



TMS WEB Core
for Visual Studio Code
SETUP GUIDE

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Introduction

This document describes all steps needed to install TMS WEB Core for Visual Studio Code in the IDE

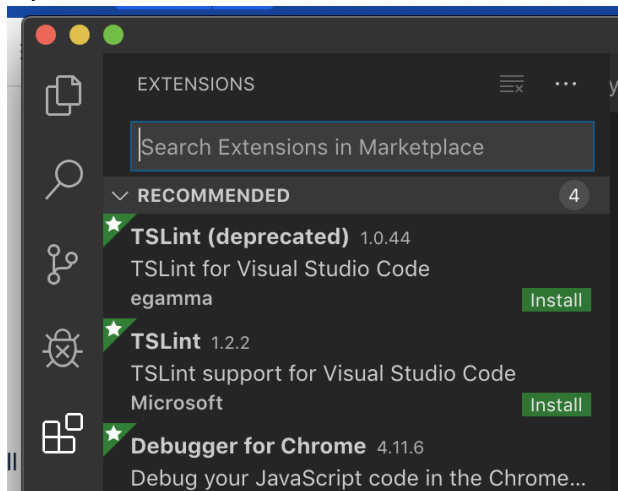
Supported Visual Studio Code versions

TMS WEB Core for Visual Studio Code requires version v1.48 or higher.

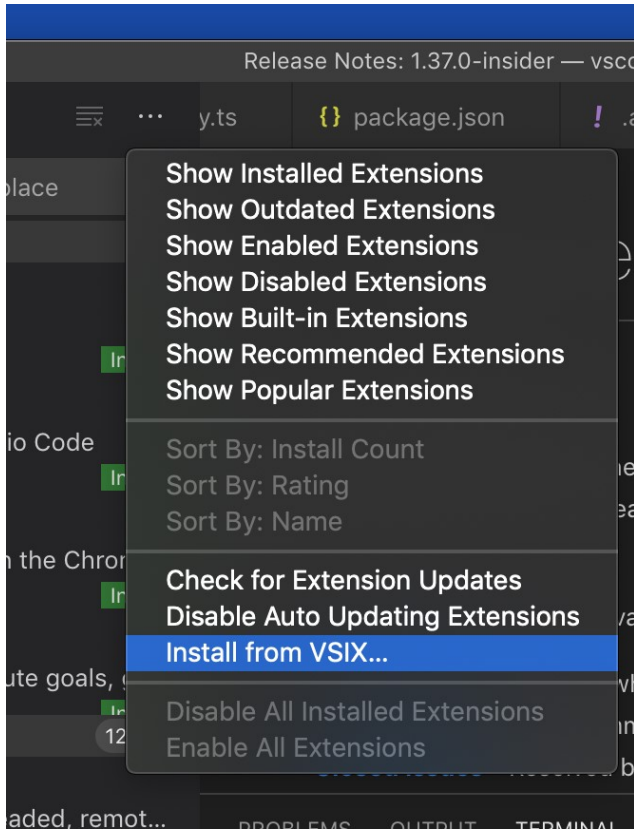
TMS WEB Core for Visual Studio Code works on the Windows, macOS and Linux operating system.

Install extension

Open Visual Studio Code and switch to the extensions section:



