

# VS Code Quick Reference

Navigation, editing, multi-cursor, terminal, debugging, extensions

## Navigation

### File & Symbol Navigation

<b>Ctrl+P</b>	Quick Open file by name
<b>Ctrl+Shift+P</b>	Command Palette
<b>Ctrl+Shift+O</b>	Go to symbol in file
<b>Ctrl+T</b>	Go to symbol in workspace
<b>Ctrl+G</b>	Go to line number
<b>F12</b>	Go to definition
<b>Alt+F12</b>	Peek definition
<b>Shift+F12</b>	Find all references
<b>Ctrl+Shift+\</b>	Jump to matching bracket

### Tab & Editor Navigation

<b>Ctrl+Tab</b>	Cycle through open tabs
<b>Ctrl+1 / 2 / 3</b>	Focus editor group 1 / 2 / 3
<b>Ctrl+\</b>	Split editor
<b>Ctrl+B</b>	Toggle sidebar
<b>Ctrl+J</b>	Toggle bottom panel

## Editing

### Line Operations

<b>Ctrl+Shift+K</b>	Delete entire line
<b>Alt+Up / Down</b>	Move line up / down
<b>Shift+Alt+Up / Down</b>	Copy line up / down
<b>Ctrl+Enter</b>	Insert line below
<b>Ctrl+Shift+Enter</b>	Insert line above
<b>Ctrl+Shift+[</b>	Fold region
<b>Ctrl+Shift+]</b>	Unfold region

### Text Manipulation

<b>Ctrl+D</b>	Select word (repeat to add next match)
<b>Ctrl+Shift+L</b>	Select all occurrences of selection
<b>Ctrl+L</b>	Select entire line
<b>Ctrl+ /</b>	Toggle line comment
<b>Shift+Alt+A</b>	Toggle block comment
<b>Tab / Shift+Tab</b>	Indent / outdent line

## Multi-Cursor

### Adding Cursors

<b>Alt+Click</b>	Add cursor at click position
<b>Ctrl+Alt+Up / Down</b>	Add cursor above / below
<b>Ctrl+D</b>	Add next occurrence of selection
<b>Ctrl+Shift+L</b>	Add cursor at all occurrences
<b>Ctrl+U</b>	Undo last cursor addition
<b>Esc</b>	Exit multi-cursor mode

### Multi-Cursor Workflow

```
// Select a word, then Ctrl+D to add matches
// Type replacement - all cursors update
// Ctrl+Shift+L selects ALL matches at once
// Alt+Click for arbitrary cursor placement
```

## Terminal

### Terminal Shortcuts

<b>Ctrl+`</b>	Toggle integrated terminal
<b>Ctrl+Shift+`</b>	Create new terminal
<b>Ctrl+Shift+5</b>	Split terminal
<b>Ctrl+PgUp / PgDn</b>	Scroll terminal up / down
<b>Ctrl+Shift+C</b>	Copy selection in terminal
<b>Ctrl+Shift+V</b>	Paste into terminal

## Terminal Management

<b>Ctrl+Shift+P → Terminal: Kill</b>	Kill active terminal
<b>Ctrl+Shift+P → Terminal: Rename</b>	Rename terminal tab
<b>Terminal dropdown</b>	Switch between terminals
<b>terminal.integrated.shell.*</b>	Setting to change default shell

## Debugging

### Debug Controls

<b>F5</b>	Start / continue debugging
<b>Shift+F5</b>	Stop debugging
<b>Ctrl+Shift+F5</b>	Restart debugging
<b>F9</b>	Toggle breakpoint
<b>F10</b>	Step over
<b>F11</b>	Step into
<b>Shift+F11</b>	Step out

### launch.json Example

```
{
  "type": "node",
  "request": "launch",
  "name": "Run App",
  "program": "${workspaceFolder}/app.js"
}
```

