

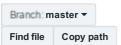
# All your code in one place

Dismiss

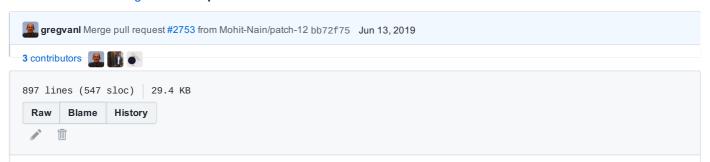
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#### vscode-docs / docs / getstarted / tips-and-tricks.md



Order	Area	TOCTitle	ContentId	PageTitle	DateApproved	MetaDescription
3	getstarted	Tips and Tricks	9bbbe55d- cf81-428f-8a9f- 4f60280cb874	Visual Studio Code Tips and Tricks	6/5/2019	Visual Studio Code Tips and Tricks for power users.

# **Visual Studio Code Tips and Tricks**

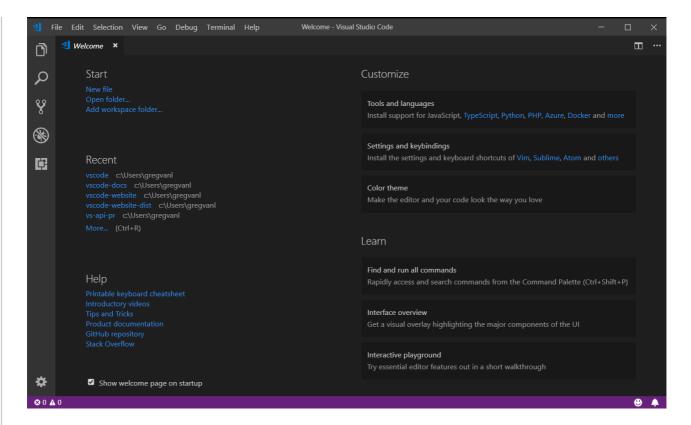
"Tips and Tricks" lets you jump right in and learn how to be productive with Visual Studio Code. You'll become familiar with its powerful editing, code intelligence, and source code control features and learn useful keyboard shortcuts. This topic goes pretty fast and provides a broad overview, so be sure to look at the other in-depth topics in Getting Started and the User Guide to learn more.

If you don't have Visual Studio Code installed, go to the Download page. You can find platform specific setup instructions at Running VS Code on Linux, macOS, and Windows.

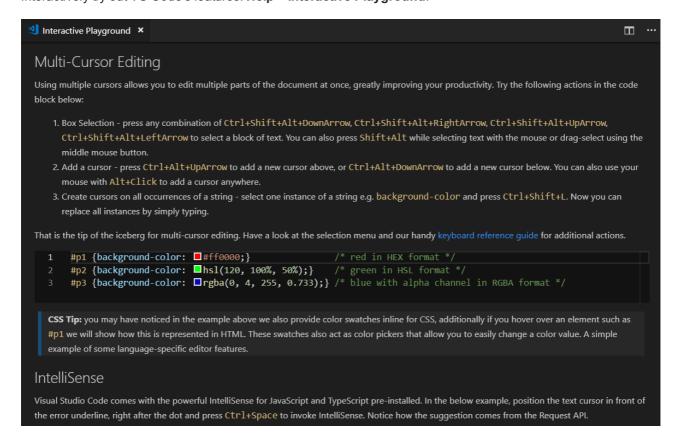
#### **Basics**

## **Getting started**

Open the **Welcome** page to get started with the basics of VS Code. **Help > Welcome**.



In the bottom right of the **Welcome** page, there is a link to the **Interactive playground** where you can interactively try out VS Code's features. **Help > Interactive Playground**.



#### **Command Palette**

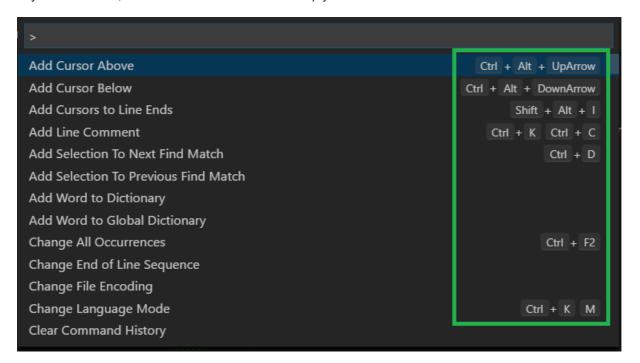
Access all available commands based on your current context.

Keyboard Shortcut: kb(workbench.action.showCommands)

```
App.js - sports-trivia
JS App.js
               import React from 'react';
      import {deepOrange500} from 'material-ui/styles/colors';
    import AppBar from 'material-ui/AppBar';
     import getMuiTheme from 'material-ui/styles/getMuiTheme';
      import MuiThemeProvider from 'material-ui/styles/MuiThemeProvider';
      import QuestionBar from './QuestionBar';
     const muiTheme = getMuiTheme({
      - palette: {
         accent1Color: deepOrange500,
     export default class App extends React.Component {
      constructor(props, context) {
      super(props, context);
       this.state = {};
```

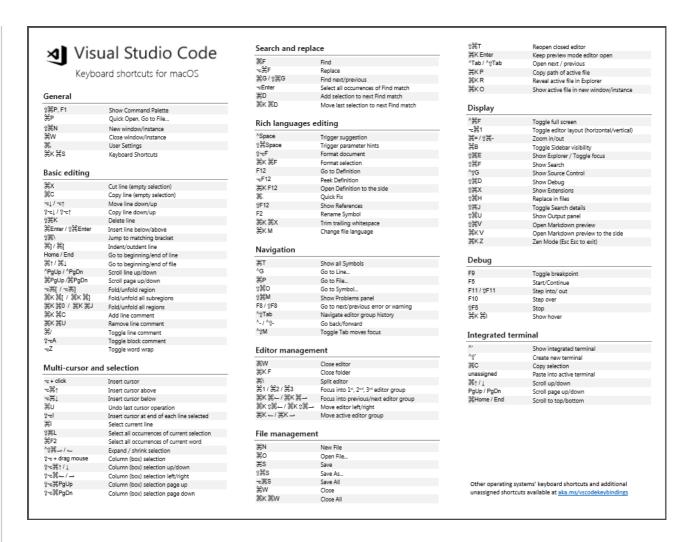
## **Default keyboard shortcuts**

All of the commands are in the **Command Palette** with the associated key binding (if it exists). If you forget a keyboard shortcut, use the **Command Palette** to help you out.



## **Keyboard reference sheets**

Download the keyboard shortcut reference sheet for your platform (macOS, Windows, Linux).