Use the option to install from VSIX

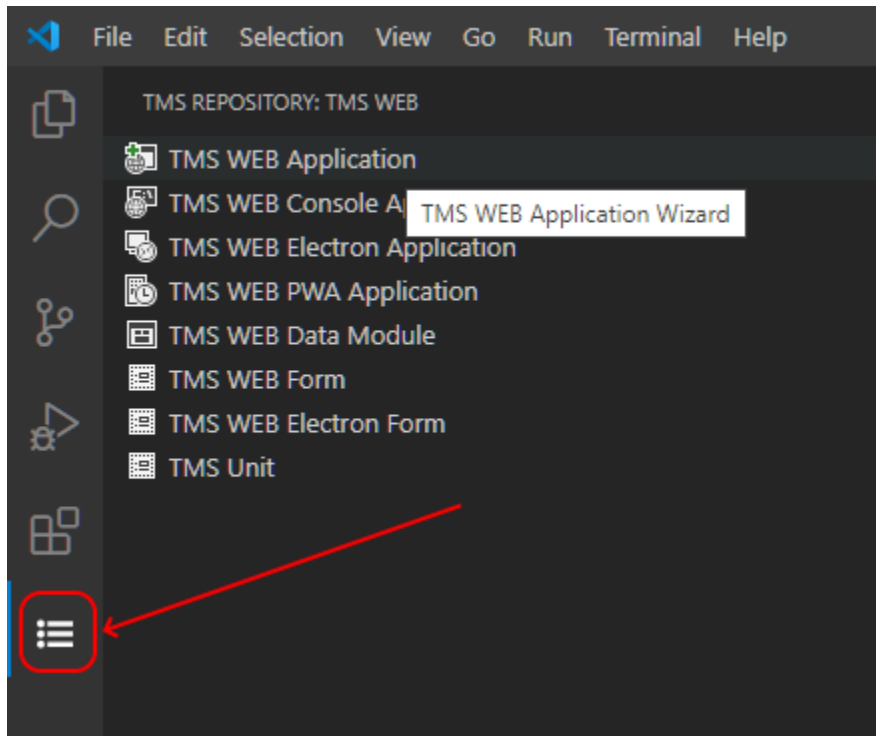


and select the .vsix file included in the TMS WEB Core for Visual Studio Code download. It will install the extension and any required dependency.

Alternatively, search TMS WEB Core from the Microsoft Visual Studio Code marketplace and install from there.

Getting started

After install, a new icon is added to the Visual Studio Code tools bar from where you can start creating a new TMS WEB Core for Visual Studio Code application:



You can create from this menu:

TMS WEB Application : a regular TMS WEB Core web client application

TMS WEB Console application : text-output only, no forms, no designer

TMS WEB Electron application : Cross platform desktop application

TMS WEB PWA application : Progressive web application

TMS Web Data Module : add a data module for adding non-visual components to the project

TMS Web Form : add a new web form to the project. A web form consists of: .PAS file, .DFM file and .HTML file.

TMS WEB Electron Form : new form for an Electron cross platform desktop application

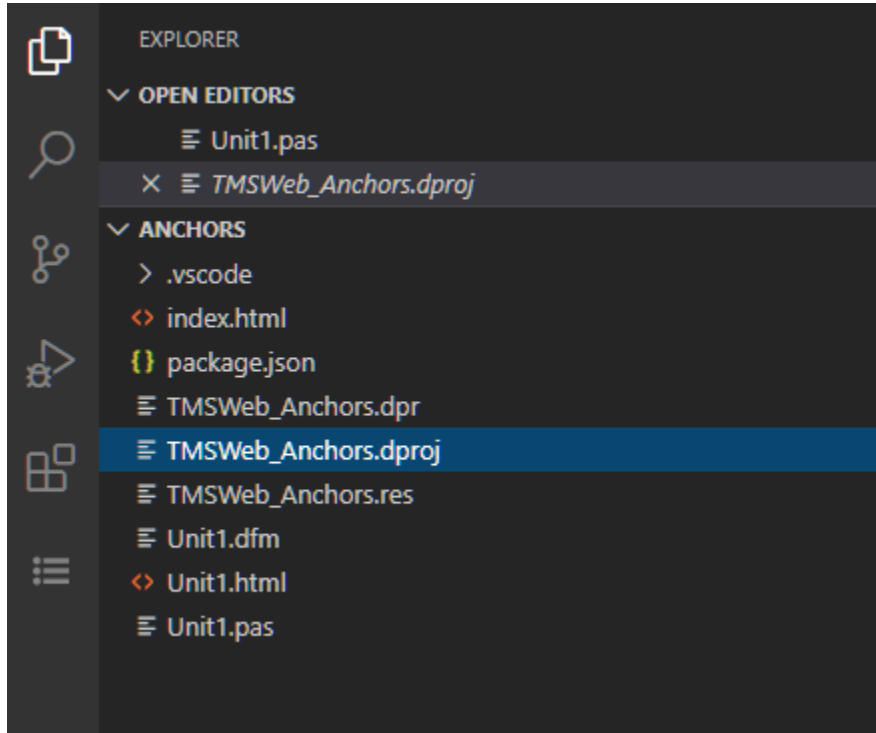
TMS Unit : code unit, .PAS file only

When creating a “TMS WEB Application”, Visual Studio Code asks for a folder where to store the application. Note that in Visual Studio Code, everything is folder centric. Visual Studio Code uses the concept of one folder / one project.

