing semicolon (semicolon)
}, undefined, context.subscriptions; ')' expected.
```

Polacode

 Polaroid for your code. Take screenshots of your code

Polacode



```
src > App.vue > () "App.vue"
1  <template>
2    <div id="app">
3      
4      <HelloWorld msg="Welcome to Your Vue.js App"/>
5    </div>
6  </template>
7
8  <script>
9  import HelloWorld from './components/HelloWorld.vue'
10
11 export default {
12   name: 'app',
13   components: {
14     HelloWorld
15   }
16 }
17 </script>
18
19 <style>
20 #app {
21   font-family: 'Avenir', Helvetica, Arial, sans-serif;
22   -webkit-font-smoothing: antialiased;
23   -moz-osx-font-smoothing: grayscale;
24   text-align: center;
25   color: #2c3e50;
26   margin-top: 60px;
27 }
28 </style>
29
```

Polygot Notebooks

Polyglot Notebooks for VS Code. Use multiple languages in one notebook with full language server support for each language and share

[Polygot Notebooks](#)

API Clients

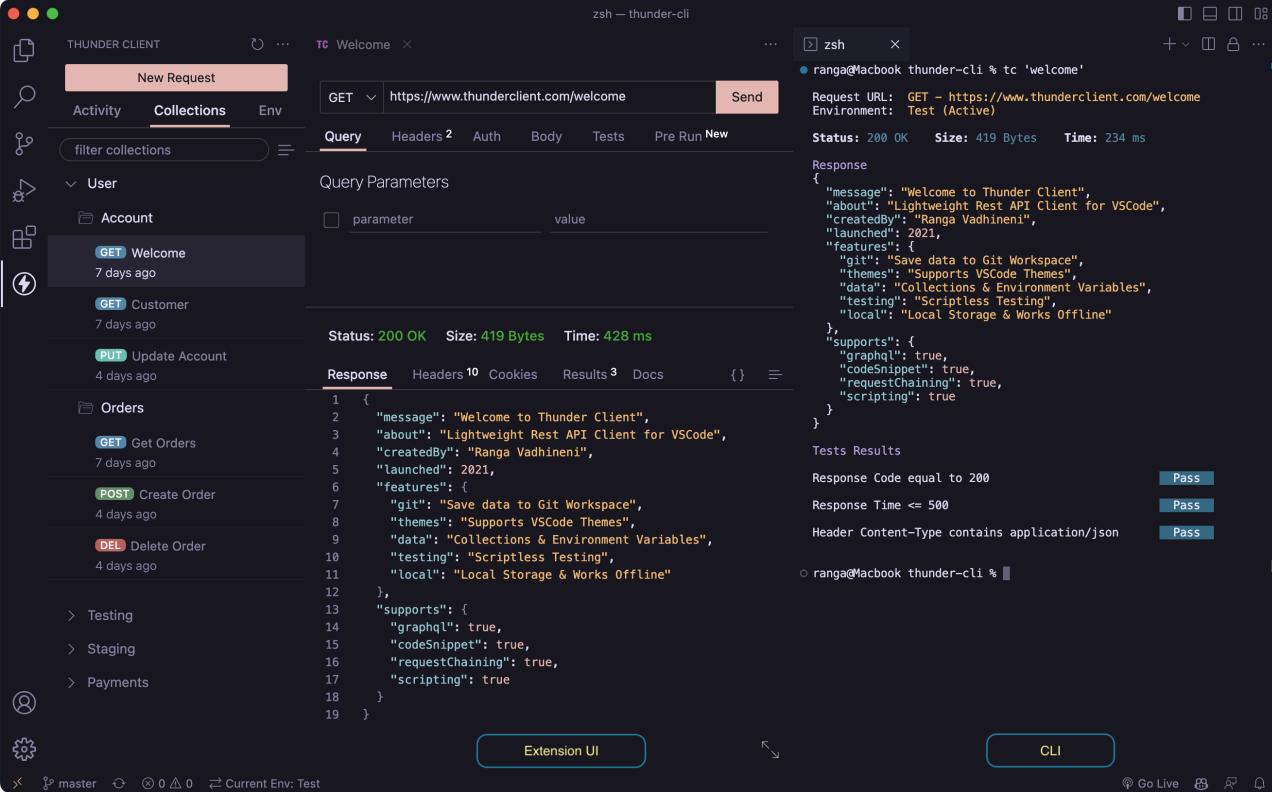
REST Client

