



ROBOTICS CLUB

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Cheat Sheet

Cascading Style Sheets (CSS 3)



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BACKGROUND

background	<i>background-image</i> <i>background-position</i> <i>background-size</i> <i>background-repeat</i> <i>background-attachment</i> <i>background-origin</i> <i>background-clip</i> <i>background-color</i>
background-attachment	scroll fixed
background-break	bounding-box each-box continuous
background-clip	<i>length</i> % border-box padding-box content-box no-clip
background-color	<i>color</i> transparent
background-image	<i>url</i> none
background-origin	border-box padding-box content-box
background-position	top left top center top right center left center center center right bottom left bottom center bottom right <i>x-% y-%</i> <i>x-pos y-pos</i>
background-repeat	repeat repeat-x repeat-y no-repeat
background-size	<i>length</i> % auto cover contain

BORDER

border	<i>border-width</i> <i>border-style</i> <i>border-color</i>
border-break	<i>border-width</i> <i>border-style</i> <i>color</i> close
border-bottom	<i>border-bottom-width</i> <i>border-style</i> <i>border-color</i>
border-bottom-color	<i>border-color</i>
border-bottom-style	<i>border-style</i>
border-bottom-width	thin medium thick <i>length</i>
border-collapse	collapse separate
border-color	<i>color</i>
border-image	<i>image</i> [<i>number</i> / % <i>border-width</i> stretch repeat round] none
border-left	<i>border-left-width</i> <i>border-style</i> <i>border-color</i>
border-left-color	<i>border-color</i>
border-left-style	<i>border-style</i>
border-left-width	thin medium thick <i>length</i>
border-right	<i>border-right-width</i> <i>border-style</i> <i>border-color</i>
border-right-color	<i>border-color</i>
border-right-style	<i>border-style</i>
border-right-width	thin medium thick <i>length</i>

TABLE

border-collapse	collapse separate
border-spacing	<i>length length</i>
caption-side	top bottom left right
empty-cells	show hide
table-layout	table-layout auto fixed

BORDER

border-top	<i>border-top-width</i> <i>border-style</i> <i>border-color</i>
border-top-color	<i>border-color</i>
border-top-style	<i>border-style</i>
border-top-width	thin medium thick <i>length</i>
border-width	thin medium thick <i>length</i>
border-radius	<i>border-top-right-radius</i> <i>border-bottom-right-radius</i> <i>border-bottom-left-radius</i> <i>border-top-left-radius</i>
border-top-right-radius	<i>length</i>
border-bottom-right-radius	<i>length</i>
border-bottom-left-radius	<i>length</i>
border-top-left-radius	<i>length</i>
box-shadow	inset [<i>length</i> , <i>length</i> , <i>length</i> , <i>length</i> <color>] none
border-style	none hidden dotted dashed solid double groove ridge inset outset

BOX MODEL

clear	left right both none
display	none inline block inlineblock list-item run-in compact table inlinetable table-row-group table-header-group tablefooter- group table-row table-column-group tablecolumn table-cell tablecaption ruby ruby-base ruby-text ruby-base-group ruby-text-group
float	left right none
height	auto <i>length</i> %
max-height	none <i>length</i> %
max-width	none <i>length</i> %
min-height	none inherit <i>length</i> %
min-width	none inherit <i>length</i> %
width	auto % <i>length</i>
margin	<i>margin margin-top</i> <i>margin-right</i> <i>margin-bottom</i> <i>margin-left</i>
margin-bottom	auto <i>length</i> %
margin-left	auto <i>length</i> %
margin-right	auto <i>length</i> %

TRANSITIONS

transition	transition-property transition-duration transition-timing-function transition-delay
transition-delay	time
transition-duration	time
transition-property	none all
transition-timing-function	ease linear ease-in ease-out ease-in-out cubic-Bezier (number, number, number, number)