## **Quick Open**

Quickly open files.

Keyboard Shortcut: kb(workbench.action.quickOpen)



**Tip:** Type kbstyle(?) to view help suggestions.

## Navigate between recently opened files

Repeat the Quick Open keyboard shortcut to cycle quickly between recently opened files.

## Open multiple files from Quick Open

You can open multiple files from **Quick Open** by pressing the Right arrow key. This will open the currently selected file in the background and you can continue selecting files from **Quick Open**.

### **Command line**

VS Code has a powerful command line interface (CLI) which allows you to customize how the editor is launched to support various scenarios.

Make sure the VS Code binary is on your path so you can simply type 'code' to launch VS Code. See the platform specific setup topics if VS Code is added to your environment path during installation (Running VS Code on Linux, macOS, Windows).

```
# open code with current directory
code .
# open the current directory in the most recently used code window
code -r .
# create a new window
code -n
# change the language
code --locale=es
# open diff editor
code --diff <file1> <file2>
# open file at specific line and column <file:line[:character]>
code --goto package.json:10:5
# see help options
code --help
# disable all extensions
code --disable-extensions .
```

#### .vscode folder

Workspace specific files are in a .vscode folder at the root. For example, tasks.json for the Task Runner and launch.json for the debugger.

## Status Bar

## **Errors and warnings**

Keyboard Shortcut: kb(workbench.actions.view.problems)

Quickly jump to errors and warnings in the project.

Cycle through errors with kb(editor.action.marker.nextInFiles) or kb(editor.action.marker.prevInFiles)

You can filter problems either by type ('errors', 'warnings') or text matching.

## Change language mode

Keyboard Shortcut: kb(workbench.action.editor.changeLanguageMode)

```
田原
                              NewNote.js src/components/NewNote
       EXPLORER
O
                                    import React, {Component} from 'react';

▲ WORKING FILES

                                    import TextField from 'material-ui/lib/text-field';
        App.js src/components...
Q
         .eslintrc
                                    class NewNote extends Component {
      package.json src/com...
                                        constructor() {
      ⊿ TODO

    b dist

8
       ▶ node_modules
                                        render() {
       <div>
         <TextField hintText="New note"/><br/>
                                                </div>
             App.js
             App.scss
             package.json

▲ NewNote

                                    export default NewNote;
             package.json

■ Notes

             Notes.js
             package.json
            README.md
          client.js
          index.html
          variables.scss
Ln 14, Col 19 Spaces: 4 UTF-8 LF JavaScript
```

If you want to persist the new language mode for that file type, you can use the **Configure File Association for** command to associate the current file extension with an installed language.

### Customization

There are many things you can do to customize VS Code.

- Change your theme
- · Change your keyboard shortcuts

- Tune your settings
- Add JSON validation
- · Create snippets
- Install extensions

## Change your theme

Keyboard Shortcut: kb(workbench.action.selectTheme)

You can install more themes from the VS Code extension Marketplace.

```
EXPLORER
                                  Js database.js x
              11 🖆 🖒 🗊
                                        var fs = require('fs');
▶ .vscode
                                        var _ = require('lodash');
▶ angular2
                                        var promise = require('promise');

■ express

 ▶ data
                                        var DATA = 'data/todos.json';
                                        var PRETTIFY_WS = 4;
   Js database.js
   Js server.js
                                        module.exports.getAll = function() {

    react

                                          return new Promise(function(resolve, reject) {

■ app
                                               fs.readFile(DATA, function(err, data) {
   if (err) {
                                                        reject(err);
     ■ App
                                                } else {
        # App.css
                                                        resolve(JSON.parse(data));
        JS App.js
     ■ QuestionBar
                                                ·});
                                            ·});
        JS QuestionBar.js
     JS client.js
     favicon.png
                                        module.exports.commit = function(data) {
     return new Promise(function(resolve, reject) {
     index.html
                                                fs.writeFile(DATA, JSON.stringify(data, null, PRETTIFY)
```

Additionally, you can install and change your File Icon themes.

```
EXPLORER
              ተነ 🖆 ዕ
                                  JS database.js x
                                         var fs = require('fs');
.vscode
                                         var _ = require('lodash');
▶ angular2
                                         var promise = require('promise');

■ express

 ▶ data
                                         var DATA = 'data/todos.json';
   JS database.js
                                         var PRETTIFY_WS = 4;
   JS server.js
                                         module.exports.getAll = function() {

    react

                                         return new Promise(function(resolve, reject) {

■ app
                                               fs.readFile(DATA, function(err, data) {

▲ components

                                                 if (err) {
                                                         reject(err);
     ■ App
                                             ····} else {
         # App.css
                                                         resolve(JSON.parse(data));
        JS App.js

■ QuestionBar

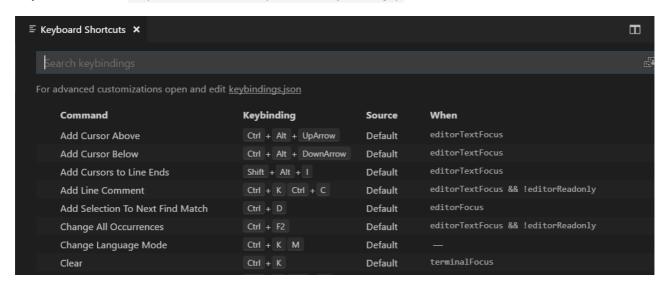
                                         ·····});
         JS QuestionBar.js
                                           ···});
     JS client.js
     favicon.png
                                         module.exports.commit = function(data) {
     return new Promise(function(resolve, reject) {
     index.html
                                                 fs.writeFile(DATA, JSON.stringify(data, null, PRETTIFY
```

Are you used to keyboard shortcuts from another editor? You can install a Keymap extension that brings the keyboard shortcuts from your favorite editor to VS Code. Go to **Preferences** > **Keymap Extensions** to see the current list on the Marketplace. Some of the more popular ones:

- Vim
- Sublime Text Keymap
- Emacs Keymap
- Atom Keymap
- Eclipse Keymap

## Customize your keyboard shortcuts

Keyboard Shortcut: kb(workbench.action.openGlobalKeybindings)



You can search for shortcuts and add your own keybindings to the keybindings.json file.

```
... JS keybindings.json x

... stablePeek" },

": ...
... stablePeek" },

": ... stablePeek" },

": ...
... stablePeek" },

": ... stablePeek" },

": ...
... stablePeek" },

": ... stablePeek" },

": ...
... st
```

See more in Key Bindings for Visual Studio Code.

#### Tune your settings

By default VS Code shows the Settings editor, you can find settings listed below in a search bar, but you can still

edit the underlying settings.json file by using the **Open Settings (JSON)** command or by changing your default settings editor with the workbench.settings.editor setting.

