

CSS Data Types

One of Those Things You Have To Know

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- » underneath the link to this slide show on
granneman.com
- » at files.granneman.com/presentations/webdev/CSS-Data-Types.txt

Defined

What's a *data type*?

A way to classify various kinds of data that are allowed as values for CSS properties

Text: <string> & <url>

Distance: <length>

Images: <color>

Basic Data Types

<string>

<url>

<length>

<color>

`<string>`

Represents a quoted string of Unicode characters

Covered earlier in CSS Selectors

<url>

Represents a *pointer to a web resource* (e.g., image or font)

Was <url>^{*}, then <uri>^{**}, but now back to <url>^{***}
(to stay, hopefully!)

^{*} CSS 1

^{**} CSS 2.1

^{***} CSS Values and Units Module 3

<url> expressed in 2 ways:

- » absolute or relative URL
- » data URL

Absolute	<code>http://baz.com/foo.png</code>	Complete URL
Site root-relative	<code>/foo.htm</code> <code>/bar/foo.png</code>	Web server fills in protocol & domain
	<code>foo.png</code>	Same directory
Document-relative	<code>bar/foo.png</code>	Down into sub-directory
	<code>../bar/foo.png</code>	Up into parent directory

Data URL

Resource inlining: instead of referencing an external image (via an absolute or relative URL), you instead embed the images directly into the style sheet

```
background-image: url(data:image/gif;base64,  
R0lGODlhEAAQAMQAAORHHOVSKu...)
```