BOX MODEL

margin-top	<i>auto</i> <i>length</i> <i>%</i>
padding	<i>padding padding-top</i> <i>padding-right</i> <i>padding-bottom</i> <i>padding-left</i>
padding-bottom	<i>length</i> <i>%</i>
padding-left	<i>length</i> <i>%</i>
padding-right	<i>length</i> <i>%</i>
padding-top	<i>length</i> <i>%</i>
marquee-direction	<i>forward</i> <i>reverse</i>
marquee-loop	<i>infinite</i> <i>number</i>
marquee-play-count	<i>infinite</i> <i>integer</i>
marquee-speed	<i>slow</i> <i>normal</i> <i>fast</i>
marquee-style	<i>scroll</i> <i>slide</i> <i>alternate</i>
overflow	<i>visible</i> <i>hidden</i> <i>scroll</i> <i>auto</i> <i>no-display</i> <i>nocontent</i> <i>overflow-x</i> <i>overflow-y</i>
overflow-style	<i>auto</i> <i>marquee-line</i> <i>marquee-block</i>
overflow-x	<i>visible</i> <i>hidden</i> <i>scroll</i> <i>auto</i> <i>no-display</i> <i>nocontent</i>
overflow-y	<i>visible</i> <i>hidden</i> <i>scroll</i> <i>auto</i> <i>no-display</i> <i>nocontent</i>
rotation	<i>angle</i>
rotation-point	<i>position (paired value offset)</i>
visibility	<i>visibility visible</i> <i>hidden</i> <i>collapse</i>

FONT

font	<i>font-style</i> <i>font-variant</i> <i>font-weight</i> <i>font-size/line-height</i> <i>font-family</i> <i>caption</i> <i>icon</i> <i>menu</i> <i>message-box</i> <i>smallcaption</i> <i>status-bar</i>
font-family	<i>family-name</i> <i>generic-family</i> <i>inherit</i>
font-size	<i>xx-small</i> <i>x-small</i> <i>small</i> <i>medium</i> <i>large</i> <i>x-large</i> <i>xx-large</i> <i>smaller</i> <i>larger</i> <i>inherit</i> <i>length</i> <i>%</i>
font-size-adjust	<i>none</i> <i>inherit</i> <i>number</i>
font-stretch	<i>normal</i> <i>wider</i> <i>narrower</i> <i>ultra-condensed</i> <i>extracondensed</i> <i>condensed</i> <i>semi-condensed</i> <i>semiexpanded</i> <i>expanded</i> <i>extra-expanded</i> <i>ultraexpanded</i> <i>inherit</i>
font-style	<i>normal</i> <i>italic</i> <i>oblique</i> <i>inherit</i>
font-variant	<i>normal</i> <i>small-caps</i> <i>inherit</i>
font-weight	<i>normal</i> <i>bold</i> <i>bolder</i> <i>lighter</i> <i>100</i> <i>200</i> <i>300</i> <i>400</i> <i>500</i> <i>600</i> <i>700</i> <i>800</i> <i>900</i> <i>inherit</i>

COLOR

color	<i>inherit</i> <i>color</i>
opacity	<i>inherit</i> <i>number</i>



TEXT

direction	ltr rtl inherit
hanging-punctuation	none [start end endedge]
letter-spacing	normal <i>length</i> %
punctuation-trim	none [start end adjacent]
text-align	start end left right center justify
text-align-last	start end left right center justify
text-decoration	none underline overline line-through blink
text-emphasis	none [[accent dot circle disc] [before after]?]
text-indent	<i>length</i> %
text-justify	auto inter-word interideograph inter-cluster distribute kashida tibetan
text-outline	none <i>color</i> <i>length</i>
text-shadow	none <i>color</i> <i>length</i>
text-transform	none capitalize uppercase lowercase
text-wrap	normal unrestricted none suppress
unicode-bidi	normal embed bidioverride
white-space	normal pre nowrap prewrap pre-line
white-space-collapse	preserve collapse preserve-breaks discard
word-break	normal keep-all loose break-strict break-all
word-spacing	normal <i>length</i> %
word-wrap	normal break-word

COLUMN

column-count	auto <i>number</i>
column-fill	auto balance
column-gap	normal <i>length</i>
column-rule	<i>column-rule-width</i> <i>column-rule-style</i> <i>column-rule-color</i>
column-rule-color	<i>color</i>
column-rule-style	<i>border-style</i>
column-rule-width	thin medium thick <i>length</i>
columns	<i>column-width</i> <i>column-count</i>
column-span	1 all
column-width	auto <i>length</i>