```
GET https://example.com/topics/1 HTTP/1.1  
  
POST https://example.com/comments HTTP/1.1  
content-type: application/json  
  
{  
  "name": "sample",  
  "time": "Wed, 21 Oct 2015 18:27:50 GMT"  
}
```

```
curl https://www.google.com
```

Thunder Client

Lightweight Rest API Client for VS Code



A screenshot of the Visual Studio Code (VS Code) interface. The title bar shows the path: ~/Projects/vscode-extensions/todo-tree/src/extension.js — todo-tree. The left sidebar has icons for file, search, preview, and other extensions. The main area shows a tree view titled 'TODOS: TREE (18)' with a search bar below it. The tree lists several files and their contents, including 'extension.js' which contains a 'TODO Fix this!' comment. The bottom status bar shows 'TERMINAL PROBLEMS 18 DEBUG CONSOLE TIMELINE OUTPUT'. The terminal tab is active, displaying the output of a command: 'ok 56 searchResults can be cleared', followed by a series of numbers and symbols. The bottom right corner of the status bar shows 'Git Graph ⌘ 1 TODO: 13 [x]: 1 [:] 3'.

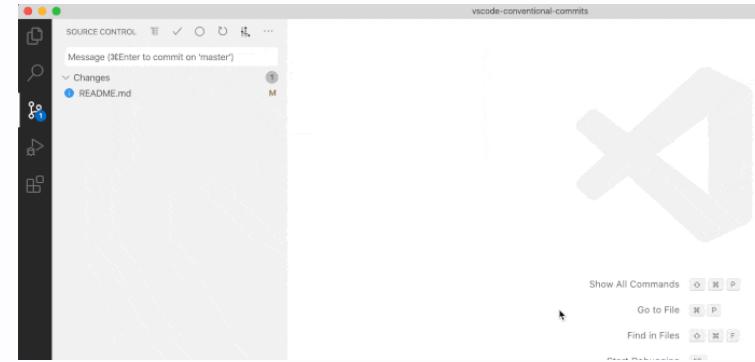
TODO Tree

TODO Tree

Conventional Commits

```
<type>[optional scope]: <description>  
[optional body]  
[optional footer(s)]
```

Conventional Commits
conventionalcommits.org