Why? To save HTTP requests to the web server

The downside: it makes your style sheets bigger



data:image/gif;base64,R0lGODlhMAAwAPf/APbVfbQcv769vje/ /rqtumVI++tWvnkofC0ZvTKZem41/LBQt3d3deVc9WOZ/nhmeqaJfzxyvjcippz8/358fbWqezJtuymLv79/frmpNVsEsNcKftQW/PMqOmVHfTNbO2kSky9LS0u2tNvXh1Nt4Fu7u7vbYgvHx8frorPG6PfG7Me6wLf301fTNUtirlvj4+NeHVvnmquWJGeugJOB8F+qSMvPFX/G9ReykIu+5Zf766uqaHvrkneqdI+uZNuzs7PG7dPnhnfX19erq6v312NXV1fLBTeiLG+ymPvXVtdhzFN12JeSYVe2rNMrKyvrrvdJmEvfaJougIOOGGfrqu8JQEuyiP+uhKPvt3fbTdf323e+1Nfvs1fniwe2lJOubIsRSD+mTHPnevvnqfjdj/fp4vT09Pvp1efn5+Tk5PTJTuLi4vz38vbUeeWGItnZ2fvo0Pngvs5gEfjh1+bm5u2uL+Dg4Nvb2/vsuueEGGOiQHfzy0f316eGDGPzuweylLcxeEfbUgeucJMNWHOqbIPvs/bTY//9+vfXcumXH+iYHvjdjP317P305fvz7u2rMuynL/rps+yeQfjfjeeVHe6pMu+yMe6tJ/ror/njpffadPCyL+mYJOqZIdZvE+2nI+2pJPbUe+yiIeUCH+qYHfjbh+6sJPbYgfvqsfv7++ukK/TNa+mQG+60POGtkuuiIdR5RPzx8pcD83NzfTLj+yjJu6vJe2vTvbPnt2hgvjej/TK1vLFFv3y5/334u6xOPjd1vLYyfTNbvrpsfvqsvjdwvzyzvPd0fc4N+vp5/fUDomZKuykLOKhd/HSu/bavfngoPXRePbRftuRYOCNRvH0tvbRc/fZe+Szm/TMWPG0OPfxeeiLKspiJdF0O+qdMOJ/G9LBueSCHvTHXfLCWOnn5fHFnvrw6868tPbPcfjn2vrn08dchPbQcN+IPumRIOqRHuqSH/TIYu/AleqqNeOogOu9n8hWD++3OPG/eu+0M/nkmOakKe6pM///yH5BAEAAP8ALAAAAAAwADAAAAj/AP8JHEiwoEGBjhwdXMiwocN/vXo9nEjRYBcnTrpU3DhRxwIcojikXOjFDh1GkLyMXCkQEa41RVocwYWB5cgKdjJQoMDPTgWbHCkk0bZ1x44WLpIIAFqx1qUUR4vsyMCiFtOJjsAdKrI1QoQtLTjU63PVYRAuqX5FkCurwi8y1/SVZdgFC4AifAzpNcSnxFmGuaNJCMWJE8eQgQQFwkRTIEggvKsbWJz59UmFMVK/bnGABbcijjiFPhigpiEVKoXq06tYorFdDUXCkgRK4gIOAN+rICW4RUGYILD55K1qYVXyDAAxEkV4ilDfuM4YVgEjwwXzgtcAGA0oHFpCKL/x8PhcABSgBcLOD0BQy8SQh4eWk0cIyBH/Kw79ueqMyBTFAUQUBKfTwAN0JEjHgQj2kAkBAVaRwnmJqHdJe/H8gMAYAoCQwxoAMNKDDIpJMqEQA+yySxkstuji2UE00MGKUiimAwPMALAGjkYsBQFk0TCTQo4DsCIBKYkaYoE SCq5JJNJQgnlk0wyMsADRC4TCQgUDNTID5a4oUkwJ5SJCiplmnkmmmm2meaZbp4QjCzaWDIJfQT5YoMTWkQjhSiAiukGG4EGSiig gyJaqKCBSHNNZbY4MtBWXTjxDXBCHLNppx2ek0AmwYgqqekChKMO/7YkAVD7LzhhDpSSP/zway01srKrKzkemuttUojxQf+9IOG QyGMY8k8ggyTwLLMNuvss8wOMw05kYwTwkTQhAPLLVzkowIOR5Rzw7jklltuOUfgoAIX19wyRTjGVKREDbCcYu+9p2DCwr4sbMMFvyxggu+9U9SgBEcdzABLKAw37PDDEDcMCxUdjEQPFaBkrPHGHHeMRXnsNREJTmUbPLJKKecQyVN2PTOIqPELPPMNNc8igfV2MRE IVP07PPPQAc9BQ9MsNSGBqQkrfTSTDetdBSIrESCBjz4wMPVWGetddafWK3BOitz80khNPBQytlon2122mmTzcMnz6ykwBK eYKGIB3jnrYgPWGD/McgieeuNhSef3LOSMYWA sY oY jDNe9yqrDOID5IM3LoYHq4BRgj0rxVADFoC0IronzURywSBi+OGHGINcEEkznYje ygVY1EDNST/4cUEze0AAiROWQLBHCXPEEsscJfT+e/B7XHCBH7Gs1M4MI1QPjBMQILHELDEII5AwMcyyBBIQOAFM9SNQ4c1Ij4SB hCuujNDJDBpY4QAJBpHggBWfzNDJCPBDghWgsxFk4AMeIyiAH6JghQaYoSFmaIAVouCHAoxgD/jAH0csEA91CAKhNDFIyiCD10Q Igo10MMsLCCSV8whEBt4RRtE0oZXbGAOc8hGQzCgChjAYAhnmAAKjRywgRcowwRIRMEEhjAEHzqRiUJEIhCIQE VzvGADDUCBEpsi A1XUpIdCBEIa1MAAPIjDCCJIowiMgIc7qIEISIwjEdLABgbAQQS0eIIen0ALEaQDDgxgQx2AoMQu8hAGYSSCGthwBwY4Eg+OZEMa 4KjECVjSBGJcpB2NwEkjwAGQbkwDEEwwAUNGZiQBAQA7

base64

Encodes binary file into text

Convert any image format: JPEG, GIF, PNG, SVG

On Mac OS X & Linux

```
$ base64 star.gif
```

On Windows

```
Base64.exe -e star.gif  
(see support.microsoft.com/kb/191239)
```

[address, find IP address of a domain name](#)

[Convert IP address to different formats](#)

[Convert Unicode characters to HTML code numbers and vice versa](#)

[Convert Unicode characters to Unicode escape sequences and vice versa](#)

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Input base64 encoder and decoder:

Enter source data *: ?

-- Or --

Upload source file *:
Max 100 KB.

Conversion method *:
? Choose File no file selected

Select output *:
? Encode to Base64 string

Select output *:
? Output in textbox

Max characters per line *:
75 Allowed values 0 - 999. Use 0 for unlimited characters.

To prevent automated submissions an Access Code has been implemented for this tool.

