

FRONT-END WEB DEVELOPMENT 2.0

Web Development Guides (Cheat Sheets)

(Version 05/2019)

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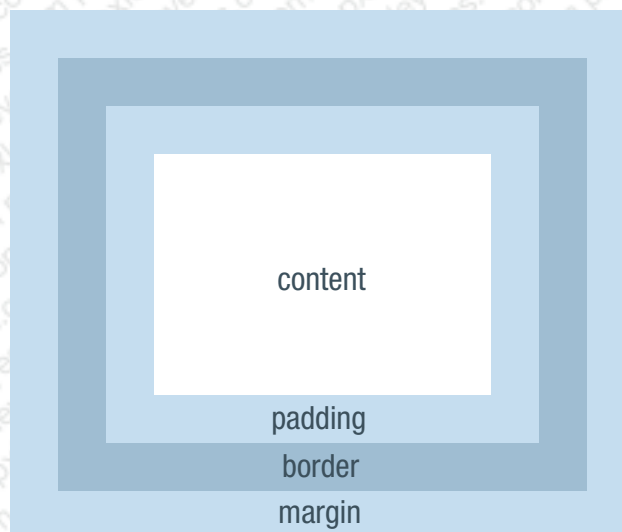
CSS Cheat Sheet

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Selectors

<code>div</code>	all DIV tags
<code>div, span</code>	all DIV tags and all SPAN tags
<code>div span</code>	all SPAN tags inside DIVs
<code>#content</code>	element with ID "content"
<code>.box</code>	all elements with CLASS "box"
<code>ul#box</code>	UL tag with ID "box"
<code>span.box</code>	all SPAN tags with CLASS "box"
<code>*</code>	all elements
<code>#box *</code>	all elements inside #box
<code>a:link, a:active,</code>	links in normal state, in clicked state,
<code>a:visited</code>	and in visited state
<code>a:hover</code>	link with mouse over it
<code>div > span</code>	all SPANs one-level deep in a DIV

Box Model



Positioning

<code>position</code>	places elements on screen, e.g. absolute, fixed, relative
<code>float</code>	stacks elements horizontally in a particular direction, e.g. left
<code>top, left, right, bottom</code>	specifies the offsets used in absolute, fixed, and relative positions, e.g. top:10px;left:10px
<code>display</code>	sets how the element is placed in the doc flow, e.g. block, inline, none
<code>z-index</code>	sets the stacking order of elements, e.g. z-index of 1 is below z-index of 2
<code>overflow</code>	sets what happens to content outside of container, e.g. auto, hidden

Text

<code>font-family</code>	font used, e.g. Helvetica, Arial
<code>font-size</code>	text size, e.g. 60px, 3em
<code>color</code>	text color, e.g. #000, #abcdef
<code>font-weight</code>	how bold the text is, e.g. bold
<code>font-style</code>	what style the text is, e.g. italic
<code>text-decoration</code>	sets a variety of effects on text, e.g. underline, overline, none
<code>text-align</code>	how text is aligned, e.g. center
<code>line-height</code>	spacing between lines, e.g. 2em
<code>letter-spacing</code>	spacing between letters, e.g. 5px
<code>text-indent</code>	indent of the first line, e.g. 2em
<code>text-transform</code>	applies formatting to text, e.g. upper-case, lowercase, capitalize
<code>vertical-align</code>	align relative to baseline, e.g. text-top

Borders and Lists

<code>border</code>	sets border style for all borders, in the format: border: (solid, dashed, dotted, double) (width) (color), e.g. border: solid 1px #000
<code>border-top</code>	sets border style for a specific
<code>border-bottom</code>	border (same property syntax used
<code>border-left</code>	for padding and margin, e.g.
<code>border-right</code>	margin-left)
<code>list-style-type</code>	sets style of bullets, e.g. square
<code>list-style-position</code>	sets how text wraps when bulleted, e.g. outside, inside
<code>list-style-image</code>	sets an image for a bullet, e.g. list-style-image:url(bullet.png)

Everything Else

<code>background</code>	sets background of an element, in the format: background: (color) (image) (repeat) (position), e.g. background: #000 url(bg.png) repeat-x top left
<code>cursor</code>	sets shape of cursor, e.g. pointer
<code>outline</code>	a border drawn around an element that doesn't affect the box model
<code>border-collapse</code>	sets how borders within tables behave, e.g. collapse
<code>clear</code>	sets on what side a new line starts in relation to nearby floated elements, e.g. left, right, both

Always write `<!doctype html>` in your files!