```
2 export class MyClass {  
3  
4     /**  
5      * MyMethod  
6      * * Important information is highlighted  
7      * ! Deprecated method, do not use  
8      * ? Should this method be exposed in the public API?  
9      * TODO: refactor this method so that it conforms to the API  
10     * @param myParam The parameter for this method  
11     */  
12    public MyMethod(myParam: any): void {  
13        let myVar: number = 123;  
14  
15        /* This is highlighted  
16        if (myVar > 0) {  
17            throw new TypeError(); //! This is an alert  
18        }  
19  
20        //? This is a query  
21        let x = 1;  
22  
23        //!!! this.lineOfCode() === commentedOut;  
24  
25        //TODO: Create some test cases  
26    }  
27 }
```

Better Comments

Better Comments
colour codes your
commit messages

Unique Lines

Unique Lines

Keep unique lines of text and remove duplicates from current selection. Also includes a command to shuffle currently selected lines.

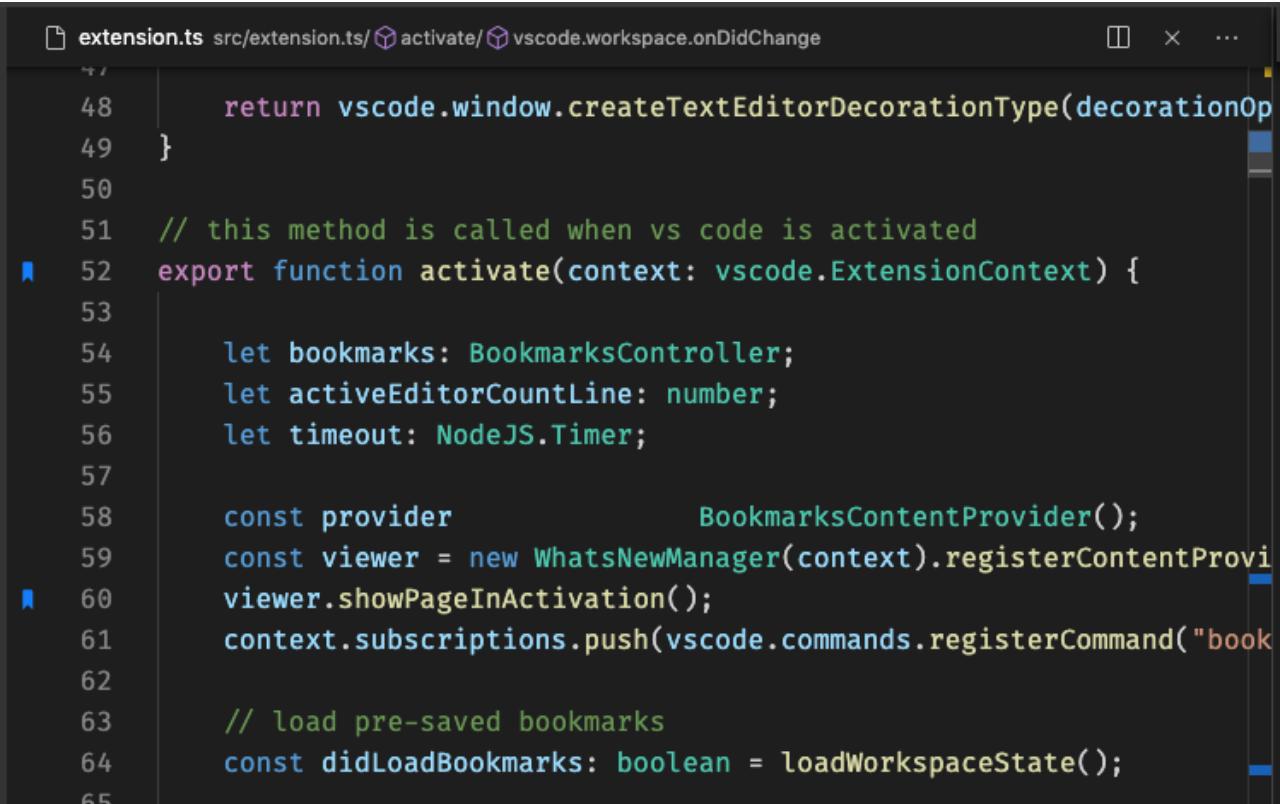
Encode Decode

Encode Decode

- Convert String to/from Base64, HTML Entities, JSON Byte Array, JSON String, Unicode, XML Entities
- Convert String to MD5/SHA1/SHA256/SHA512 (as Base64 or Hex)

Bookmarks

Bookmarks your code
and quickly jump to it.