Open User Settings settings.json

Keyboard Shortcut: kb(workbench.action.openSettings)

Format on paste

```
"editor.formatOnPaste": true
```

Change the font size of various UI elements

```
// Main editor
"editor.fontSize": 18,
// Terminal panel
"terminal.integrated.fontSize": 14,
// Output panel
"[Log]": {
    "editor.fontSize": 15
}
```

Change the zoom level

```
"window.zoomLevel": 5
```

Font ligatures

```
"editor.fontFamily": "Fira Code",
"editor.fontLigatures": true
```

**Tip:** You will need to have a font installed that supports font ligatures. **FiraCode** is a popular font on the VS Code team.

```
export default (n) => {

...if (n > 100000) {

....return -1;

...}

...var fibs = [];

...fibs[0] = 0;

...fibs[1] = 1;

...for (var i = 2; i < n; i+) {

...fibs[i] = fibs[i-1] + fibs[i-2];

...}

...return fibs[n];
}</pre>
```

Auto Save

```
"files.autoSave": "afterDelay"
```

You can also toggle Auto Save from the top-level menu with the File > Auto Save.

Format on save

```
"editor.formatOnSave": true
```

Change the size of Tab characters

```
"editor.tabSize": 4
```

Spaces or Tabs

```
"editor.insertSpaces": true
```

Render whitespace

```
"editor.renderWhitespace": "all"
```

Ignore files / folders

Removes these files / folders from your editor window.

```
"files.exclude": {
    "somefolder/": true,
    "somefile": true
}
```

Remove these files / folders from search results.

```
"search.exclude": {
    "someFolder/": true,
    "somefile": true
}
```

And many, many other customizations.

## Language specific settings

For the settings, which you only want for specific languages, you can scope the settings by the language identifier. You can find a list of commonly used language ids in the Language Identifiers reference.

```
"[languageid]": {
}
```

**Tip:** You can also create language specific settings with the **Configure Language Specific Settings** command.

```
Total 289 Settings
                                                                                                                       USER SETTINGS
                                                                                   // Place your settings in this file to overwrite the default set

▲ Commonly Used (10)

                                                                                       "[typescript]": {

diffEditor.ignoreTrimWhitespace
 "editor.fontSize": 12,
                                                                                               Controls if the diff editor shows changes in leading or tr...

diffEditor.renderIndicators

                                                                                            diffEditor.renderSideBySide

peditor.acceptSuggestionOnCommitCharacter

                                                                                            ✗ editor.acceptSuggestionOnEnter
                                                                                            ▶ editor.autoClosingBrackets

    editor.codeLens

 "files.autoSave": "off",
                                                                                            ✗ editor.cursorBlinking
                                                                                            editor.cursorStyle
 // Controls the font family.
"editor.fontFamily": "Menlo, Monaco, 'Courier New',
                                                                                            ✔ editor.detectIndentation
                                                                                             ✗ editor.emptySelectionClipboard
 monospace".

    editor.folding

    The number of spaces a tab is equal to. This setting is r = 0.44\,\text{O} \uparrow \quad \odot 0.\Delta\,\text{O}
                                                                                                                   Ln 4, Col 9 Tab Size: 4 UTF-8 LF JSON
```

### Add JSON validation

Enabled by default for many file types. Create your own schema and validation in settings.json

or for a schema defined in your workspace

or a custom schema

See more in the JSON documentation.

# **Extensions**

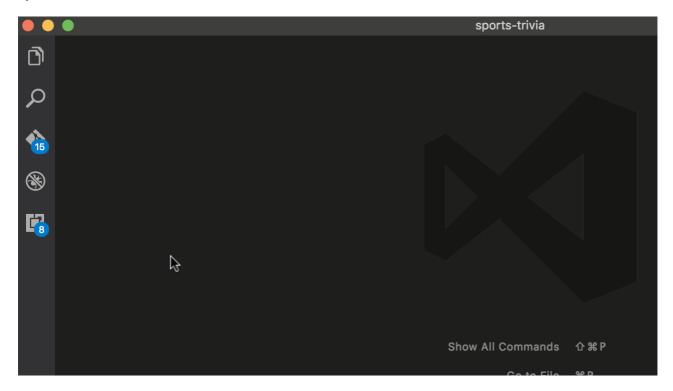
Keyboard Shortcut: kb(workbench.view.extensions)

### **Find extensions**

- 1. In the VS Code Marketplace.
- 2. Search inside VS Code in the Extensions view.
- 3. View extension recommendations
- 4. Community curated extension lists, such as awesome-vscode.

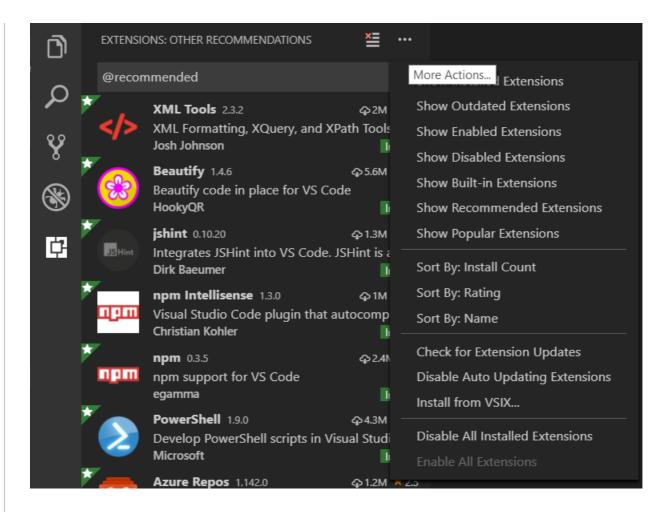
### Install extensions

In the **Extensions** view, you can search via the search bar or click the **More Actions** (...) button to filter and sort by install count.



### **Extension recommendations**

In the Extensions view, click Show Recommended Extensions in the More Actions (...) button menu.



## Creating my own extension

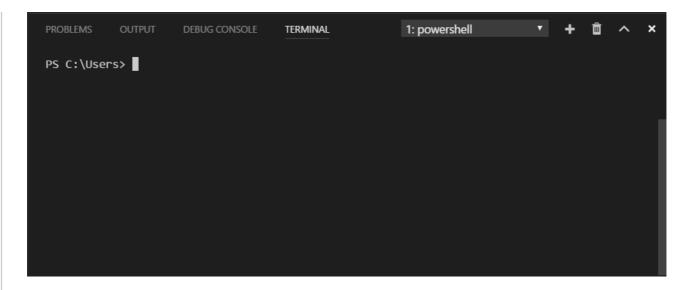
Are you interested in creating your own extension? You can learn how to do this in the Extension API documentation, specifically check out the documentation on contribution points.