After creating a TMS Web Application, the folder will contain : project .DPROJ file , project .DPR file, project .HTMLfile, main form .PAS file, main form .DFM file, main form .HTML file.

In addition, a .vscode subfolder exists. This folder contains the scripts for Windows, macOS and Linux to build the project. Normally, you do not need to touch these files.

The project explorer in Visual Studio Code looks like this now:




Visual Studio Code has already editors registered for .HTML. It will use OmniPascal for editing the .PAS and .DPR files.

You can toggle between form designer view and code view with the Ctrl + F12 key combination.

Finally, TMS WEB Core for Visual Studio Code defines its own custom editor for editing the .DPROJ file from where you can edit all the settings of your web client application:

From this editor, you can control all the settings that matter for compiling the application, both for debug and release mode:

Project Options for Project1

Search: 

▼ TMS Web Core

Compile

TMS Web Core - Compile

Options that set the behavior of the compiler.

Target: ▼

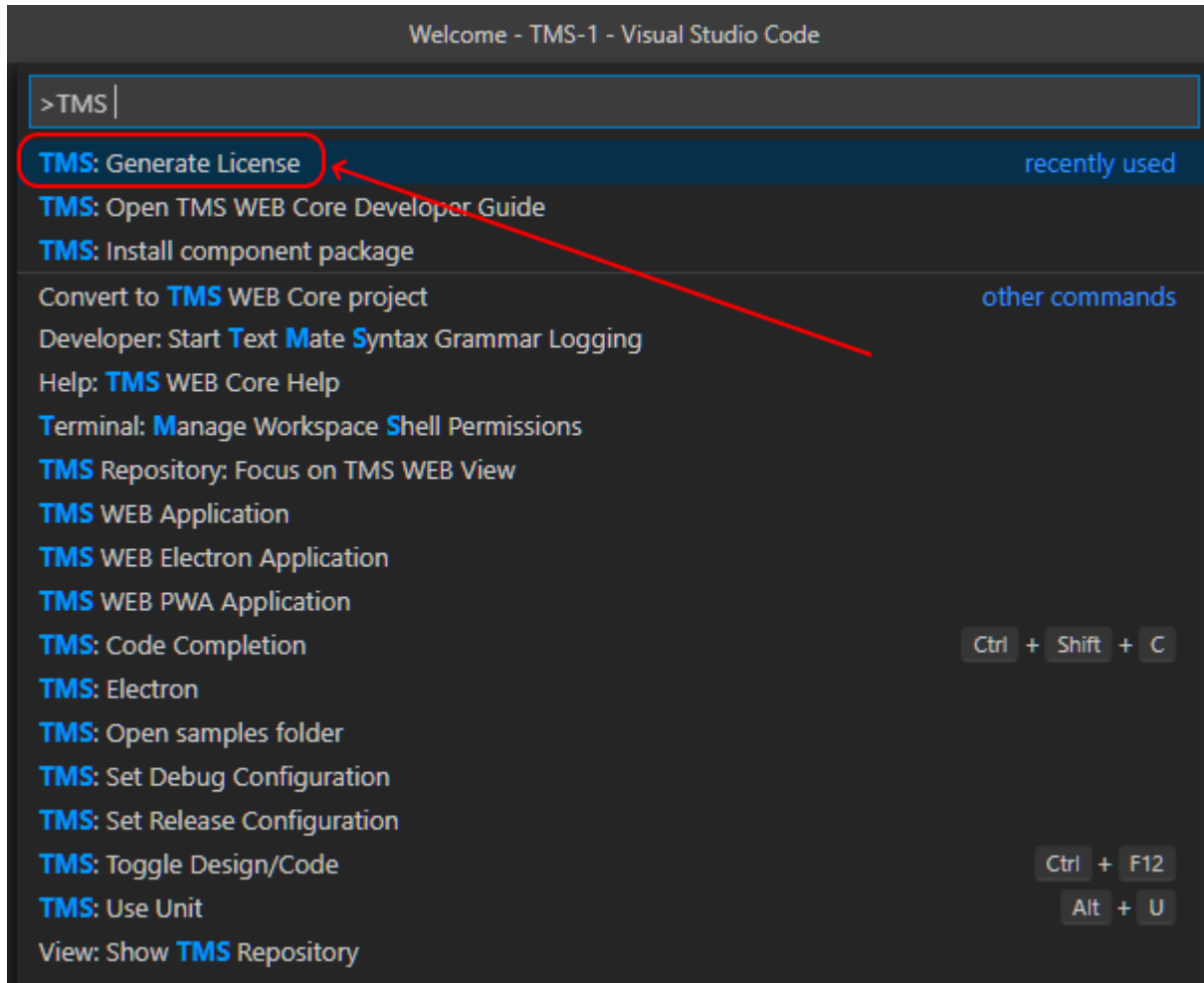
Option	Value
TMS Web Source Paths	
Output Path	
Browser	
Debug Information	True
Directives	DEBUG
ECMA Script	
HTML file	
Obfuscation	
Optimization	
Single Tab in Browser	
Single JS File	
Web Server	
Web Server Params	
Use ShellExecute	
Web Server Visibility	
Wait for Web Server	
URL	