ANIMATIONS

animation	animation-name animation-duration animation-timing-function animation-delay animation-iteration-count animation-direction
animation-delay	time
animation-direction	normal alternate
animation-duration	time
animation-iteration-count	inherit number
animation-name	none IDENT
animation-play-state	running paused
animation-timing-function	ease linear ease-in ease-out ease-in-out cubic-Bezier (number, number, number, number)



SPEECH

cue	<i>cue-before</i> <i>cue-after</i>
cue-before	<i>uri</i> [silent x-soft soft medium loud x-loud] none inherit] <i>number</i> %
cue-after	<i>uri</i> [silent x-soft soft medium loud x-loud] none inherit] <i>number</i> %
mark	<i>mark-before</i> <i>mark-after</i>
mark-before	<i>string</i>
mark-after	<i>string</i>
pause	<i>pause-before</i> <i>pause-after</i>
pause-before	none x-weak weak medium strong x-strong inherit <i>time</i>
pause-after	none x-weak weak medium strong x-strong inherit <i>time</i>
phonemes string	<i>string</i>
rest	<i>rest-before</i> <i>rest-after</i>
rest-before	none x-weak weak medium strong x-strong inherit <i>time</i>
rest-after	none x-weak weak medium strong x-strong inherit <i>time</i>
speak	none normal spell-out digits literal-punctuation no-punctuation inherit
voice-balance	left center right leftwards rightwards inherit <i>number</i>
voice-duration	<i>time</i>

SPEECH

voice-family	inherit [<specific-voice, age, generic-voice, number>]
voice-rate	x-slow slow medium fast x-fast inherit %
voice-pitch	x-low low medium high x-high inherit <i>number</i> %
voice-pitch-range	x-low low medium high x-high inherit <i>number</i>
voice-stress	strong moderate none reduced inherit
voice-volume	silent x-soft soft medium loud x-loud inherit <i>number</i> %

TEMPLATE LAYOUT

box-align	start end center base
box-direction	normal reverse
box-flex	<i>number</i>
box-flex-group	<i>integer</i>
box-lines	single multiple
box-orient	horizontal vertical inlineaxis block-axis
box-pack	start end center justify
box-sizing	content-box padding-box border-box margin-box
tab-side	top bottom left right



LIST & MARKERS

list-style	<i>list-style-type</i> <i>list-style-position</i> <i>list-style-image</i>
list-style-image	none url
list-style-position	Inside outside
list-style-type	none asterisks box check circle diamond disc hyphen square decimal decimal-leadingzero lower-roman upperroman lower-alpha upper- alpha lower-greek lower-latin upper-latin hebrew armenian georgian cjk-ideographic hiragana katakana hiragana- iroha katakana-iroha footnotes
marker-offset	auto length

GRID POSITIONING

grid-columns	none inherit [length percentage relative length]
grid-rows	none inherit [length percentage relative length]

OUTLINE

outline	<i>outline-color</i> <i>outline-style</i> <i>outline-width</i>
outline-color	color invert
outline-offset	inherit length
outline-style	None dotted dashed solid double groove ridge inset outset
outline-width	thin medium thick length

3D / 2D TRANSFORM

backface-visibility	visible hidden
perspective	none number
perspective-origin	[[[percentage> <length> left center right] [<percentage> <length> top center bottom]?] <length>] [[[left center right] [top center bottom]] <length>]
transform	none matrix matrix3d translate3d translateX translateY translateZ scale scale3d scaleX scaleY scaleZ rotate rotate3d rotateX rotateY rotateZ skewX skewY skew perspective
transform-origin	[[[<percentage> <length> left center right] [<percentage> <length> top center bottom]?] <length>] [[[left center right] [top center bottom]] <length>]
transform-style	flat preserve-3d

HYPERLINK

target	<i>target-name</i> <i>target-new</i> <i>target-position</i>
target-name	current root parent new modal string
target-new	window tab none
target-position	above behind front back