### Debug Features

<b>Watch panel</b>	Monitor expressions during debugging
<b>Call Stack</b>	View execution call stack
<b>Debug Console</b>	Evaluate expressions at breakpoint
<b>Conditional breakpoint</b>	Right-click breakpoint → Edit condition
<b>Logpoint</b>	Log message without stopping execution

## Extensions

### Extension Management

<b>Ctrl+Shift+X</b>	Open Extensions view
<b>@installed</b>	Filter to show installed extensions
<b>@enabled / @disabled</b>	Filter by enabled / disabled
<b>@recommended</b>	Show recommended extensions

### Essential Extensions

<b>Prettier</b>	Code formatter (JS, TS, CSS, HTML)
<b>ESLint</b>	JavaScript/TypeScript linting
<b>GitLens</b>	Enhanced Git integration and blame
<b>Remote - SSH</b>	Develop on remote machines via SSH
<b>Live Server</b>	Local dev server with live reload
<b>Thunder Client</b>	REST API client inside VS Code

## Settings

### Accessing Settings

<b>Ctrl+,</b>	Open Settings UI
<b>Ctrl+Shift+P → settings.json</b>	Open settings JSON

### Common Settings (JSON)

```
{
  "editor.fontSize": 14,
  "editor.tabSize": 2,
  "editor.formatOnSave": true,
  "editor.wordWrap": "on",
  "files.autoSave": "afterDelay"
}
```

## Workspace vs User

<b>User settings</b>	Global, apply to all projects
<b>Workspace settings</b>	Per-project, in .vscode/settings.json
<b>Workspace overrides User</b>	Workspace settings take priority

## Keyboard Shortcuts

### Customization

<b>Ctrl+K Ctrl+S</b>	Open Keyboard Shortcuts editor
<b>keybindings.json</b>	JSON file for custom bindings

### Essential Shortcuts

<b>Ctrl+Shift+P</b>	Command Palette (access everything)
<b>Ctrl+P</b>	Quick Open file
<b>Ctrl+Shift+F</b>	Search across all files
<b>Ctrl+H</b>	Find and replace in file
<b>Ctrl+Shift+H</b>	Find and replace across files
<b>F2</b>	Rename symbol
<b>Ctrl+.</b>	Quick Fix (code actions)
<b>Ctrl+Space</b>	Trigger IntelliSense
<b>Ctrl+Shift+I</b>	Format document

## Git Integration

### Source Control View

<b>Ctrl+Shift+G</b>	Open Source Control panel
<b>+</b>	Stage changes (in SCM view)
<b>-</b>	Unstage changes
<b>Ctrl+Enter</b>	Commit staged changes
<b>...</b>	More actions (push, pull, etc.)

### Inline Git Features

<b>Gutter indicators</b>	Green/blue/red marks for added/modified/deleted
<b>Ctrl+Shift+P → Git: Checkout</b>	Switch branches
<b>Ctrl+Shift+P → Git: Pull</b>	Pull from remote
<b>Ctrl+Shift+P → Git: Push</b>	Push to remote
<b>Click gutter change</b>	Inline diff view for modified lines

### Diff & Merge

<b>SCM → Open Changes</b>	Side-by-side diff view
<b>Inline diff arrows</b>	Revert individual changes
<b>3-way merge editor</b>	Resolve conflicts visually (1.69+)

## Common Patterns

### Workspace Features

<b>Ctrl+Shift+E</b>	Focus file explorer
<b>Ctrl+Shift+D</b>	Focus debug view
<b>Ctrl+Shift+M</b>	Show problems panel
<b>Ctrl+K Ctrl+T</b>	Change color theme
<b>Ctrl+K Z</b>	Enter Zen mode

### Snippets

```
// File → Preferences → Configure Snippets
"Print": {
  "prefix": "log",
  "body": "console.log('$1');",
  "description": "Console log"
}
```

# VS Code Quick Reference

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## Tasks (tasks.json)

```
{  
  "label": "build",  
  "type": "shell",  
  "command": "npm run build",  
  "group": "build"  
}
```