- configuration
- commands
- keybindings
- languages
- debuggers
- grammars
- themes
- snippets
- jsonValidation

## Files and folders

## **Integrated Terminal**

Keyboard Shortcut: kb(workbench.action.terminal.toggleTerminal)



## Further reading:

- Integrated Terminal documentation
- Mastering VS Code's Terminal article

### **Auto Save**

Open User Settings settings.json with kb(workbench.action.openSettings)

```
"files.autoSave": "afterDelay"
```

You can also toggle Auto Save from the top-level menu with the **File > Auto Save**.

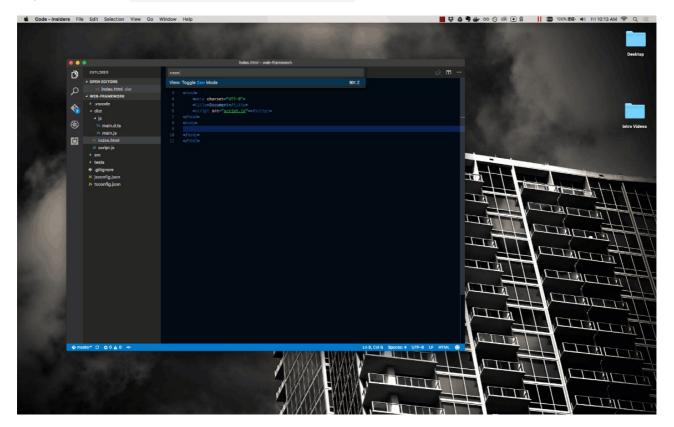
# **Toggle Sidebar**

Keyboard Shortcut: kb(workbench.action.toggleSidebarVisibility)

```
Ⅲ № № ×
                        README.md
      EXPLORER
▲ WORKING FILES
       README.md
                               ## Find by symbol
Q
       settings.json /Users/w...
     ✓ VSCODE-TIPS-AND-TRI...
                               <kbd>cmd+up+o</kbd>
        find_by_symbol.gif
                               ![Find by symbol](/media/find_by_symbol.gif)
        navigate_history.gif
8
        navigate_to_file.gif
                               ## Undo cursor position
        osx_layout.png
        preview_themes.gif
                               <kbd>cmd+u</kbd>
        undo_cursor_positi...
       README.md
                               ![undo cursor position](/media/undo_cursor_position.gif)
                               ## Move line up and down
                               <kbd>opt+up</kbd> or <kbd>opt+down</kbd>
                               # Intellisense
                               Anytime, try <kbd>ctrl+space</kbd> to trigger the suggest
                               ## jsconfig.json
                               ## .eslintrc
                               ## Install typings
Spaces: 4 Ln 127, Col 41 UTF-8 LF Markdown
```

#### Zen mode

Keyboard Shortcut: kb(workbench.action.toggleZenMode)



Enter distraction free Zen mode.

Press kbstyle(Esc) twice to exit Zen Mode.

## Side by side editing

Keyboard Shortcut: kb(workbench.action.splitEditor)

You can also drag and drop editors to create new editor groups and move editors between groups.

```
Code File Edit View Goto Window Help
                                                                     README.md
                                                                                                        田良智
0
    ▲ WORKING FILES
Q
      settings.json /Users/w

▲ VSCODE-TIPS-AND-TRI...

     ## Toggle sidebar
        command_p.png
8
                             <kbd>cmd+B</kbd>
        move_line.gif
        mp_copy_paste.png
                             ![toggle side bar](/media/toggle_side_bar.gif)
        navigate_history.gif
        navigate_to_file.gif
        osx_layout.png
                             ## Side by side editing
        preview_themes.gif
        toggle side bar.gif
                             <kbd>cmd+\</kbd> or <kbd>cmd</kbd> then click a file from the file browser.
        undo_cursor_positi.
       README.md
                             ## Switch between editors
                             <kbd>cmd+1</kbd>, <kbd>cmd+2</kbd>, <kbd>cmd+3</kbd>
                             ## History
                             Navigate entire history with <kbd>ctrl+tab</kbd>
                             Navigate back with <kbd>ctrl+-</kdbd>.
                             Navigate forward with <kbd>ctrl+shift+up</kbd>
                             ![navigate history](/media/navigate_history.gif)
                             ## Navigate to a file
    ter* 🖒 😢 0 🛕 1
```

#### Switch between editors

Keyboard Shortcut: kb(workbench.action.focusFirstEditorGroup), kb(workbench.action.focusSecondEditorGroup), kb(workbench.action.focusThirdEditorGroup)



#### Move to Explorer window

Keyboard Shortcut: kb(workbench.view.explorer)

#### Create or open a file

Keyboard Shortcut: kbstyle(Ctrl+click) (kbstyle(Cmd+click) on macOS)

You can quickly open a file or image or create a new file by moving the cursor to the file link and using kbstyle(Ctrl+click).

```
EXPLORER
                                     index.html ×
                                            <!DOCTYPE html>
      △ OPEN EDITORS
                                            <html lang="en"
Q
                                               <meta charset="UTF-8">
      .vscode
12
                                               <script src="script.js"></script>

    dist

        ⊿ js
8
         TS main.d.ts
        JS main.js
ij.
       ▶ tests
      gitignore
      JS isconfig.ison
      JS tsconfig.json
♦ master* □ ② 0 ▲ 0 ◆
                                                                                                                     Ln 9, Col 5 Spaces: 4 UTF-8 LF HTML 😀
```

# Close the currently opened folder

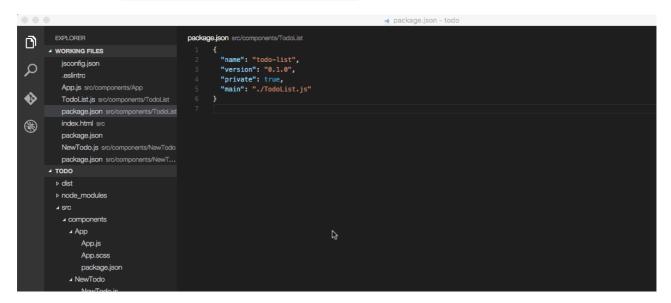
Keyboard Shortcut: kb(workbench.action.closeActiveEditor)

# **Navigation history**

Navigate entire history: kb(workbench.action.openNextRecentlyUsedEditorInGroup)

Navigate back: kb(workbench.action.navigateBack)

Navigate forward: kb(workbench.action.navigateForward)



## File associations

Create language associations for files that aren't detected correctly. For example, many configuration files with

custom file extensions are actually JSON.

```
"files.associations": {
    ".database": "json"
}
```

## **Preventing dirty writes**

VS Code will show you an error message when you try to save a file that cannot be saved because it has changed on disk. VS Code blocks saving the file to prevent overwriting changes that have been made outside of the editor.