GENERATED CONTENT

bookmark-label	content <i>attr</i> <i>string</i>
bookmark-level	none <i>integer</i>
bookmark-target	self <i>uri</i> <i>attr</i>
border-length	auto <i>length</i>
content	normal none inhibit <i>uri</i>
counter-increment	none <i>identifier number</i>
counter-reset	none <i>identifier number</i>
crop	auto <i>shape</i>
display	normal none list-item
float-offset	<i>length length</i>
hyphenate-after	auto <i>integer</i>
hyphenate-before	auto <i>integer</i>
hyphenate-character	auto <i>integer</i>
hyphenate-lines	no-limit <i>integer</i>
hyphenate-resource	none <i>uri</i>
hyphens	none manual auto
image-resolution	normal auto <i>dpi</i>
marks	[crop cross] none
move-to	normal here <i>identifier</i>
page-policy	start first last
quotes	none <i>string string string string</i>

GENERATED CONTENT

string-set	<i>identifier</i> <i>content-list</i>
text-replace	none [< <i>string</i> > < <i>string</i> >]+

POSITIONING

bottom	auto % <i>length</i>
clip	<i>shape</i> auto
left	auto % <i>length</i>
position	static relative absolute fixed
right	auto % <i>length</i>
top	auto % <i>length</i>
z-index	auto <i>number</i>

RUBY

ruby-align	auto start left center end right distribute-letter distribute-space lineedge
ruby-overhang	auto start end none
ruby-position	before after right inline
ruby-span	attr(x) none



LINE BOX

alignment-adjust	auto baseline before-edge text-before-edge middle central after-edge text-after-edge ideographic alphabetic hanging mathematical <i>length</i> %
alignment-baseline	baseline use-script before-edge text-before-edge after-edge text-after-edge central middle ideographic alphabetic hanging mathematical
baseline-shift	baseline sub super <i>length</i> %
dominant-baseline	auto use-script no-change reset-size alphabetic hanging ideographic mathematical central middle text-after-edge text-before-edge
drop-initial-after-align	<i>alignment-baseline</i>
drop-initial-after-adjust	central middle after-edge text-after-edge ideographic alphabetic mathematical <i>length</i> %
drop-initial-before-align	caps-height <i>alignment-baseline</i>
drop-initial-before-adjust	before-edge text-before-edge central middle hanging mathematical <i>length</i> %
drop-initial-value	initial integer
drop-initial-size	auto integer % <i>line</i>
inline-box-align	initial last <i>integer</i>
line-height	normal number <i>length</i> %

LINE BOX

line-stacking	<i>line-stacking-strategy</i> <i>line-stacking-ruby</i> <i>line-stacking-shift</i>
line-stacking-strategy	inline-line-height blockline-height max-height grid-height
line-stacking-ruby	exclude-ruby include-ruby
line-stacking-shift	consider-shifts disregardshifts
text-height	auto font-size text-size max-size
vertical-align	Baseline sub super top text-top middle bottom text-bottom <i>length</i> %

PAGED MEDIA

fit	fill hidden meet slice
fit-position	[top center bottom] [left center right] <i>length</i> %
image-orientation	auto <i>angle</i>
orphans	<i>integer</i>
page	auto <i>identifier</i>
page-break-after	auto always avoid left right
page-break-before	auto always avoid left right
page-break-inside	auto avoid
size	auto landscape portrait <i>length</i>
windows	<i>integer</i>



UI

appearance	normal inherit [icon window desktop workspace document tooltip dialog button pushbutton hyperlink radiobutton checkbox menuitem tab menu menubar pull-down-menu pop-up-menu list-menu radio-group checkboxgroup outline-tree range field combo-box signature password]
cursor	auto crosshair default pointer move e-resize ne-resize nw-resize nresize se-resize sw-resize s-resize w-resize text wait help url
icon	auto inherit url
nav-index	auto inherit number
nav-up	auto inherit <id> [current root <target-name>]
nav-right	auto inherit <id> [current root <target-name>]
nav-down	auto inherit <id> [current root <target-name>]
nav-left	auto inherit <id> [current root <target-name>]
resize	none both horizontal vertical inherit