Visual Studio Code

Keyboard shortcuts for Linux

General

Ctrl+Shift+P, F1	Show Command Palette
Ctrl+P	Quick Open
Ctrl+Shift+N	New window/instance
Ctrl+W	Close window/instance

Basic editing

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

Rich languages editing

Ctrl+Space	Trigger suggestion
Ctrl+Shift+Space	Trigger parameter hints
Tab	Emmet expand abbreviation
Ctrl+Shift+I	Format document
Ctrl+K Ctrl+F	Format selection
F12	Go to Definition
Ctrl+Shift+F10	Peek Definition
Ctrl+K F12	Open Definition to the side
Ctrl+.	Quick Fix
Shift+F12	Show References
F2	Rename Symbol
Ctrl+Shift+ . / ,	Replace with next/previous value
Ctrl+K Ctrl+X	Trim trailing whitespace
Ctrl+K M	Change file language

Multi-cursor and selection

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

Display

F11	Toggle full screen
Shift+Alt+1	Toggle editor layout
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 Git
Ctrl+Shift+D	Show Debug
Ctrl+Shift+X	Show Extensions
Ctrl+Shift+H	Replace in files
Ctrl+Shift+J	Toggle Search details
Ctrl+Shift+C	Open new command prompt/terminal
Ctrl+K Ctrl+H	Show Output panel
Ctrl+Shift+V	Toggle Markdown preview
Ctrl+K V	Open Markdown preview to the side

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

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
Ctrl+Alt+-	Go back
Ctrl+Shift+-	Go forward
Ctrl+M	Toggle Tab moves focus

Editor management

Ctrl+W	Close editor
Ctrl+K F	Close folder
Ctrl+\	Split editor
Ctrl+ 1 / 2 / 3	Focus into 1 st , 2 nd , 3 rd editor group
Ctrl+K Ctrl+ ←	Focus into previous editor group
Ctrl+K Ctrl+ →	Focus into next editor group
Ctrl+Shift+PgUp	Move editor left
Ctrl+Shift+PgDown	Move editor right
Ctrl+K Left	Move active editor group left/up
Ctrl+K Right	Move active editor group right/down

File management

Ctrl+N	New File
Ctrl+O	Open File...
Ctrl+S	Save
Ctrl+Shift+S	Save As...
Ctrl+Alt+S	Save All
Ctrl+W	Close
Ctrl+K Ctrl+W	Close All
Ctrl+Shift+T	Reopen closed editor
Ctrl+K Enter	Keep 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

Debug

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

Integrated terminal

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

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



Keyboard shortcuts for macOS

General

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

Basic editing

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

Multi-cursor and selection

⇧ + click	Insert cursor
⇧⇧↑	Insert cursor above
⇧⇧↓	Insert cursor below
⌘U	Undo last cursor operation
⇧⇧I	Insert cursor at end of each line selected
⌘I	Select current line
⇧⇧L	Select all occurrences of current selection
⇧⇧F2	Select all occurrences of current word
⇧⇧⇧⇧ / ⇧⇧⇧⇧	Expand / shrink selection
⇧⇧ + drag mouse	Column (box) selection
⇧⇧⇧⇧↑ / ⇧⇧⇧⇧↓	Column (box) selection up/down
⇧⇧⇧⇧⇧⇧ / ⇧⇧⇧⇧⇧⇧	Column (box) selection left/right
⇧⇧⇧⇧PgUp	Column (box) selection page up
⇧⇧⇧⇧PgDn	Column (box) selection page down

Search and replace

⌘F	Find
⇧⇧F	Replace
⌘G / ⇧⇧G	Find next/previous
⇧Enter	Select all occurrences of Find match
⌘D	Add selection to next Find match
⌘K ⌘D	Move last selection to next Find match

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⌘.	Quick Fix
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Navigation

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⇧⇧M	Toggle Tab moves focus

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⇧1 / ⇧2 / ⇧3	Focus into 1 st , 2 nd , 3 rd editor group
⌘K ⇧⇧ / ⌘K ⇧⇧	Focus into previous/next editor group
⌘K ⇧⇧⇧ / ⌘K ⇧⇧⇧	Move editor left/right
⌘K ⇧ / ⌘K ⇧	Move active editor group

File management

⌘N	New File
⌘O	Open File...
⌘S	Save
⇧⇧S	Save As...
⇧⇧S	Save All
⌘W	Close
⌘K ⌘W	Close All