Please enter the Access Code as displayed above*:

jH8

* = required

Convert

Clear

Output base64 encoder and decoder:

Select all

Clear

Used in many CSS properties, such as `background-image`, `cursor`, & `list-style`

<length>

Represents *distance measurements*: a <number> immediately followed by a unit

Units

- » Absolute
- » Relative (viewport-percentage or font-relative)

<length> is used with properties like...

- » width
- » height
- » margin
- » padding
- » border-width
- » font-size
- » text-shadow

Note: <percentage> is not a <length>, even those
some of these properties also accept it

Absolute <length>

px

cm

mm

Q

in

pc

pt

Of these, the foundation is **px**, because every **<length>** is eventually calculated as pixels

*Pixel means
picture element*

Pixels are not
just for computers!













Georges Seurat's *A Sunday Afternoon on the Island of La Grande Jatte* (1884)



Resolution is a measurement of the amount of effort it takes to see (or *resolve*) individual pixels

The Roman mosaic is low resolution

The Seurat painting is higher resolution

An iPhone is very high resolution

The basic unit of an electronic display is a *pixel*

All length measurements eventually get counted in pixels

For years, computer pixels were all **1/72** of an inch

Apple's iPhone 4 introduced the first high resolution devices that have much smaller pixels (300+ per inch – & my 2019 iPhone 11 Pro Max has 458 ppi)

The size of pixels in modern high resolution devices varies hugely

Thanks to these 2 changes, the size of a pixel in CSS had to be redefined

For good old “standard resolution” displays, a pixel is (still a device pixel, which is) $1/72$ inch

For high resolution displays (& other high resolution media like print) a CSS pixel is now about $1/96$ inch

So now it may take several device pixels to equal 1 CSS pixel

px 96 pixels per inch

cm 1 centimeter = 96px/2.54

mm 1 millimeter = 1/10 of 1cm

Q 1 quarter-millimeter = 1/40 of 1cm

in 1 inch = 2.54 cm = 96px

pc 1 pica = 1/6 of 1in = 12 pt

pt 1 point = 1/72 of 1in

Relative <length>

Relative lengths are measurements derived from some other distance

Depending on the unit, this can be based on...

- » size of a specific character
- » line height
- » viewport size

Units are either *viewport-percentage* or *font-relative*

Font-Relative <length>

ch

ex

em & rem

These values are relative to the size of the font

Of these, the most common you will see are **em** & **rem**

We will cover those & more in CSS Typography

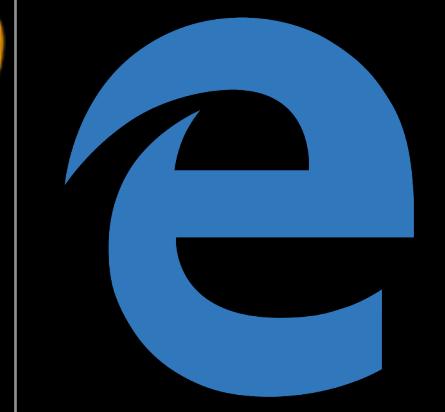
em

Represents the *calculated font-size* of an element

1 **em** is the height of the current font

rem

Represents the font-size set on the *root element*
(`<html>`)

							
ch	9*	12	2	7	7	27	4.4
ex	6	12	2	3.1	3.2	4	2.1
em	Y	Y	Y	Y	Y	Y	Y
rem	9† 11	12	3.6	5	4‡	4	2.1

* Width of **ch** is that of the **0** glyph, not its surrounding space

† Doesn't work with **font** or pseudo elements

‡ iOS Safari 5.0-5.1 doesn't support **rem** with media queries

Viewport Percentage <length>

vh

1% of the viewport's height

vw

1% of the viewport's width

vmin

1% of **vh** or **vw**—whichever is smaller

vmax

1% of **vh** or **vw**—whichever is larger

vi

1% of the initial containing block, in the direction of the root element's *inline axis*

vb

1% of the initial containing block, in the direction of the root element's *block axis*



vh	10	12	19	6.1	8	26	4.4
vw	10	12	19	6.1	6.1	26	4.4
vmin	10	12	19	6.1	6.1	26	4.4
vmax	-	-	19	6.1	8	26	4.4
vi	-	-	-	-	-	-	-
vb	-	-	-	-	-	-	-

calc()

