

The css-colors Package

History

X11 colors

The [X11 color names](#) [1], developed in the 1980s, included a file named `rgb.txt` that was shipped with every X11 installation. It mapped over 400 color names to specific RGB values. This list was used in Unix-based systems to standardize color representation, but it suffered from inconsistencies in invocation and usage.

Sixteen named colors

The [HTML 3.2 specification](#) [2] of 1996 introduced sixteen color names, derived from the standard 16 colors supported by the Windows VGA palette. These colors, called the *sixteen named colors*, are:

- aqua
- black
- blue
- fuchsia
- gray
- green
- lime
- maroon
- navy
- olive
- purple
- red
- silver
- teal
- white
- yellow

Thanks to this standard, these sixteen color names could be used reliably and consistently in documents across the Web, without recourse to their hexadecimal values.

The CSS Level 1 colors introduced in 1996 specified these same sixteen colors, while the CSS Level 2 colors, introduced in 1998, augmented this list to seventeen named colors, with the addition of orange.

SVG/CSS colors

Finally, the [SVG 1.1 Specification](#) of 2011 [3] and the [CSS Color Module Level 3](#) [4] of 2022 have standardized on a list of 147 color names, known as the “recognized color keyword names” or the “extended color keywords” respectively. They include the original 16 colors, augmented by orange, and additional colors from the X11 set. These

colors—common to both the CSS and SVG standards—are referred to as the CSS colors in this manual and package.

This standardization aims to provide a consistent color naming scheme across the Web, and has remained relatively stable. It is this set of color names that forms the basis for this package. How the CSS colors were given their rather idiosyncratic names is explained in a lighthearted but factual fashion by Alex Sexton in this [this You Tube video](#) [5].

There are 147 “recognized CSS color keyword names” all of which are unique. But of these, only 138 have unique Hex values. This means that there are nine pairs of named colors that share the same hex value as shown in [Table 1](#).

CSS colors vis-a-vis Typst

Typst ships with [eighteen predefined colors](#) which include the sixteen named colors, plus orange, plus one more color named eastern. The color eastern is undefined in the CSS colors.

The remaining seventeen colors have identical names, but—with the exception of white and black—they have different RGB/Hex values, as shown in [Table 2](#).

Purpose of Package

The `css-colors` package is a robust convenience which allows [CSS/SVG colors](#) to be used by their names within a Typst file, rather than by their RGB/Hex codes, which have to be looked up.

Easy Reference

For easy reference the CSS color names, their RGB/Hex codes, color swatches, and color stripes have been tabulated in [Table 3](#).

You may also view them in a browser by clicking on this [link](#).

Implementation

Function

The `css-colors` package provides a single function `css` defined as:

```
css(  
  str color-name  
) -> color
```

Parameters

- `color-name`

A string representing the color name. The `color-name` parameter can be specified in either lowercase or CamelCase formats, both of which are valid.

Exports

- `color`

The `css` function returns an RGB color corresponding to the specified `color-name`.

Since the returned value is of type `color`, it can be used with any of Typst's [color functions](#).

Usage

The following examples demonstrate the usage of the `css-colors` package in various cases:

1. Coloring text with a CSS color.

```
#import "@preview/css-colors:0.1.0": *  
  
Normal text may be #text(fill: css("crimson"))[colored so.]
```

Normal text may be `colored so.`

2. Filling a rectangle with a CSS color.

```
#import "@preview/css-colors:0.1.0": *  
  
#rect(width: 100%, height: auto, fill: css("darkorchid"))
```



3. CSS color names can be specified in lowercase or CamelCase so both `saddlebrown` and `SaddleBrown` are valid.

```
#import "@preview/css-colors:0.1.0": *  
  
(a) saddlebrown: #box(width: 30mm, height: 1em, fill:  
css("saddlebrown"))  
  
(b) SaddleBrown: #box(width: 30mm, height: 1em, fill:  
css("SaddleBrown"))
```


(a) saddlebrown: 


(b) SaddleBrown: 

4. The maroon color in Typst differs from the Maroon color defined in CSS, as evidenced by their distinct hex codes. To emphasize this distinction, the CSS Maroon is intentionally capitalized with an initial uppercase letter.

```
#import "@preview/css-colors:0.1.0": *

#grid(
  columns: 3,
  rows: 2,
  row-gutter: 10pt,
  column-gutter: 10pt,
  [Typst maroon], [#color.maroon.to-hex()], [#box(width: 30mm,
height: 1em, fill: maroon)],
  [CSS maroon], [#css("Maroon").to-hex()], [#box(width: 30mm,
height: 1em, fill: css("Maroon"))]
)
```