License

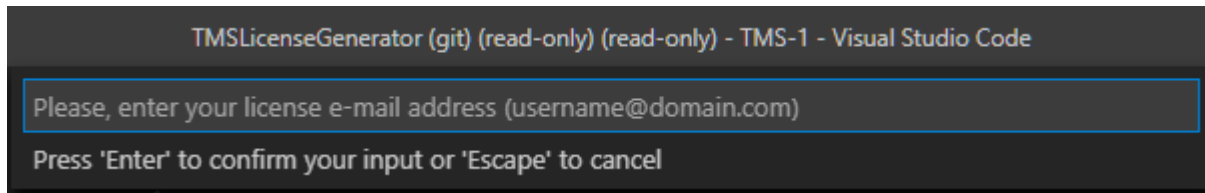
TMS WEB Core for Visual Studio Code requires a license to allow to compile & run the applications created with it.

To install the license, use the license generator tool together with your TMS WEB Core for Visual Studio Code credentials.

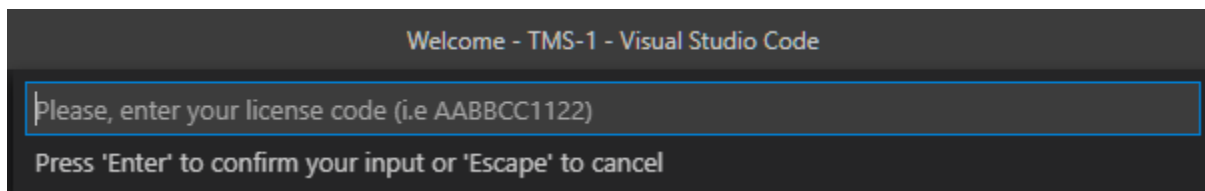
You can launch the license generator tool with Ctrl + Shift + P or select from the View menu “Command Palette” and type command line: “TMS Generate License”. This will start the license generator:



Enter the registration email first:



and then the registration code



This generates a license file that it places in the same folder where the TMSWEBCompiler executable is located. This is in the subfolder in the Visual Studio Code extension folder:

resources\compilers\tms\Linux64
resources\compilers\tms\macOS64
resources\compilers\tms\Win64
according to the operating system you use.