`calc()`

CSS function that lets you perform calculations when specifying values for CSS properties

Can be used anywhere you could use a `<length>`,
`<frequency>`, `<angle>`, `<time>`, `<percentage>`,
`<number>`, or `<integer>`

Most commonly used with `<length>`

Can use +, -, ×, & / operators

- » × & / require at least 1 <number>
- » / requires that <number> is on the right
- » + & - must be surrounded by space (× & / do not require space, but use it for consistency)
- » / by 0 gives an error
- » Be careful using calc() with <percentage>s for width & height on tables

⚙️ HTML

```
1. <p>  
2.   Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn!  
3. </p>
```

Ph'nglui mglw'nafh
Cthulhu R'lyeh
wgah'nagl fhtagn!

⚙️ CSS (SCSS)

```
1. html {  
2.   font-size: calc(1em + 1vw)  
3. }  
4.
```

⚙️ JS

⚙️ HTML

```
1. <p>  
2.   Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn!  
3. </p>
```

Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl
fhtagn!

⚙️ CSS (SCSS)

```
1. html {  
2.   font-size: calc(1em + 1vw);  
3. }  
4.
```

⚙️ JS

⚙️ HTML

```
1. <p>  
2.   Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl  
     fhtagn!  
3. </p>
```

Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn!

⚙️ CSS (SCSS)

```
1. html {  
2.   font-size: calc(1em + 1vw);  
3. }  
4.
```

⚙️ JS

⚙️ HTML

```
1. <p>  
2.   Ph'nglui mglw'nafh  
3.   Cthulhu R'lyeh  
4.   wgah'nagl fhtagn!  
5. </p>
```

Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn!

⚙️ CSS (SCSS)

```
1. html {  
2.   font-size: calc(1em  
3.     + 1vw);  
4. }
```

⚙️ JS

HTML

```
1 <div></div>
```



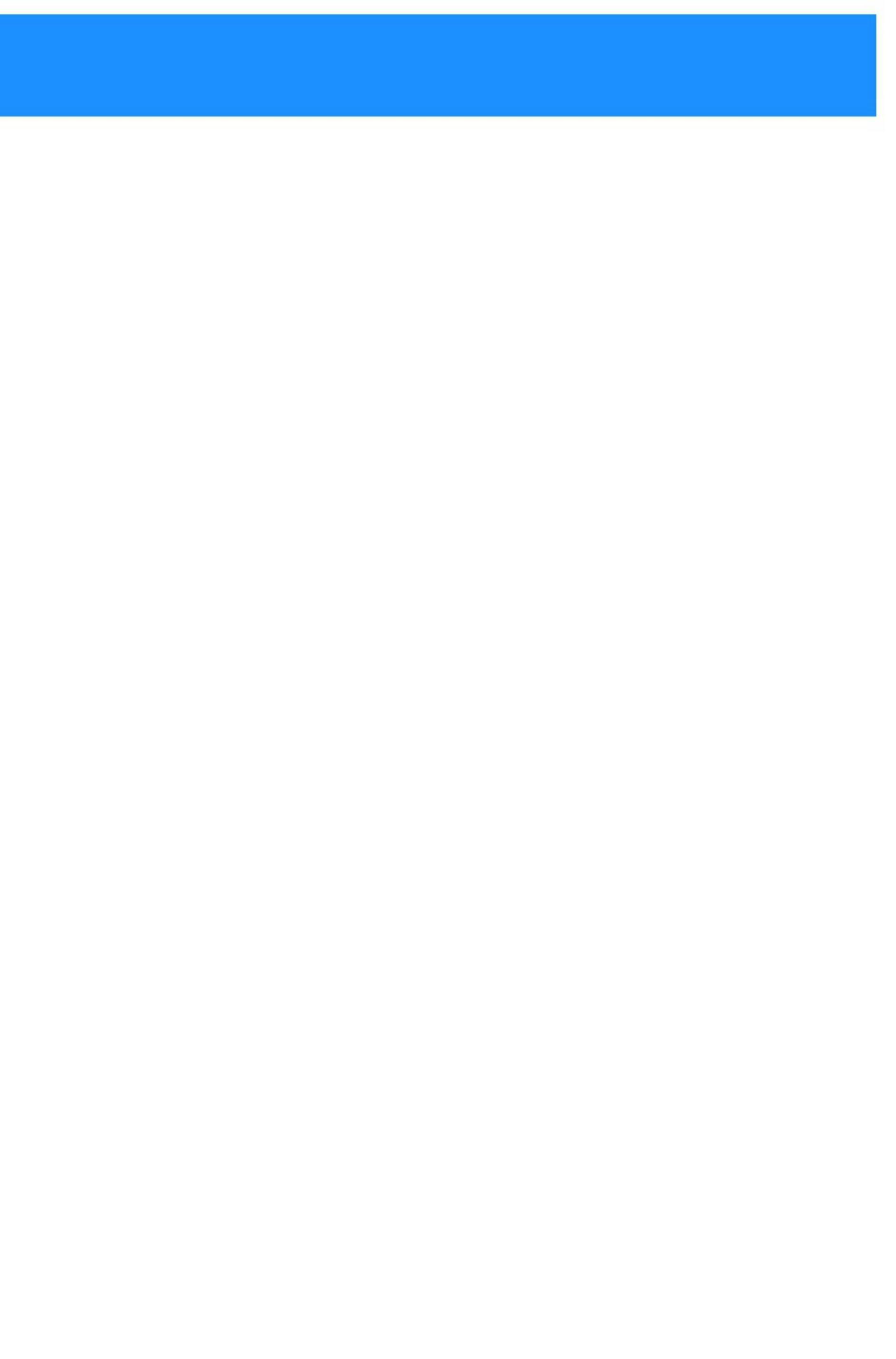
CSS (SCSS)

```
1 div {  
2   width: calc(100vw - 60px);  
3 }  
4
```