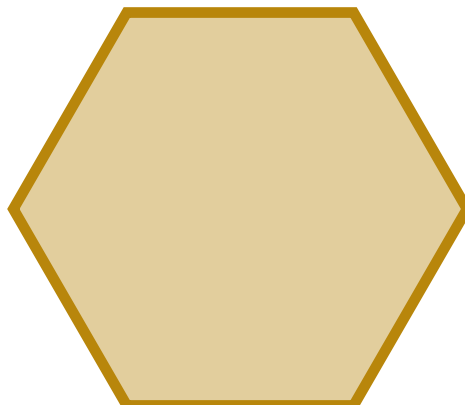
Typst maroon #85144b 

CSS maroon #800000 

5. CSS colors may also be used in the context of drawing and data visualization.

```
#import "@preview/css-colors:0.1.0": *

#align(center)[
  #polygon.regular(
    fill: css("darkgoldenrod").lighten(60%),
    stroke: (paint: css("darkgoldenrod"), thickness: 4pt, cap:
"round"),
    size: 60mm,
    vertices: 6,
  )
]
```



6. CSS colors may be used to underline text.

```
#import "@preview/css-colors:0.1.0": *  
  
This is #underline(stroke: css("teal"))[important.]  
  
This is #underline(stroke: (paint: css("teal"), thickness: 2pt))  
[important.]
```

This is important.

This is important.

References

- [1] Wikipedia contributors, “X11 color names,” 2025. [Online]. Available: https://en.wikipedia.org/w/index.php?title=X11_color_names
- [2] W3C, “HTML 3.2 Features At a Glance,” Dec. 09, 1996. [Online]. Available: <https://www.w3.org/MarkUp/Wilbur/features.html>
- [3] W3C, “Recognized color keyword names,” Aug. 10, 2011. [Online]. Available: <https://www.w3.org/TR/SVG11/types.html#ColorKeywords>
- [4] W3C, “Extended color keywords,” Jan. 18, 2022. [Online]. Available: <https://www.w3.org/TR/css-color-3/#svg-color>
- [5] Alex Sexton, *Peachpuffs and Lemonchiffons [CSSConfUS2014]*. Accessed: Jul. 17, 2014. [Online Video]. Available: <https://www.youtube.com/watch?v=HmStJQzclHc>

Appendix 1

| ALIASED COLOR NAMES | HEX VALUE | SWATCH |
|----------------------------------|-----------|---------------------------------------------------------------------------------------|
| aqua cyan | #00ffff |  |
| darkgray darkgrey | #a9a9a9 |  |
| darkslategray darkslategrey | #2f4f4f |  |
| dimgray dimgrey | #696969 |  |
| fuchsia magenta | #ff00ff |  |
| gray grey | #808080 |  |
| lightgray lightgrey | #d3d3d3 |  |
| lightslategray lightslategrey | #778899 |  |
| slategray slategrey | #708090 |  |

Table 1: CSS colors sharing the same hex value.

Appendix 2

| COLOR NAME | TYPST HEX VALUE | SWATCH | CSS HEX VALUE | SWATCH |
|------------|-----------------|-------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|
| aqua | #7fdbff |  | #00ffff |  |
| black | #000000 |  | #000000 |  |
| blue | #0074d9 |  | #0000ff |  |
| eastern | #239dad |  | Not Defined | Not Defined |
| fuchsia | #f012be |  | #ff00ff |  |
| gray | #aaaaaa |  | #808080 |  |
| green | #2ecc40 |  | #008000 |  |
| lime | #01ff70 |  | #00ff00 |  |
| maroon | #85144b |  | #800000 |  |
| navy | #001f3f |  | #000080 |  |
| olive | #3d9970 |  | #808000 |  |
| orange | #ff851b |  | #ffa500 |  |
| purple | #b10dc9 |  | #800080 |  |












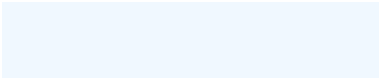

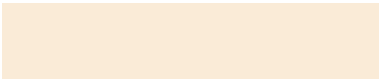





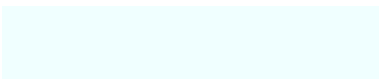



























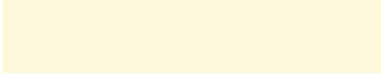








































| COLOR NAME | TYPST HEX VALUE | SWATCH | CSS HEX VALUE | SWATCH |
|------------|-----------------|-----------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|
| red | #ff4136 |  | #ff0000 |  |
| silver | #dddddd |  | #c0c0c0 |  |
| teal | #39cccc |  | #008080 |  |
| white | #ffffff |  | #ffffff |  |
| yellow | #ffdc00 |  | #ffff00 |  |





Table 2: Comparison of Typst and CSS colors.