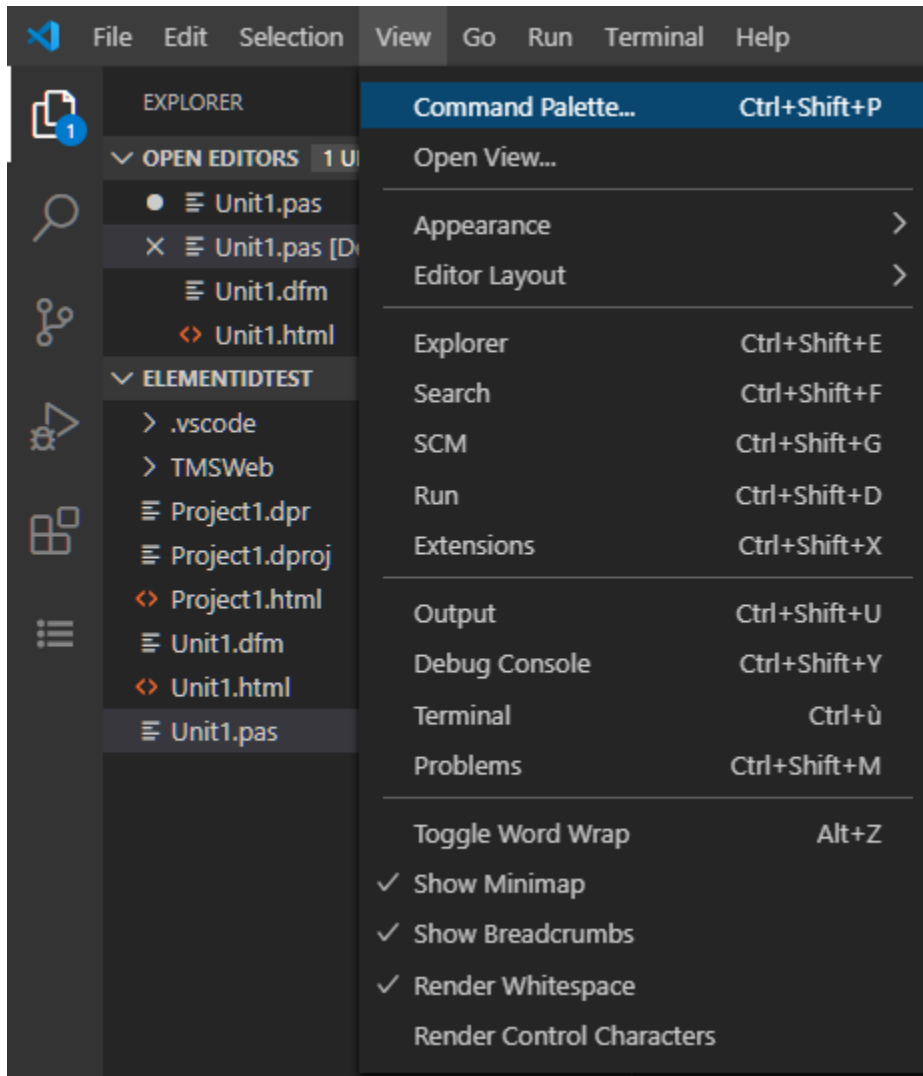
Extensions are installed in a per user extensions folder. Depending on your platform, the location is in the following folder:

- Windows %USERPROFILE%\vscode\extensions
- macOS ~/.vscode/extensions
- Linux ~/.vscode/extensions

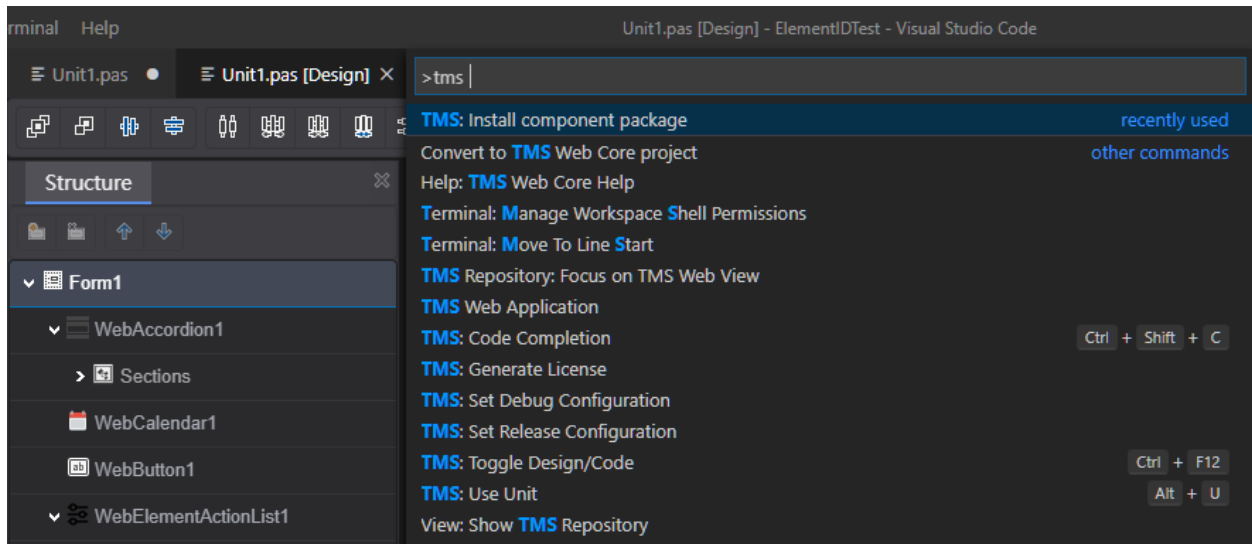
You can change the location by launching VS Code with the `--extensions-dir <dir>` command-line option.