⇧⇧T	Reopen closed editor
⌘K Enter	Keep preview mode editor open
⇧Tab / ⇧⇧Tab	Open next / previous
⌘K P	Copy path of active file
⌘K R	Reveal active file in Explorer
⌘K O	Show active file in new window/instance

Display

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

Debug

F9	Toggle breakpoint
F5	Start/Continue
F11 / ⇧F11	Step into/ out
F10	Step over
⇧F5	Stop
⌘K ⇧I	Show hover

Integrated terminal

⇧*	Show integrated terminal
⇧q	Create new terminal
⌘C	Copy selection
unassigned	Paste into active terminal
⇧⇧↑ / ⇧⇧↓	Scroll up/down
PgUp / PgDn	Scroll page up/down
⌘Home / End	Scroll to top/bottom

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

Java Script Cheat Sheet

Regular Expressions Syntax

^	Start of string
\$	End of string
.	Any single character
(a b)	a or b
(...)	Group section
[abc]	In range (a, b or c)
[^abc]	Not in range
\s	White space
a?	Zero or one of a
a*	Zero or more of a
a+?	Zero or more, ungreedy
a+	One or more of a
a+?	One or more, ungreedy
a{3}	Exactly 3 of a
a{3,}	3 or more of a
a{,6}	Up to 6 of a
a{3,6}	3 to 6 of a
a{3,6}?	3 to 6 of a, ungreedy
\	Escape character
[:punct:]	Any punctuation symbol
[:space:]	Any space character
[:blank:]	Space or tab

There's an excellent regular expression tester at: <http://regexpal.com/>

Pattern Modifiers

g	Global match
i *	Case-insensitive
m *	Multiple lines
s *	Treat string as single line

JavaScript Booleans

toSource()	valueOf()
toString()	

JavaScript Dates

Date()	setMonth()
getDate()	setFullYear()
getDay()	setHours()
getMonth()	setMinutes()
getFullYear()	setSeconds()
getYear()	setMilliseconds()
getHours()	setTime()
getMinutes()	setUTCDate()
getSeconds()	setUTCDay()
getMilliseconds()	setUTCMonth()
getTime()	setUTCFullYear()
getTimezoneOffset()	setUTCHours()
getUTCDate()	setUTCMinutes()
getUTCDay()	setUTCSeconds()
getUTCMonth()	setUTCMilliseconds()
getUTCFullYear()	toSource()
getUTCHours()	toString()
getUTCMinutes()	toGMTString()
getUTCSeconds()	toUTCString()
getUTCMilliseconds()	toLocaleString()
parse()	UTC()
setDate()	valueOf()

Pattern Modifiers (cont)

x *	Allow comments and whitespace in pattern
e *	Evaluate replacement
U *	Ungreedy pattern
* PCRE modifier	

JavaScript RegExp Object

compile()	lastParen
exec()	leftContext
global	multiline
ignoreCase	rightContext
input	source
lastIndex	test()
lastMatch	

JavaScript Event Handlers

onabort	onmousedown
onblur	onmousemove
onchange	onmouseout
onclick	onmouseover
ondblclick	onmouseup
ondragdrop	onmove
onerror	onreset
onfocus	onresize
onkeydown	onselect
onkeypress	onsubmit
onkeyup	onunload
onload	

JavaScript Strings

charAt()	slice()
charCodeAt()	split() x
concat()	substr()
fromCharCode()	substring()
indexOf()	toLowerCase()
lastIndexOf()	toUpperCase()
length	toLocaleLowerCase()
localeCompare()	toLocaleUpperCase()
match() x	toSource()
replace() x	valueOf()
search() x	

String object methods with an x support regular expressions.

JavaScript Functions

decodeURI()	isNaN()
decodeURIComponent()	Number()
encodeURI()	parseFloat()
encodeURIComponent()	parseInt()
escape()	String()
eval()	unescape()
isFinite()	

JavaScript Arrays

concat()	slice()
join()	sort()
length	splice()
pop()	toSource()
push()	toString()
reverse()	unshift()
shift()	valueOf()

JavaScript Numbers and Maths

abs()	min()
acos()	NEGATIVE_INFINITY
asin()	PI
atan()	POSITIVE_INFINITY
atan2()	pow()
ceil()	random()
cos()	round()
E	sin()
exp()	sqrt()
floor()	SQRT1_2
LN10	SQRT2
LN2	tan()
log()	toSource()
LOG10E	toExponential()
LOG2E	toFixed()
max()	toPrecision()
MAX_VALUE	toString()
MIN_VALUE	valueOf()
NaN	