A screenshot of the VS Code editor showing the `extension.ts` file. The code is written in TypeScript and defines an `activate` function for an extension context. The code initializes a `BookmarksController`, sets up a `WhatsNewManager` content provider, and registers commands for bookmarks. It also handles workspace changes and loads pre-saved bookmarks from workspace state.

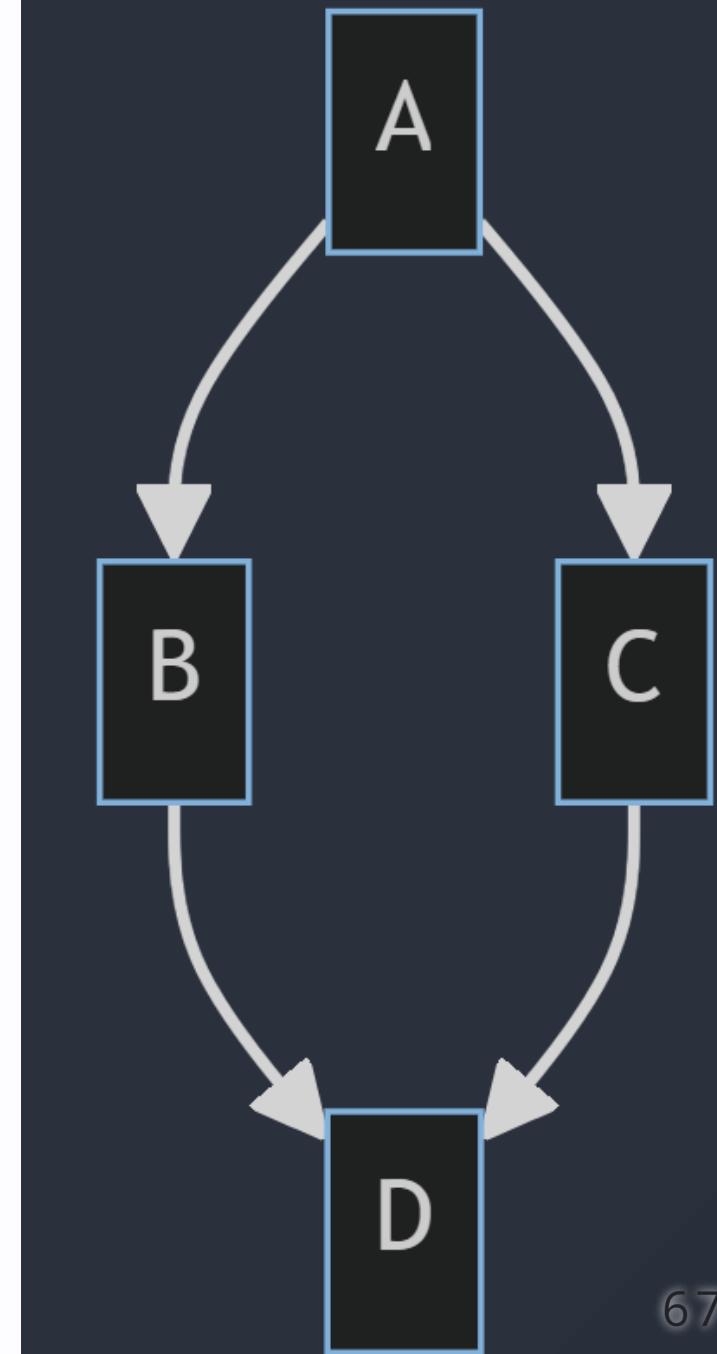
```
extension.ts src/extension.ts/ activate/ vscode.workspace.onDidChange
48     return vscode.window.createTextEditorDecorationType(decorationOp
49 }
50
51 // this method is called when vs code is activated
52 export function activate(context: vscode.ExtensionContext) {
53
54     let bookmarks: BookmarksController;
55     let activeEditorCountLine: number;
56     let timeout: NodeJS.Timer;
57
58     const provider           BookmarksContentProvider();
59     const viewer = new WhatsNewManager(context).registerContentProv
59     viewer.showPageInActivation();
60
61     context.subscriptions.push(vscode.commands.registerCommand("book
62
63     // load pre-saved bookmarks
64     const didLoadBookmarks: boolean = loadWorkspaceState();
```

Markdown Preview

Markdown Preview allows you to create Mermaid JS documents that can be included in Markdown documents (GitHub supports it).