TMS WEB Core shortcuts

Visual Studio Code offers a convenient way to register custom command for tools and as such, also for TMS WEB Core, there are several commands registered. To access the available commands, show the command palette with `Ctrl + Shift + P` (or open from the View menu) and note that for toggling between design-mode and code editor, the `Ctrl + F12` key combination is used.



From the command palette, type TMS and you can see all TMS WEB Core specific commands available:



Issue reporting

Issues can be reported via:

<https://tmssoftware.atlassian.net/servicedesk>

Please provide sufficient details in order to enable our engineers to understand and reproduce the problem. TMS WEB Core for Visual Studio Code also features built-in exception handling. We invite you to also send possible generated exceptions to our log server.

Installing a new version

Installing a new version is simple. Close Visual Studio Code, delete the old extension install folder and use the steps again as under “Install extension” to install the new version.

The extension install folder is found under

- Windows %USERPROFILE%\vscode\extensions\tmssoftware.tmswebcore-1.0.XXX
- macOS ~/.vscode/extensions\tmssoftware.tmswebcore-1.0.XXX
- Linux ~/.vscode/extensions\tmssoftware.tmswebcore-1.0.XXX

with XXX the number of the installed version.

Keyboard shortcuts

Visual Studio Code Keyboard shortcuts for Windows

General

Ctrl+Shift+P, F1	Show Command Palette
Ctrl+P	Quick Open, Go to File...
Ctrl+Shift+N	New window/instance
Ctrl+Shift+W	Close window/instance
Ctrl+,	User Settings
Ctrl+K Ctrl+S	Keyboard Shortcuts

Basic editing

Ctrl+X	Cut line (empty selection)
Ctrl+C	Copy line (empty selection)
Alt+↑ / ↓	Move line up/down
Shift+Alt+↑ / ↓	Copy line up/down
Ctrl+Shift+K	Delete line
Ctrl+Enter	Insert line below
Ctrl+Shift+Enter	Insert line above
Ctrl+Shift+\	Jump to matching bracket
Ctrl+]/[Indent/outdent line
Home / End	Go to beginning/end of line
Ctrl+Home	Go to beginning of file
Ctrl+End	Go to end of file
Ctrl+↑ / ↓	Scroll line up/down
Alt+PgUp / PgDn	Scroll page up/down
Ctrl+Shift+[Fold (collapse) region
Ctrl+Shift+]	Unfold (uncollapse) region
Ctrl+K Ctrl+[Fold (collapse) all subregions
Ctrl+K Ctrl+]	Unfold (uncollapse) all subregions
Ctrl+K Ctrl+0	Fold (collapse) all regions
Ctrl+K Ctrl+J	Unfold (uncollapse) all regions
Ctrl+K Ctrl+C	Add line comment
Ctrl+K Ctrl+U	Remove line comment
Ctrl+/	Toggle line comment
Shift+Alt+A	Toggle block comment
Alt+Z	Toggle word wrap

Navigation

Ctrl+T	Show all Symbols
Ctrl+G	Go to Line...
Ctrl+P	Go to File...
Ctrl+Shift+O	Go to Symbol...
Ctrl+Shift+M	Show Problems panel
F8	Go to next error or warning
Shift+F8	Go to previous error or warning
Ctrl+Shift+Tab	Navigate editor group history
Alt+← / →	Go back / forward