Appendix 3










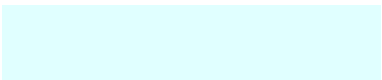















| NAME | HEX VALUE | SWATCH | STRIPE |
|----------------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| aliceblue | #f0f8ff |  |  |
| antiquewhite | #faebd7 |  |  |
| aqua | #00ffff |  |  |
| aquamarine | #7fffd4 |  |  |
| azure | #f0ffff |  |  |
| beige | #f5f5dc |  |  |
| bisque | #ffe4c4 |  |  |
| black | #000000 |  |  |
| blanchedalmond | #ffebcd |  |  |
| blue | #0000ff |  |  |
| blueviolet | #8a2be2 |  |  |
| brown | #a52a2a |  |  |
| burlywood | #deb887 |  |  |








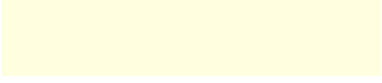





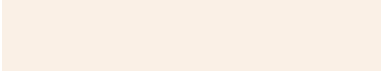












| NAME | HEX VALUE | SWATCH | STRIPE |
|----------------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| cadetblue | #5f9ea0 |  |  |
| chartreuse | #7fff00 |  |  |
| chocolate | #d2691e |  |  |
| coral | #ff7f50 |  |  |
| cornflowerblue | #6495ed |  |  |
| cornsilk | #fff8dc |  |  |
| crimson | #dc143c |  |  |
| cyan | #00ffff |  |  |
| darkblue | #00008b |  |  |
| darkcyan | #008b8b |  |  |
| darkgoldenrod | #b8860b |  |  |
| darkgray | #a9a9a9 |  |  |
| darkgreen | #006400 |  |  |
















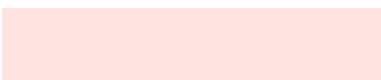







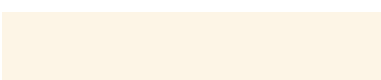


| NAME | HEX VALUE | SWATCH | STRIPE |
|----------------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| darkgrey | #a9a9a9 |  |  |
| darkkhaki | #bdb76b |  |  |
| darkmagenta | #8b008b |  |  |
| darkolivegreen | #556b2f |  |  |
| darkorange | #ff8c00 |  |  |
| darkorchid | #9932cc |  |  |
| darkred | #8b0000 |  |  |
| darksalmon | #e9967a |  |  |
| darkseagreen | #8fbc8f |  |  |
| darkslateblue | #483d8b |  |  |
| darkslategray | #2f4f4f |  |  |
| darkslategrey | #2f4f4f |  |  |
| darkturquoise | #00ced1 |  |  |



























| NAME | HEX VALUE | SWATCH | STRIPE |
|-------------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| darkviolet | #9400d3 |  |  |
| deeppink | #ff1493 |  |  |
| deepskyblue | #00bfff |  |  |
| dimgray | #696969 |  |  |
| dimgrey | #696969 |  |  |
| dodgerblue | #1e90ff |  |  |
| firebrick | #b22222 |  |  |
| floralwhite | #fffaf0 |  |  |
| forestgreen | #228b22 |  |  |
| fuchsia | #ff00ff |  |  |
| gainsboro | #dcdcdc |  |  |
| ghostwhite | #f8f8ff |  |  |
| gold | #ffd700 |  |  |




















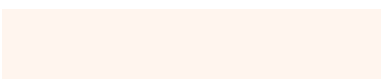






| NAME | HEX VALUE | SWATCH | STRIPE |
|---------------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| goldenrod | #daa520 |  |  |
| gray | #808080 |  |  |
| green | #008000 |  |  |
| greenyellow | #adff2f |  |  |
| grey | #808080 |  |  |
| honeydew | #f0fff0 |  |  |
| hotpink | #ff69b4 |  |  |
| indianred | #cd5c5c |  |  |
| indigo | #4b0082 |  |  |
| ivory | #fffff0 |  |  |
| khaki | #f0e68c |  |  |
| lavender | #e6e6fa |  |  |
| lavenderblush | #fff0f5 |  |  |