 **HTML**

1 <div></div>



 **CSS (SCSS)**

1 div {
2 width: calc(100vw - 60px);
3 }
4

 **JS**

HTML

```
1 <div></div>
```



CSS (SCSS)

```
1 div {  
2   width: calc(100vw - 60px);  
3 }  
4
```

JS

					iOS		
<code>calc()</code>	9 	12	16	6.1	7	26	67
<code><color></code> value	—	—	59	6	6	—	—
Nested <code>calc()</code>	—	16	48	11	11	51	Y
<code><number></code> value	9	12	48	6	6	31	4.4
<code><gradient></code> color stops	9	12	19	6	6	19	Y
<code>@media</code> expressions	—	79	59	12	12	66	Y

<color>

Represents a *color* in the sRGB color space

Descriptor	Value
Named colors	magenta
6-digit RGB hexadecimal	#RRGGBB
8-digit RGB hexadecimal	#RRGGBBAA
3-digit RGB hexadecimal	#RGB
4-digit RGB hexadecimal	#RGBA

Specifications		Color	Keyword	RGB cubic coordinates	Live Example
CSS3	CSS2	black	black	=rgb(0, 0, 0)	
		silver	silver	=rgb(192, 192, 192)	
		gray ^[*]	gray ^[*]	=rgb(128, 128, 128)	
		white	white	=rgb(255, 255, 255)	
		maroon	maroon	=rgb(128, 0, 0)	
		red	red	=rgb(255, 0, 0)	
		purple	purple	=rgb(128, 0, 128)	
		fuchsia	fuchsia	=rgb(255, 0, 255)	
		green	green	=rgb(0, 128, 0)	
		lime	lime	=rgb(0, 255, 0)	
		olive	olive	=rgb(128, 128, 0)	
		yellow	yellow	=rgb(255, 255, 0)	
		navy	navy	=rgb(0, 0, 128)	
		blue	blue	=rgb(0, 0, 255)	
		teal	teal	=rgb(0, 128, 128)	
		aqua	aqua	=rgb(0, 255, 255)	
		orange	orange	=rgb(255, 165, 0)	

Color keywords

CSS 1: 16

CSS 2: 1

CSS 3: 128



Rebecca Meyer (2008–2014), namesake for [rebeccapurple](#)

Numeral system

Humans use *base 10*: 0–9

Computers use *base 2 (binary)*: 0 & 1

Colors can be expressed with *hexadecimal*: 0–F (0–9, then A–F)