Ctrl+M Toggle Tab moves focus

Search and replace

Ctrl+F	Find
Ctrl+H	Replace
F3 / Shift+F3	Find next/previous
Alt+Enter	Select all occurrences of Find match
Ctrl+D	Add selection to next Find match
Ctrl+K Ctrl+D	Move last selection to next Find match
Alt+C / R / W	Toggle case-sensitive / regex / whole word

Multi-cursor and selection

Alt+Click	Insert cursor
Ctrl+Alt+↑ / ↓	Insert cursor above / below
Ctrl+U	Undo last cursor operation
Shift+Alt+↑	Insert cursor at end of each line selected
Ctrl+L	Select current line
Ctrl+Shift+L	Select all occurrences of current selection
Ctrl+F2	Select all occurrences of current word
Ctrl+Shift+→	Expand selection
Shift+Alt+←	Shrink selection
Shift+Alt+← (drag mouse)	Column (box) selection
Ctrl+Shift+Alt+← (arrow key)	Column (box) selection
Ctrl+Shift+Alt+PgUp/PgDn	Column (box) selection page up/down

Rich languages editing

Ctrl+Space	Trigger suggestion
Ctrl+Shift+Space	Trigger parameter hints
Shift+Alt+F	Format document
Ctrl+K Ctrl+F	Format selection
F12	Go to Definition
Alt+F12	Peek Definition
Ctrl+K F12	Open Definition to the side
Ctrl+.	Quick Fix
Shift+F12	Show References
F2	Rename Symbol
Ctrl+K Ctrl+X	Trim trailing whitespace
Ctrl+K M	Change file language

Editor management

Ctrl+F4, Ctrl+W	Close editor
Ctrl+K F	Close folder
Ctrl+\	Split editor
Ctrl+1 / 2 / 3	Focus into 1 st , 2 nd or 3 rd editor group
Ctrl+K Ctrl+← / →	Focus into previous/next editor group
Ctrl+Shift+PgUp / PgDn	Move editor left/right
Ctrl+K ← / →	Move active editor group

File management

Ctrl+N	New File
Ctrl+O	Open File...
Ctrl+S	Save
Ctrl+Shift+S	Save As...
Ctrl+K S	Save All
Ctrl+F4	Close
Ctrl+K Ctrl+W	Close All
Ctrl+Shift+T	Reopen closed editor
Ctrl+K Enter	Keep preview mode editor open
Ctrl+Tab	Open next
Ctrl+Shift+Tab	Open previous
Ctrl+K P	Copy path of active file
Ctrl+K R	Reveal active file in Explorer
Ctrl+K O	Show active file in new window/instance

Display

F11	Toggle full screen
Shift+Alt+0	Toggle editor layout (horizontal/vertical)
Ctrl+ = / -	Zoom in/out
Ctrl+B	Toggle Sidebar visibility
Ctrl+Shift+E	Show Explorer / Toggle focus
Ctrl+Shift+F	Show Search
Ctrl+Shift+G	Show Source Control
Ctrl+Shift+D	Show Debug
Ctrl+Shift+X	Show Extensions
Ctrl+Shift+H	Replace in files
Ctrl+Shift+J	Toggle Search details
Ctrl+Shift+U	Show Output panel
Ctrl+Shift+V	Open Markdown preview
Ctrl+K V	Open Markdown preview to the side
Ctrl+K Z	Zen Mode (Esc Esc to exit)

Debug

F9	Toggle breakpoint
F5	Start/Continue
Shift+F5	Stop
F11 / Shift+F11	Step into/out
F10	Step over
Ctrl+K Ctrl+I	Show hover

Integrated terminal

Ctrl+`	Show integrated terminal
Ctrl+Shift+`	Create new terminal
Ctrl+C	Copy selection
Ctrl+V	Paste into active terminal
Ctrl+↑ / ↓	Scroll up/down
Shift+PgUp / PgDn	Scroll page up/down
Ctrl+Home / End	Scroll to top/bottom

Other operating systems' keyboard shortcuts and additional unassigned shortcuts available at aka.ms/vscodekeybindings

In addition to these shortcuts, the TMS WEB Core for Visual Studio extension defines this shortcuts:

Toggle code/designer