```
graph TD;
    A-->B;
    A-->C;
    B-->D;
    C-->D;
```

Extensions



Mermaid JS can generate

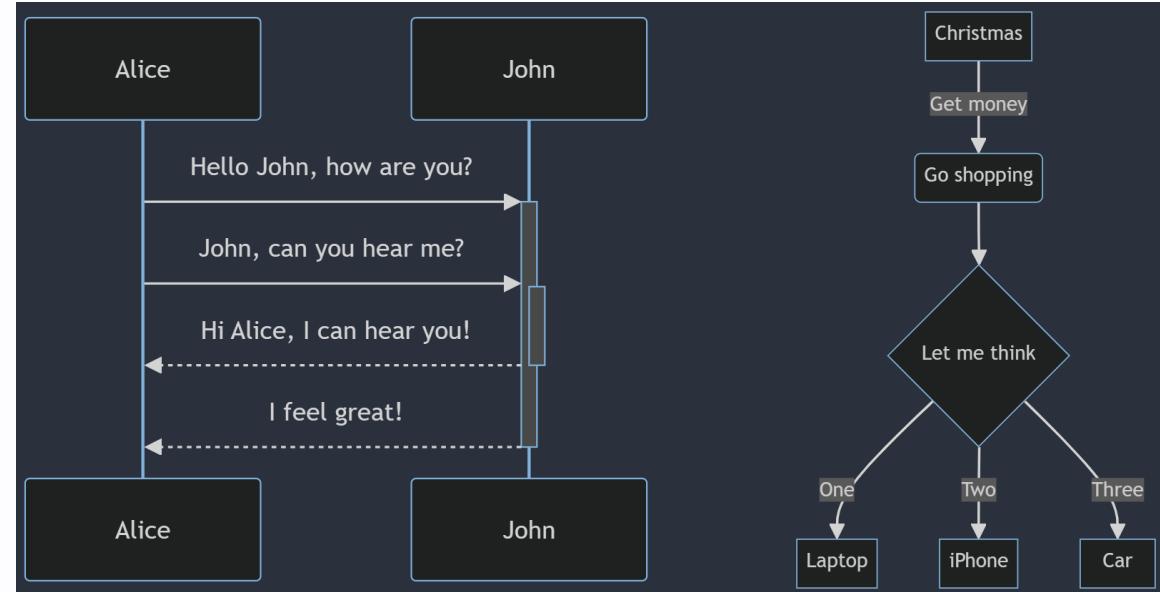
- Generate Flowchart
- Sequence Diagram
- Class Diagram
- State Diagram
- Entity Relationship Diagram
- User Journey
- Gantt
- Pie Chart
- Quadrant Chart
- Requirement Diagram