Hexadecimal notation

#**RRGGBB**

00: no color at all

FF: full color

#000000: no red, no green, no blue, so black

#FFFFFF: full red, full green, full blue, so white

#FF0000 (or #ff0000): full red, no green, no blue

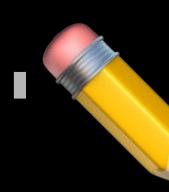
#00FF00: no red, full green, no blue

#0000FF: no red, no green, full blue

#FFFF00: full red, full green, no blue

#00FFFFFF: no red, full green, full blue

#E19427: almost full red, a bit over halfway green, low blue



SIDE NOTE

Hexadecimal numbers can use either capital or lowercase letters, so these are exactly the same:

#0455BF

#0455bf

#F3F112

#f3f112

Hexadecimal notation may add a 4th pair of digits for transparency: the *alpha channel*

00 represents a fully transparent color & FF represent a fully opaque color

#0000FF66: 66 (40%) alpha channel

#F3F112AA: AA (67%) alpha channel

Hexadecimal values & their alpha channel (transparency) equivalents

- » 00 is 0% – completely transparent
- » 33 is 20%
- » 66 is 40%
- » 99 is 60%
- » CC is 80%
- » FF is 100% – completely opaque

3-digit hexadecimal

#RGB

If all three color components (the R, G, & B) are matching pairs, you can abbreviate the hexadecimal notation

#FF0000 → #F00

#33AA77 → #3A7

#BBFF33 → #BF3

#DDEEFF → #DEF

4-digit hexadecimal

#RGBA

Hexadecimal notation may add a 4th hexadecimal number for the alpha channel, if the alpha channel could be expressed by 2 matching numbers

#FF0000 → #F00

#33AA77 → #3A7

#BBFF33 → #BF3

#DDEEFF → #DEF

#FF000033 → #F003

#33AA7766 → #3A76

#BBFF3399 → #BF39

#DDEEFFCC → #DEFCC

							
Named colors	3	12	1	1	1	1	1
rebeccapurple	11	12	33	9	8	38	Y
#RRGGBB	3	12	1	1	1	1	1
#RRGGBBAA	-	79	49	10	10	62	Y
#RGB	3	12	1	1	1	1	1
#RGBA	-	79	49	10	10	62	Y

Descriptor	Value
RGB <number>	<code>rgb(255, 0, 51)</code>
RGB <percentage>	<code>rgb(100%, 0%, 20%)</code>
RGB + Alpha	<code>rgba(255, 0, 51, 0.7)</code>
HSL	<code>hsl(348, 100%, 50%)</code>
HSL + Alpha	<code>hsla(348, 100%, 50%, 0.7)</code>

RGB function

`rgb(R, G, B)`

Expressed as either:

- » <integer>s between 0 (black) & 255 (white)
- » <percentage>s between 0 (black) & 100% (white)

May add a 4th place for alpha channel

`rgba(R,G,B,A)`

The alpha channel is a number between 0 & 1, where:

- » 0 is fully transparent
- » 1 is fully opaque

`rgb(255,0,0) → rgba(255,0,0,0.5)`

`rgb(0,255,201) → rgba(0,255,201,0.66)`

Hue

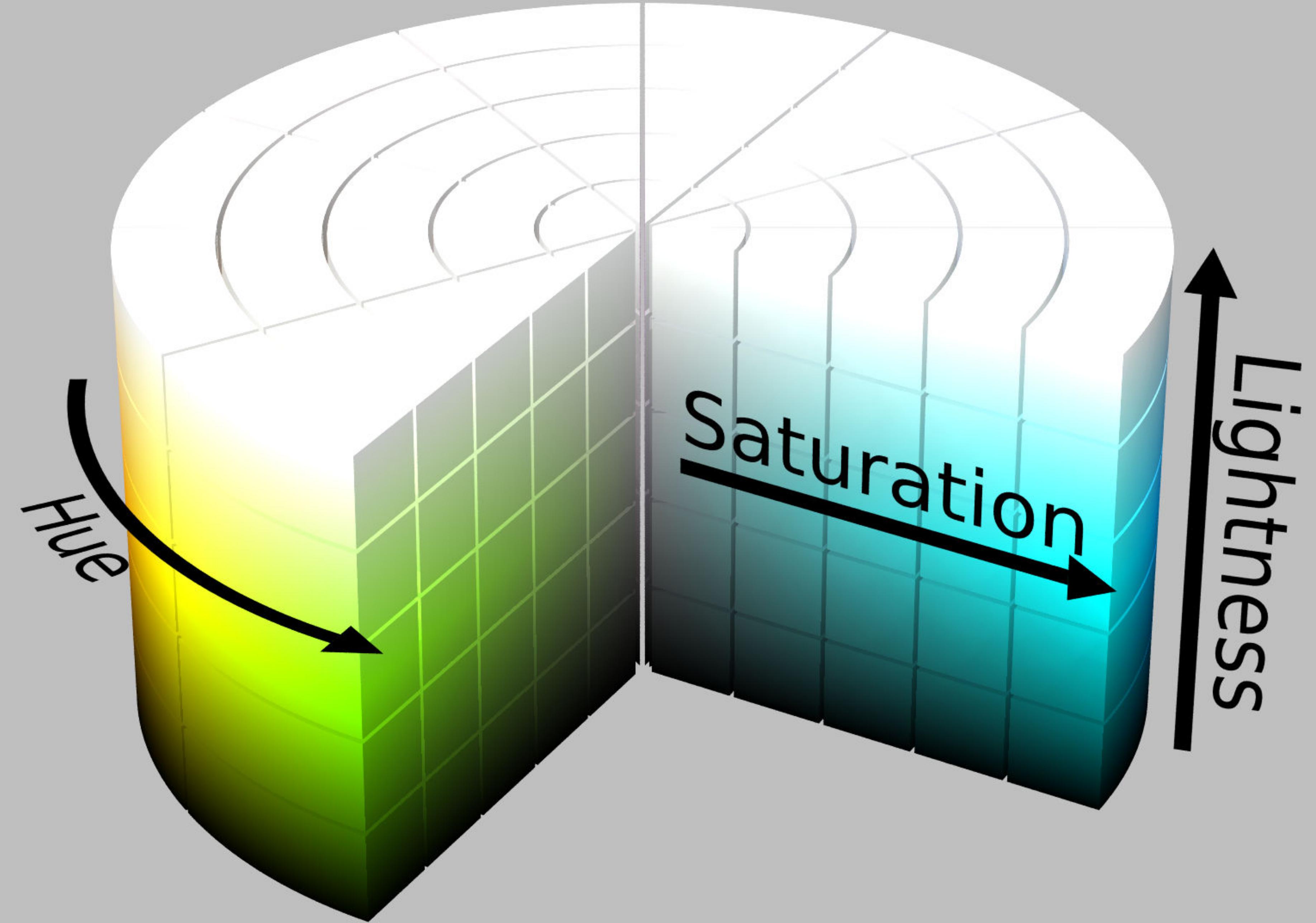
- » color
- » integer between 0 & 360

Saturation (AKA chroma)

- » intensity or purity of a hue
- » percentage between 0 & 100%

Lightness

- » relative degree of black or white mixed with a hue
- » percentage between 0 & 100%



May add a 4th place for alpha channel

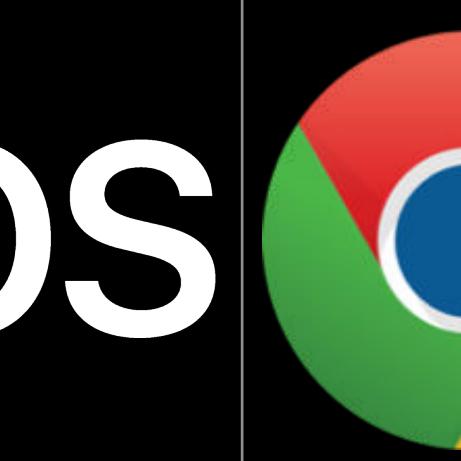
hsla(H,S,L,A)

The alpha channel is a number between 0 & 1, where:

- » 0 is fully transparent
- » 1 is fully opaque

hsl(360,100%,100%) → hsla(360,100%,100%,0.5)

hsl(165,87%,100%) → hsla(165,87%,100%,0.66)

							
<code>rgb()</code>	4	12	1	1	1	1	1
<code>rgba()</code>	9	12	3	3.1	5.1	1	2.3
<code>hsl()</code>	9	12	1	3.1	5.1	1	2.3
<code>hsla()</code>	9	12	3	3.1	5.1	1	2.3

Descriptor	Value
Special keywords	transparent & currentColor

`transparent`

Fully transparent

`currentcolor`

Value of the *selected element's font color*, allowing you to use the color value on properties that do not receive it by default