| NAME | HEX VALUE | SWATCH | STRIPE |
|----------------------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| lawngreen | #7cfc00 |  |  |
| lemonchiffon | #ffffac |  |  |
| lightblue | #add8e6 |  |  |
| lightcoral | #f08080 |  |  |
| lightcyan | #e0ffff |  |  |
| lightgoldenrodyellow | #fafad2 |  |  |
| lightgray | #d3d3d3 |  |  |
| lightgreen | #90ee90 |  |  |
| lightgrey | #d3d3d3 |  |  |
| lightpink | #ffb6c1 |  |  |
| lightsalmon | #ffa07a |  |  |
| lightseagreen | #20b2aa |  |  |
| lightskyblue | #87cefa |  |  |

| NAME | HEX VALUE | SWATCH | STRIPE |
|------------------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| lightslategray | #778899 |  |  |
| lightslategrey | #778899 |  |  |
| lightsteelblue | #b0c4de |  |  |
| lightyellow | #ffffe0 |  |  |
| lime | #00ff00 |  |  |
| limegreen | #32cd32 |  |  |
| linen | #faf0e6 |  |  |
| magenta | #ff00ff |  |  |
| maroon | #800000 |  |  |
| mediumaquamarine | #66cdaa |  |  |
| mediumblue | #0000cd |  |  |
| mediumorchid | #ba55d3 |  |  |
| mediumpurple | #9370db |  |  |

| NAME | HEX VALUE | SWATCH | STRIPE |
|-------------------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| mediumseagreen | #3cb371 |  |  |
| mediumslateblue | #7b68ee |  |  |
| mediumspringgreen | #00fa9a |  |  |
| mediumturquoise | #48d1cc |  |  |
| mediumvioletred | #c71585 |  |  |
| midnightblue | #191970 |  |  |
| mintcream | #f5fffa |  |  |
| mistyrose | #ffe4e1 |  |  |
| moccasin | #ffe4b5 |  |  |
| navajowhite | #ffddead |  |  |
| navy | #000080 |  |  |
| oldlace | #fdf5e6 |  |  |
| olive | #808000 |  |  |

| NAME | HEX VALUE | SWATCH | STRIPE |
|---------------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| olivedrab | #6b8e23 |  |  |
| orange | #ffa500 |  |  |
| orangered | #ff4500 |  |  |
| orchid | #da70d6 |  |  |
| palegoldenrod | #eee8aa |  |  |
| palegreen | #98fb98 |  |  |
| paleturquoise | #afeeee |  |  |
| palevioletred | #db7093 |  |  |
| papayawhip | #ffefd5 |  |  |
| peachpuff | #ffdab9 |  |  |
| peru | #cd853f |  |  |
| pink | #ffc0cb |  |  |
| plum | #dda0dd |  |  |

| NAME | HEX VALUE | SWATCH | STRIPE |
|-------------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| powderblue | #b0e0e6 |  |  |
| purple | #800080 |  |  |
| red | #ff0000 |  |  |
| rosybrown | #bc8f8f |  |  |
| royalblue | #4169e1 |  |  |
| saddlebrown | #8b4513 |  |  |
| salmon | #fa8072 |  |  |
| sandybrown | #f4a460 |  |  |
| seagreen | #2e8b57 |  |  |
| seashell | #fff5ee |  |  |
| sienna | #a0522d |  |  |
| silver | #c0c0c0 |  |  |
| skyblue | #87ceeb |  |  |

| NAME | HEX VALUE | SWATCH | STRIPE |
|-------------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| slateblue | #6a5acd |  |  |
| slategray | #708090 |  |  |
| slategrey | #708090 |  |  |
| snow | #ffffaf |  |  |
| springgreen | #00ff7f |  |  |
| steelblue | #4682b4 |  |  |
| tan | #d2b48c |  |  |
| teal | #008080 |  |  |
| thistle | #d8bfd8 |  |  |
| tomato | #ff6347 |  |  |
| turquoise | #40e0d0 |  |  |
| violet | #ee82ee |  |  |
| wheat | #f5deb3 |  |  |



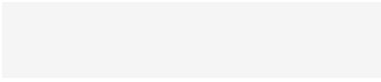




| NAME | HEX VALUE | SWATCH | STRIPE |
|-------------|-----------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| white | #ffffff |  | |
| whitesmoke | #f5f5f5 |  |  |
| yellow | #ffff00 |  |  |
| yellowgreen | #9acd32 |  |  |

Table 3: Available CSS colors.