In order to resolve the save conflict, click the **Compare** action in the error message to open a diff editor that will show you the contents of the file on disk (to the left) compared to the contents in VS Code (on the right):

```
DOCTYPE html
                                                           <!DOCTYPE html>
<head>
                                                           <head>
                                                                      Accept /
   <title>Mankala</title>
    <meta http-equiv="X-UA-Compatible" content="IE=Ed</pre>
                                                                                      compatible content="IE=Ed
                                                                       Revert
                                                              <me
    <script type="text/javascript" src="Game.js"></sc</pre>
                                                                                     script" src="<u>Game.js</u>"></sc
    <script type="text/javascript" src="Driver.js">
                                                                                 javascript" src="Driver.js">
                                                              <script
                                                             <script type="text/javascript" src="Features.js">
   <script type="text/javascript" src="Features.js">
  <script type="text/javascript" src="Position.js">
                                                       10 <script type="text/javascript" src="Position.js">
  <script type="text/javascript" src="lib/Geometry.js</pre>
                                                            <script type="text/javascript" src="lib/Geometry.js</pre>
   <script type="text/javascript" src="lib/Base.js"</pre>
                                                             <script type="text/javascript" src="lib/Base.js"</pre>
                                                        14 + change
<body id="bod" onload="Mankala.testBrowser()">
                                                           <body id="bod" onload="Mankala.testBrowser()">
   <svg height="10px">
                                                              <svg height="10px">
```

Use the actions in the editor toolbar to resolve the save conflict. You can either **Accept** your changes and thereby overwriting any changes on disk, or **Revert** to the version on disk. Reverting means that your changes will be lost.

Note: The file will remain dirty and cannot be saved until you pick one of the two actions to resolve the conflict.

# **Editing hacks**

Here is a selection of common features for editing code. If the keyboard shortcuts aren't comfortable for you, consider installing a keymap extension for your old editor.

**Tip**: You can see recommended keymap extensions in the **Extensions** view with kb(workbench.extensions.action.showRecommendedKeymapExtensions) which filters the search to @recommended:keymaps.

#### Multi cursor selection

To add cursors at arbitrary positions, select a position with your mouse and use kbstyle(Alt+Click) (kbstyle(Option+click) on macOS).

To set cursors above or below the current position use:

Keyboard Shortcut: kb(editor.action.insertCursorAbove) or kb(editor.action.insertCursorBelow)

```
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 }
```

You can add additional cursors to all occurrences of the current selection with kb(editor.action.selectHighlights).

Note: You can also change the modifier to kbstyle(Ctrl/Cmd) for applying multiple cursors with the editor.multiCursorModifier setting. See Multi-cursor Modifier for details.

If you do not want to add all occurrences of the current selection, you can use kb(editor.action.addSelectionToNextFindMatch) instead. This only selects the next occurrence after the one you selected so you can add selections one by one.

```
<body>
     <span>Should be a div</span>
     <span>Should also be a div</span>
     <div><span>This is ok</span></div>
</body>
```

# Column (box) selection

You can select blocks of text by holding kbstyle(Shift+Alt) (kbstyle(Shift+Option) on macOS) while you drag your mouse. A separate cursor will be added to the end of each selected line.

You can also use keyboard shortcuts to trigger column selection.

## Fast scrolling

Pressing the kbstyle(Alt) key enables fast scrolling in the editor and Explorers. By default, fast scrolling uses a 5X speed multiplier but you can control the multiplier with the **Editor: Fast Scroll Sensitivity** (editor.fastScrollSensitivity) setting.

## Copy line up / down

Keyboard Shortcut: kb(editor.action.copyLinesUpAction) or kb(editor.action.copyLinesDownAction)

The commands **Copy Line Up/Down** are unbound on Linux because the VS Code default keybindings would conflict with Ubuntu keybindings, see **Issue #509**. You can still set the commands editor.action.copyLinesUpAction and editor.action.copyLinesDownAction to your own preferred keyboard shortcuts.

```
server.js

1    var express = require('express');
2    var bodyParser = require('body-parser')
3
4    var database = require('./database');
5
```

## Move line up and down

Keyboard Shortcut: kb(editor.action.moveLinesUpAction) or kb(editor.action.moveLinesDownAction)

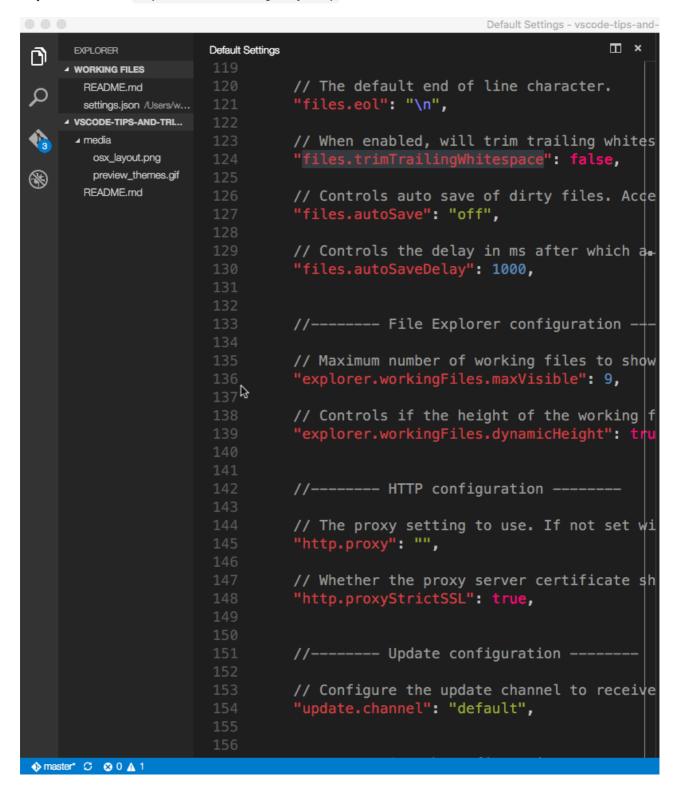
```
Ⅲ 🖟 🖓 ×
README.md
112
113
      ## Find by symbol
114
115
      <kbd>cmd+up+o</kbd>
117
      ![Find by symbol](/media/find_by_symbol.gif)
118
      ## Undo cursor position
120
      <kbd>cmd+u</kbd>
122
      ![undo cursor position](/media/undo_cursor_position.gif)
123
124
125
      ## Move line up and down
126
127
      <kbd>opt+up</kbd> or <kbd>opt+down</kbd>
128
      # Intellisense
129
130
131
      Anytime, try <kbd>ctrl+space</kbd> to trigger the suggest
132
133
      ## jsconfig.json
135
      ## .eslintrc
136
137
      ## Install typings
138
                                     Spaces: 4 Ln 127, Col 41 UTF-8 LF Markdown
```

### Shrink / expand selection

Keyboard Shortcut: kb(editor.action.smartSelect.shrink) or kb(editor.action.smartSelect.expand)

You can learn more in the Basic Editing documentation.