```
sequenceDiagram
```

```
    Alice->>+John: Hello John, how are you?  
    Alice->>+John: John, can you hear me?  
    John-->-Alice: Hi Alice, I can hear you!  
    John-->-Alice: I feel great!
```

```
flowchart TD
```

```
    A[Christmas] -->|Get money| B((Go shopping))  
    B --> C{Let me think}  
    C -->|One| D[Laptop]  
    C -->|Two| E[iPhone]  
    C -->|Three| F[fa:fa-car Car]
```



```
{} heroes.json ✘  
{} heroes.json > [ ]members > {}0 > [ ]powers  
1 {  
2   "squadName": "Super hero squad",  
3   "homeTown": "Metro City",  
4   "formed": 2016,  
5   "secretBase": "Super tower",  
6   "active": true,  
7   "members": [  
8     {  
9       "name": "Molecule Man",  
10      "age": 29,  
11      "secretIdentity": "Dan Jukes",  
12      "powers": [  
13        "Radiation resistance",  
14        "Turning tiny",  
15        "Radiation blast"  
16      ],  
17    },  
18    {  
19      "name": "Aykut Sarac",  
20      "age": 21,  
21      "secretIdentity": "John Doe",  
22      "powers": [  
23        "React",  
24        "TypeScript",  
25        "JavaScript"  
26      ],  
27    },  
28  ]
```

JSON Crack

JSON Crack seamlessly
visualize your JSON