HTML

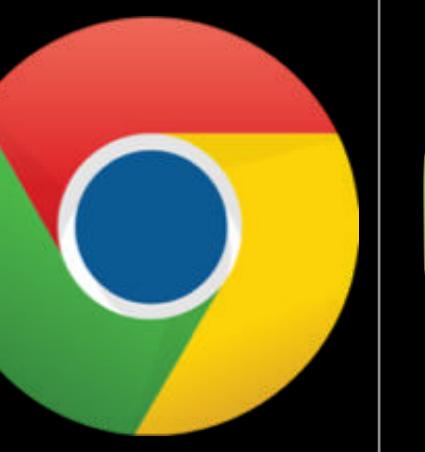
```
1. <p>Ph'nglui mglw'nafh Cthulhu R'lyeh  
wgah'nagl fhtagn!</p>
```

CSS

```
1. p {  
2.   color: green;  
3.   border-color: currentcolor;  
4. }  
5.  
6.  
7.  
8.  
9.  
10.  
11.  
12.  
13.
```

JS

Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn!

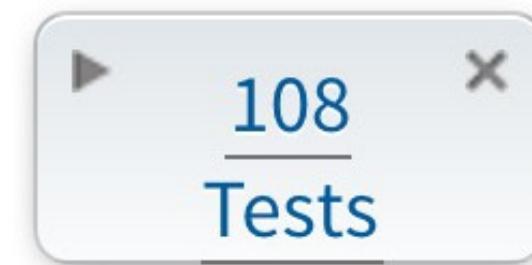
					iOS		
transparent	9	12	3	3.1	3.2	1	Y
currentcolor	9	12	1.5	4	3.2	1	Y

More Info



CSS Values and Units Module Level 3

Editor's Draft, 24 September 2018



► Specification Metadata

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Abstract

This CSS module describes the common values and units that CSS properties accept and the syntax used for describing them in CSS property definitions.

[CSS](#) is a language for describing the rendering of structured documents (such as HTML and XML) on screen, on paper, etc.

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CSS Values and Units Module Level 4

Editor's Draft, 5 July 2020



► Specification Metadata

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Abstract

This CSS module describes the common values and units that CSS properties accept and the syntax used for describing them in CSS property definitions.

CSS is a language for describing the rendering of structured documents (such as HTML and XML) on screen, on paper, etc.

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CSS Data Types

One of Those Things You Just Have To Know

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Last updated 2020-07-17

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Changelog

2020-07-17 2.2: Removed URLs in visible slide, as they are in the Notes; updated `calc()` screenshots; added iPhone 11 Pro Max to retina display

Changelog

2020-07-13 2.1: Added latest screenshot of CSS Values and Units Module Level 4; improved screenshots for siblings & parents; divided `<color>` into sub-sections for easier understanding; added details re: `#RRGGBBAA` & `#RGBA`; added `rebeccapurple`; added compatibility charts for *Font-Relative* `<length>`; updated table for *Absolute* `<length>`; updated compatibility chart for `rgb()` & `hsl()`; added example for `currentcolor`; added `calc()` explanations & examples

Changelog

2020-07-02 2.0: Hid `<ident>` & `<custom-ident>` as they're really about how to read the spec; hid `<integer>`, `<number>`, & `<percentage>` because they're too obvious; moved `<gradient>`, `<image>`, `<shape>/<basic-shape>`, `<filter-function>`, & `<blend-mode>` to *CSS Effects*; moved `<ratio>` & `<resolution>` to Media Types & Media Features; moved `<time>`, `<timing-function>`, `<transform-function>`, & `<angle>` to CSS Effects; moved `<frequency>` to *Accessibility* in *For Developers Only*; bumped up to 2.0 because of so many big changes

Changelog

2018-10-24 1.5: Removed `e` notation as being wrong;
added More Info chapter

2018-09-02 1.4: Updated compatibility tables for
`<blend-mode>`; updated theme to Granneman 1.4; fixed
minor formatting issues; updated list of data types;
reorganized everything; added more to `<url>`; added
section on `<custom-ident>`

Changelog

2015-01-24 1.3: Added screenshots for `em` & `rem`

2014-10-20 1.2: Added `<integer>` to list

2014-08-06 1.1: Included browser support for `<color>`

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