## Go to Symbol in File



You can group the symbols by kind by adding a colon, @: .

```
@:

NewTodo
classes (1)

❖ onKeyDown NewTodo
methods (2)

❖ render NewTodo
variables (6)

❖ TextField
variables (6)

❖ TodosStore
RETURN_KEY_CODE

❖ constructor NewTodo
text onKeyDown
```

# Go to Symbol in Workspace

Keyboard Shortcut: kb(workbench.action.showAllSymbols)

```
#todo

todo add — TodosStore.js

todo server\server.js

Todos app\components\Todos.js

todos render — Todos.js

todos server\database.js

TodoData app\components\TodoData.js

TodoSStore app\components\TodosStore.js

NewTodo app\components\NewTodo.js
```

### Navigate to a specific line

Keyboard Shortcut: kb(workbench.action.gotoLine)

## **Undo cursor position**

Keyboard Shortcut: kb(cursorUndo)

# Trim trailing whitespace

Keyboard Shortcut: kb(editor.action.trimTrailingWhitespace)

```
render() {
    return (
        <List>{this.props.items.map(this.createItem)}</List>
    );
}
```

## **Code formatting**

Currently selected source code: kb(editor.action.formatSelection)

Whole document format: kb(editor.action.formatDocument)

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

## **Code folding**

Keyboard Shortcut: kb(editor.fold) and kb(editor.unfold)

```
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'
                }
            ]
        };
```

### Select current line

Keyboard Shortcut: kb(expandLineSelection)

## Navigate to beginning and end of file

Keyboard Shortcut: kb(cursorTop) and kb(cursorBottom)

# **Open Markdown preview**

In a Markdown file, use

Keyboard Shortcut: kb(markdown.showPreview)



## Side by side Markdown edit and preview

In a Markdown file, use

Keyboard Shortcut: kb(markdown.showPreviewToSide)

The preview and editor will synchronize with your scrolling in either view.



### **IntelliSense**

kb(editor.action.triggerSuggest) to trigger the Suggestions widget.

You can view available methods, parameter hints, short documentation, etc.

#### **Peek**

Select a symbol then type kb(editor.action.peekDefinition). Alternatively, you can use the context menu.

#### Go to Definition

Select a symbol then type kb(editor.action.revealDefinition). Alternatively, you can use the context menu or kbstyle(Ctrl+click) (kbstyle(Cmd+click) on macOS).

```
Notes.js src/components
      import React, {Component} from 'react';
      import List from 'material-ui/lib/lists/list';
      import ListItem from 'material-ui/lib/lists/list-item';
      import DoneIcon from 'material-ui/lib/svg-icons/action/done';
      import NotesStore from './NotesStore';
      class Notes extends Component {
        constructor() {
            super();
11
            this.state = {
12
              notes: NotesStore.getAll()
        componentDidMount() {
          NotesStore.subscribe((action) => {
            this.setState({
              notes: action.notes
            });
                                        B
          });
23
        handleClick(note) {
          NotesStore.remove(note);
```

You can go back to your previous location with the **Go > Back** command or kb(workbench.action.navigateBack).

You can also see the type definition if you press kbstyle(Ctrl) (kbstyle(Cmd) on macOS) when you are hovering over the type.

Ln 12, Col 21 Spaces: 2 UTF-8 LF JavaScript

#### **Peek References**

DO:s

Select a symbol then type kb(editor.action.referenceSearch.trigger). Alternatively, you can use the context

```
import NotesStore from './NotesStore';
8
    class Todo extends Component {
      constructor() {
    super();
           this.state = {
            notes: NotesStore.getAll()
      componentDidMount() {
        NotesStore.subscribe((action) => {
          this.setState({
            notes: action.notes
      handleClick(note) {
        NotesStore.remove(note);
      create(note) {
         return (<ListItem onMouseDown={this.handleClick.bind(null, note)} key={note.id}>
                   {note.text}
                                                Ln 8, Col 10 Spaces: 2 UTF-8 LF JavaScript
```

### Find All References view

Select a symbol then type kb(references-view.find) to open the References view showing all your file's symbols in a dedicated view.

## **Rename Symbol**

Select a symbol then type kb(editor.action.rename). Alternatively, you can use the context menu.

```
class Notes extends Component {
          constructor() {
              super();
              this.state = {
                notes: NotesStore.getAll()
              };
          componentDidMount() {
            NotesStore.subscribe((action) => {
              this.setState({
                notes: action.notes
              });
            });
          handleClick(note) {
            NotesStore.remove(note);
          create(note) {
            return (<ListItem onMouseDown={this.handleClick.bind(null, note)} key={note.id
                      {note.text}
                   </ListItem>
                                                   Ln 16, Col 1 Spaces: 2 UTF-8 LF JavaScript
D:s
```

## Search and modify

Besides searching and replacing expressions, you can also search and reuse parts of what was matched, using regular expressions with capturing groups. Enable regular expressions in the search box by clicking the **Use Regular Expression**.\* button (kb(toggleSearchRegex)) and then write a regular expression and use parenthesis to define groups. You can then reuse the content matched in each group by using \$1, \$2, etc. in the Replace field.

```
0 - root
                                                             Aa Abl * 1 of 32
                                        ^(\w+):[^:]:(\d+).*
1 - bin
                                        $2 - $1
                                                                       品 器
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
```

#### .eslintrc.json

Install the ESLint extension. Configure your linter however you'd like. Consult the ESLint specification for details

on its linting rules and options.