data instantly into
graphs.

SemanticDif

f

Programming
language aware
diffs for Visual
Studio Code.

Semantic Diff

The screenshot shows a comparison between two versions of a Python file named 0077.py. The left pane shows the original code, and the right pane shows the updated code. The code is as follows:

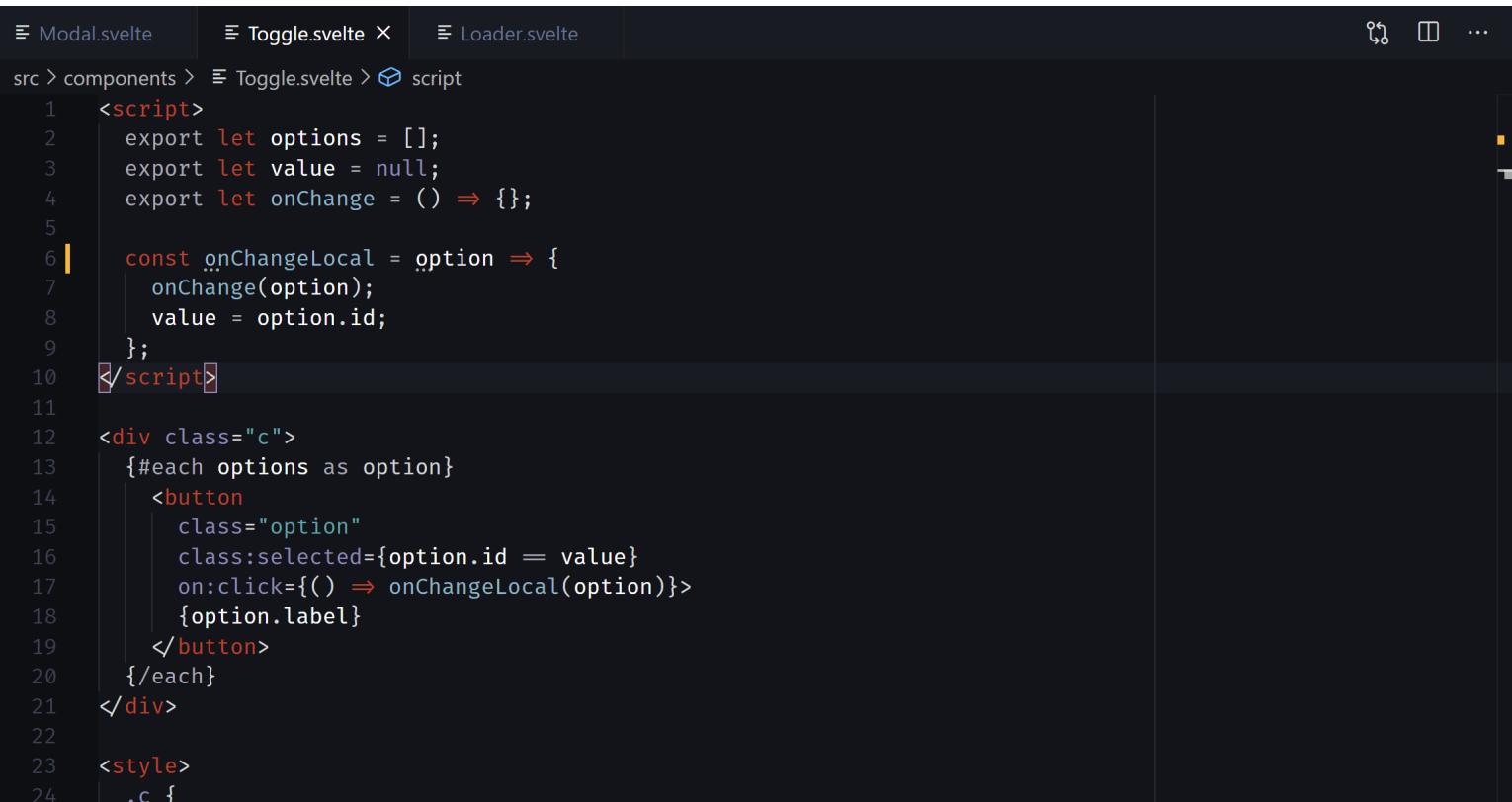
```
File Edit Selection View Go Run Terminal Help 0077.py - semanticdiff-testcases - Visual Studio Code
home > michael > projects > semanticdiff-testcases > python > 0077.py
1 import os
2 import hashlib
3
4 def print_hashes(path):
5     for file in os.listdir(path):
6         file_path = os.path.join(path, file)
7         if os.path.islink(file_path):
8             continue
9         if not os.path.isfile(file_path):
10            continue
11
12     def calc_hash(file_path):
13         h = hashlib.md5()
14         with open(file_path, "rb") as fp:
15             while True:
16                 data = fp.read(4096)
17                 if not data:
18                     break
19                 h.update(data)
20
21     return h
22
23
24     h = calc_hash(file_path)
25     print(f"{h.hexdigest()} {file}")
26
27 print_hashes(".")