PSEUDO-CLASS

:active	an activated element
:focus	an element while the element has focus
:visited	a visited link
:hover	an element when you mouse over it
:link	an unvisited link
:disabled	an element while the element is disabled
:enabled	an element while the element is enabled
:checked	an element (form element control) that is checked
:selection	an element that is currently selected or highlighted by the user
:lang	Allows the author to specify a language to use in a specified element
:nth-child(n)	an element that is the n-th sibling
:nth-last-child(n)	an element that is the n-th sibling counting from the last sibling
:first-child	an element that is the first sibling
:last-child	an element that is the last sibling
:only-child	an element that is the only child
:nth-of-type(n)	an element that is the n-th sibling of its type.
:nth-last-of-type(n)	an element that is the n-th sibling of its type counting from the last sibling
:last-of-type	an element that is the first sibling of its type
:first-of-type	an element that is the last sibling of its type
:only-of-type	an element that is the only child of that type
:empty	an element that has no children
:root	root element within the document
:not(x)	an element not represented by the argument 'x'
:target	a target element as specified by a target in a URI

PSEUDO-ELEMENT

::first-letter	Adds special style to the first letter of a text
::first-line	Adds special style to the first line of a text
::before	Inserts some content before an element
::after	Inserts some content after an element



UNITS

ABSOLUTE MEASUREMENT

%	percentage
cm	centimeter
in	inch
mm	millimeter
pc	pica (1p = 12 points)
pt	point (1pt = 1/72 inch)

RELATIVE MEASUREMENT

ch	width of the "0" glyph found in the font for the font size used to render
em	1em = current font size of current element
ex	x-height of the element's font
gd	the grid defined by 'layout-grid'
px	pixel of the viewing device
rem	the font size of the root element
vh	the viewport's height
vw	the viewport's width
vm	viewport's height or width, whichever is smaller of the two

ANGLES

deg	degrees
grad	grads
rad	radians
turn	turns

FREQUENCY

Hz	hertz
kHz	kilo-hertz

TIME

ms	milli-seconds
s	seconds

COLORS

color name	red, blue, green, dark green
rgb(x,y,z)	red = rgb(255,0,0)
rgb(x%,y%,z%)	red = rgb(100%,0,0)
rgba(x,y,z, alpha)	red = rgba(255,0,0)
#rrggbb	red = #ff0000 (or shorthand = #f00)
hsl(hue, saturation, lightness)	red = hsl(0, 100%, 50%)
hsla(hue, saturation, lightness, alpha)	red = hsl(0, 100%, 50%)
flavor	An accent color (typically chosen by the user) to customize the user interface of the user agent itself
currentColor	computed value of the 'currentColor' keyword is the computed value of the 'color' property



Name	Info	Example
Universal	Any element	<code>* { font: 10px Arial; }</code>
Type	Any element of that type	<code>h1 { text-decoration: underline; }</code>
Grouping	Multiple elements of different types	<code>h1, h2, h3 { font-family: Verdana; }</code>
Class	Multiple elements of different types when you don't want to affect all instances of that type	<code>.sampleclass { text-decoration: underline; }</code>
Id	A single element type when you don't want to affect all instances of that type	<code>#sampleid { text-decoration: underline; }</code>
Descendant	An element that is below (in the document tree) another element—no matter how many levels below	<code>#gallery h1 { text-decoration: underline; }</code>
Child	An element that is directly below (in the document tree) another element	<code>#title > p { font-weight: bold; }</code>
Adjacent Sibling	All elements that share the same parent and elements are in the same immediate sequence	<code>h1 + p { font-style: italic; }</code>
General Sibling	All elements that share the same parent and elements are in the same sequence (not necessarily immediate)	<code>h1 ~ p { font-style: italic; }</code>
Attribute	An element with that matches the attribute listed	<p><code>E[selected]</code> - att whatever the value</p> <p><code>E[att="val"]</code> - att with a specific value</p> <p><code>E[rel~="next"]</code> - att with a value is a whitespace separated list</p> <p><code>*[lang ="en"]</code> - att value either being exactly "val" or beginning with "val" immediately followed by "-"</p> <p><code>E[att^="val"]</code> - att value that begins with the prefix "val"</p> <p><code>E[att\$="val"]</code> - att value that end with the suffix "val"</p> <p><code>E[att*="val"]</code> - att value contains at least one instance of the substring "val"</p>