Here is configuration to use ES6.

```
{
    "env": {
        "browser": true,
        "commonjs": true,
        "es6": true,
        "node": true
    },
    "parserOptions": {
        "ecmaVersion": 6,
        "sourceType": "module",
        "ecmaFeatures": {
            "jsx": true,
            "classes": true,
            "defaultParams": true
        }
    },
    "rules": {
        "no-const-assign": 1,
        "no-extra-semi": 0,
        "semi": 0,
        "no-fallthrough": 0,
        "no-empty": 0,
        "no-mixed-spaces-and-tabs": 0,
        "no-redeclare": 0,
        "no-this-before-super": 1,
        "no-undef": 1,
        "no-unreachable": 1,
        "no-use-before-define": 0,
        "constructor-super": 1,
        "curly": 0,
        "eqeqeq": 0,
        "func-names": 0,
        "valid-typeof": 1
   }
}
```

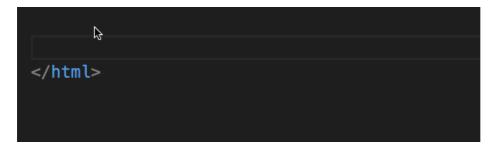
# package.json

See IntelliSense for your package.json file.

```
package.json
 2
        "name": "react-todo",
        "version": "1.0.0",
 4
        "description": "Simple todo application to demo react and es
        "main": "webpack.config.js",
        "scripts": {
          "build": "webpack --config webpack.config.js",
          "dev": "webpack-dev-server --config webpack.config.js --or
        },
        "author": "waderyan",
        "license": "ISC",
        "devDependencies": {
          "babel-core": "^6.5.2",
          "babel-loader": "^6.2.3",
          "babel-preset-es2015": "^6.5.0",
          "babel-preset-react": "^6.5.0",
          "babel-preset-stage-0": "^6.5.0",
          "html-webpack-plugin": "^2.8.1",
          "node-sass": "^3.4.2",
          "sass-loader": "^3.1.2",
          "style-loader": "^0.13.0",
          "webpack": "^1.12.13",
          "webpack-dev-server": "^1.14.1"
```

## **Emmet syntax**

Support for Emmet syntax.



# **Snippets**

### **Create custom snippets**

File > Preferences > User Snippets (Code > Preferences > User Snippets on macOS), select the language, and create a snippet.

See more details in Creating your own Snippets.

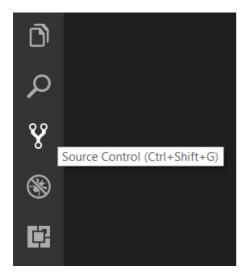
# **Git integration**

Keyboard Shortcut: kb(workbench.view.scm)

Git integration comes with VS Code "out-of-the-box". You can install other SCM providers from the extension Marketplace. This section describes the Git integration but much of the UI and gestures are shared by other SCM providers.

#### **Diffs**

From the **Source Control** view, select the file to diff.



## Side by side

Default is side by side diff.

```
*
README.md - Changes on working tree
172 # Debugging
                                                          172 # Debugging
176 ## Auto detect tasks
                                                          176 ## Auto detect tasks
178 ## Gulp tasks
                                                          178 ## Gulp tasks
180 ## Mocha
                                                          180 ## Mocha
182 # Git Integration
                                                          182 # Git Integration
184 Excellent integration for entire Git workflow.
                                                          184 Excellent integration for entire Git workflow.
                                                          186 ## Diffs
186 ## Diffs
                                                          188 **Side by side**
                                                              Click Git icon ![git icon](/media/git_icon.png)
                                                              **Inline view**
188 ## Branches
                                                          196 ## Branches
190 ## Staging
                                                              ## Staging
192 ## Committing
                                                          200 ## Committing
194 ## See Git output
                                                              ## See Git output
                                                         204 Sometimes I want to see what my tool is doing. V
196 Sometimes I want to see what my tool is doing. V
                                                              what git commands are running. This is helpful w
Ln 188, Col 1 Tab Size: 4 UTF-8 LF Markdown
   what git commands are running. This is helpful w
```

### Inline view

Toggle inline view by clicking the More Actions (...) button in the top right and selecting Switch to Inline View.

```
11 class App extends Component {
       constructor() {
          super();
           this.state = {
               todos: [
                        text: 'Go to the grocery store'
                       text: 'Book flight for build'
                   },
                        text: 'Book flight for build'
                       text: 'Write a cool, new app'
                   },
                       text: 'Write a cool, new app'
                       text: 'Create a react todo list app'
           };
       getChildContext(){
         return {
```

If you prefer the inline view, you can set "diffEditor.renderSideBySide": false.

#### Review pane

 $Navigate\ through\ diffs\ with\ \ kb(editor.action.diffReview.next)\ \ and\ \ kb(editor.action.diffReview.prev)\ .$ 

This will present them in a unified patch format. Lines can be navigated with arrow keys and pressing kbstyle(Enter) will jump back in the diff editor and the selected line.

```
JS diff.js (Index) x
                                                           <u>*</u>
                                                                   →
1/2: @@ -7,10 +7,13 @@
                                                                      ×
          7 Version: 0.5
         10 +// Here are some inserted lines
         11 +// with some extra comments
  10
         13 (function (global, undefined) {
  11
               "use strict";
  12
               undefinedVariable = {};
               undefinedVariable.prop = 5;
  13
         15 · · var definedVariable = {};
         16 - definedVariable.prop = 5;
  14
         17
            function initializeProperties(target, members) {
  16
            var keys = Object.keys(members);
```

#### **Edit pending changes**

You can make edits directly in the pending changes of the diff view.

#### **Branches**

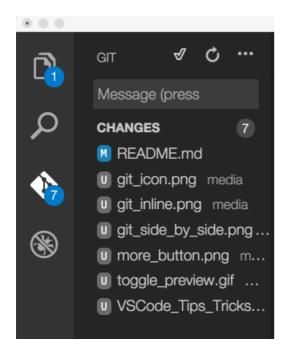
Easily switch between Git branches via the Status Bar.

```
App.js - todo
                     ტ ...
                                                                                          <u>*</u>
                               App.js src/components/App - Changes on index
1 import React, {Component, PropTypes} from 'react';
       Message (press
                                         import AppBar from 'material-ui/lib/app-bar';
                                       3 import getMuiTheme from 'material-ui/lib/styles/getMuiThe
       CHANGES
                         0
                                      5 import TodoList from '../TodoList';
                                      6 import NewTodo from '../NewTodo';
                                      8 import s from './App.scss';
                                      11 class App extends Component {
                                             constructor() {
                                                 super();
                                                 this.state = {
                                                     todos: [
                                                             text: 'Book flight for build'
                                                             text: 'Write a cool, new app'
                                                             text: 'Create a react todo list app'
Ln 39, Col 23 Spaces: 4 JavaScript Configure E
```

#### Staging

#### Stage all

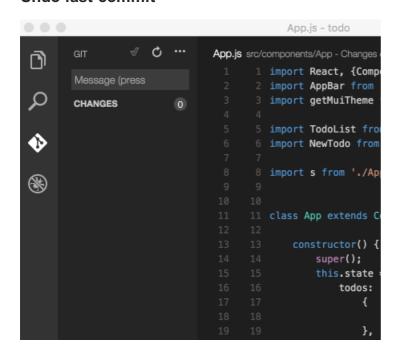
Hover over the number of files and click the plus button.