1 import os
2 import hashlib
3
4 def calc_hash(file_path):
5+     h = hashlib.sha256()
6+     with open(file_path, "rb") as fp:
7+         while True:
8+             data = fp.read(4096)
9+             if data == b"":
10+                 break
11+             h.update(data)
12
13     return h
14
15+ def print_hashes(path):
16+     for file in os.listdir(path):
17+         file_path = os.path.join(path, file)
18+         if os.path.islink(file_path):
19+             continue
20+         if not os.path.isfile(file_path):
21+             continue
22+
23     h = calc_hash(file_path)
24     print(f"{h.hexdigest()} {file}")
25
26 print_hashes(".")

Ln 3, Col 1  Spaces: 4  UTF-8  Python  ⚙  ⌂
```

FootSteps

FootSteps
Highlight and
navigate
between your
most recently
edited chunks of
code

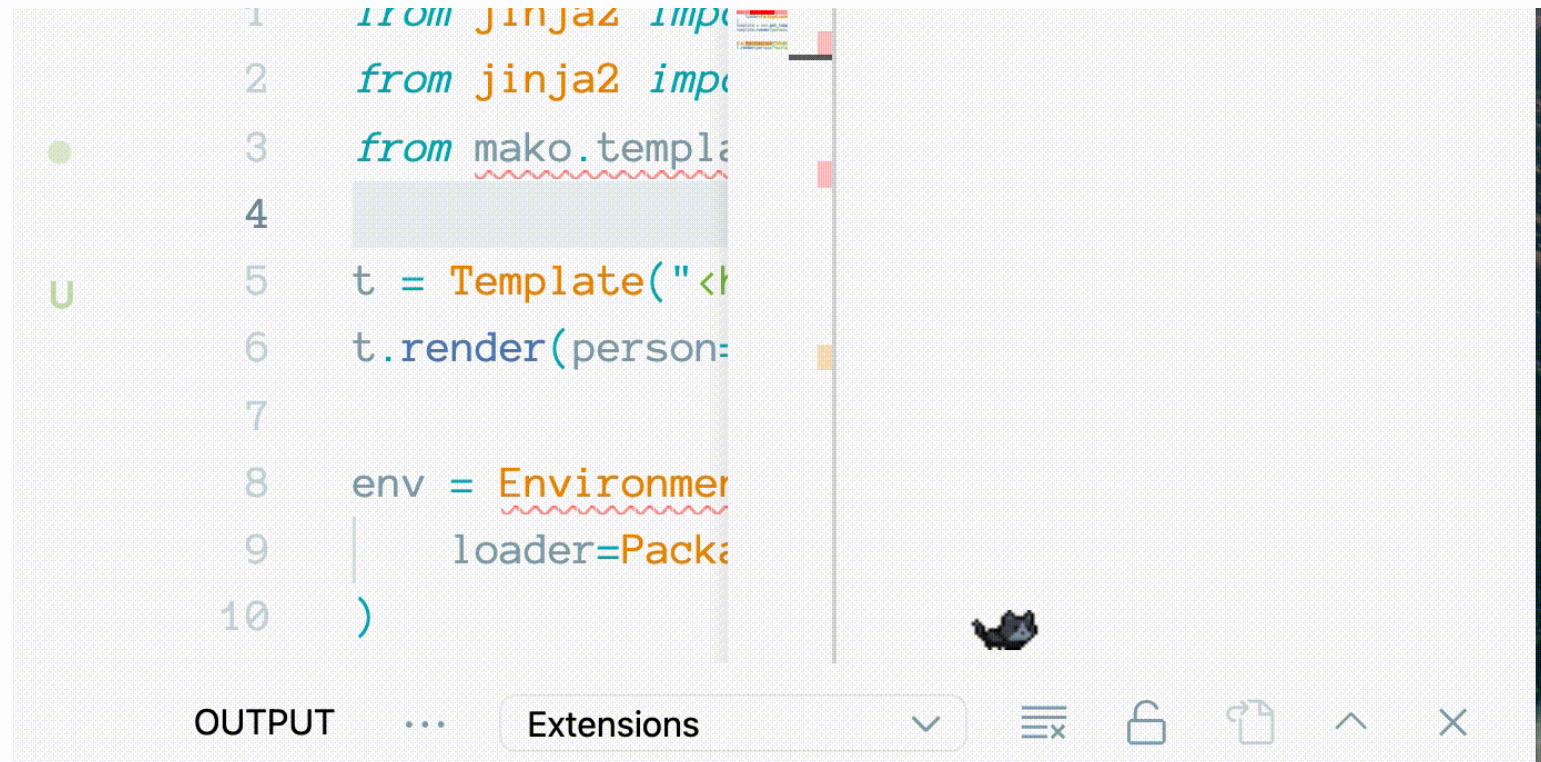


A screenshot of a code editor interface. At the top, there are three tabs: "Modal.svelte", "Toggle.svelte X", and "Loader.svelte". Below the tabs, the file "Toggle.svelte" is open, showing Svelte code. The code includes a script block with variable declarations and a function "onChangeLocal". It also contains a div with a class "c" containing a button for each option in the "options" array. The button has a "selected" class if its id matches the current value. An "on:click" event handler calls "onChangeLocal" with the selected option. A style block defines the ".c" class. The code editor's status bar at the bottom shows the file name "Toggle.svelte" and the line number "1".

```
src > components > Toggle.svelte > script
1 <script>
2   export let options = [];
3   export let value = null;
4   export let onChange = () => {};
5
6   const onChangeLocal = option => {
7     onChange(option);
8     value = option.id;
9   };
10 </script>
11
12 <div class="c">
13   {#each options as option}
14     <button
15       class="option"
16       class:selected={option.id == value}
17       on:click={() => onChangeLocal(option)}>
18       {option.label}
19     </button>
20   {/each}
21 </div>
22
23 <style>
24   .c {
```

Pets for your VS Code

Pets gives you a virtual pet to play with while you are coding.



```
1 from jinja2 import
2 from jinja2 import
3 from mako.template import
4
5 t = Template("{{ person.name }}")
6 t.render(person="John Doe")
7
8 env = Environment(
9     loader=PackageLoader("jinja2_mako"))
10 )
```

OUTPUT ... Extensions