#### Stage selected

Stage a portion of a file by selecting that file (using the arrows) and then choosing **Stage Selected Ranges** from the **Command Palette**.

#### **Undo last commit**



## See Git output

VS Code makes it easy to see what Git commands are actually running. This is helpful when learning Git or debugging a difficult source control issue.

Use the **Toggle Output** command (kb(workbench.action.output.toggleOutput)) and select **Git** in the drop-down.

## **Gutter indicators**

View diff decorations in editor. See documentation for more details.

```
Program.cs \

1  using System;

2  
3  // This is a new line
4  class Program
5  {
6     ····// this is a comment
7     ···· public static void Main()
8     ····{
9     ····· var x = 123;
10     ····· Console.WriteLine();
11     ····· Console.WriteLine("hello world!");
12     ····}
13 }
```

## Resolve merge conflicts

During a merge, go to the **Source Control** view ( kb(workbench.view.scm) ) and make changes in the diff view.

## Set VS Code as default merge tool

```
git config --global merge.tool code
```

# **Debugging**

# Configure debugger

Open the **Command Palette** ( kb(workbench.action.showCommands) ) and select **Debug: Open launch.json**, which will prompt you to select the environment that matches your project (Node.js, Python, C++, etc). This will generate a launch.json file. Node.js support is built-in and other environments require installing the appropriate language extensions. See the debugging documentation for more details.

```
nd

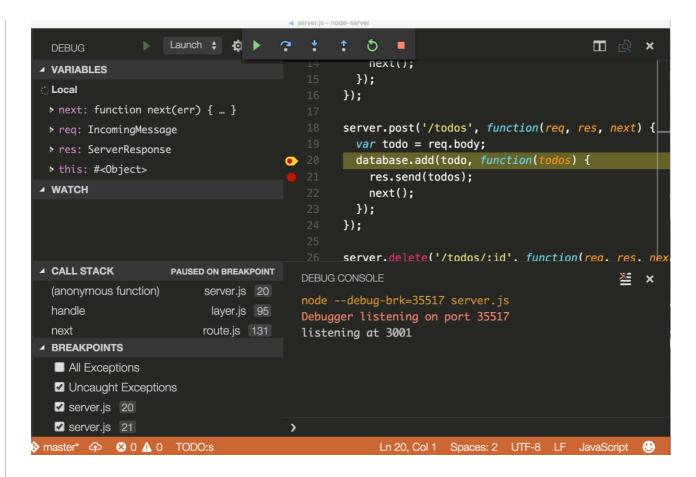
ring a merge click the git icon and make changes in the diff vie

git icon](/media/git_icon.png)

Setup VS Code as default merge tool
```

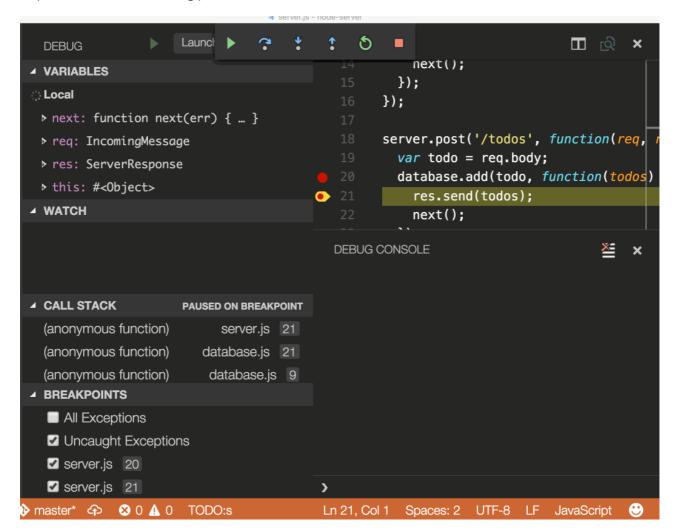
## Breakpoints and stepping through

Place breakpoints next to the line number. Navigate forward with the Debug widget.



## **Data inspection**

Inspect variables in the **Debug** panels and in the console.



#### Inline values

You can set "debug.inlineValues": true to see variable values inline in the debugger. This feature can be expensive and may slow down stepping, so it is disabled by default.

## Task runner

#### Auto detect tasks

Select **Terminal** from the top-level menu, run the command **Configure Tasks**, then select the type of task you'd like to run. This will generate a tasks.json file with content like the following. See the **Tasks** documentation for more details.

There are occasionally issues with auto generation. Check out the documentation for getting things to work properly.

### Run tasks from the Terminal menu

Select **Terminal** from the top-level menu, run the command **Run Task**, and select the task you want to run. Terminate the running task by running the command **Terminate Task** 

# Define keyboard shortcuts for tasks

master\* S 8 0 A 0 TODO:s

You can define a keyboard shortcut for any task. From the **Command Palette** ( kb(workbench.action.showCommands) ), select **Preferences: Open Keyboard Shortcuts File**, bind the desired shortcut to the workbench.action.tasks.runTask command, and define the **Task** as args.

Ln 9, Col 15

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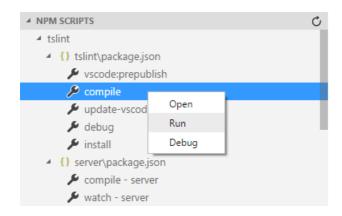
JSON

For example, to bind kbstyle(Ctrl+H) to the Run tests task, add the following:

```
{
    "key": "ctrl+h",
    "command": "workbench.action.tasks.runTask",
    "args": "Run tests"
}
```

## Run npm scripts as tasks from the explorer

With the setting <code>npm.enableScriptExplorer</code> , you can enable an explorer that shows the scripts defined in your workspace.



From the explorer you can open a script in the editor, run it as a task, and launch it with the node debugger (when the script defines a debug option like --inspect-brk). The default action on click is to open the script. To run a script on a single click, set npm.scriptExplorerAction to "run". Use the setting npm.exclude to exclude scripts in package.json files contained in particular folders.

## Portable mode

VS Code has a Portable mode which lets you keep settings and data in the same location as your installation, for example, on a USB drive.

## Insiders builds

The Visual Studio Code team uses the Insiders version to test the latest features and bug fixes of VS Code. You can also use the Insiders version by downloading it here.

- For Early Adopters Insiders has the most recent code changes for users and extension authors to try out.
- Frequent Builds New builds every day with the latest bug fixes and features.
- Side-by-side install Insiders installs next to the Stable build allowing you to use either independently.

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