CSS Colors Module

Introduction

The X11 color names, 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.

The HTML 3.2 specification of 1996 introduced sixteen color names, derived from the standard 16 colors supported by the Windows VGA palette. These named colors are: `aqua`, `black`, `blue`, `fuchsia`, `gray`, `green`, `lime`, `maroon`, `navy`, `olive`, `purple`, `red`, `silver`, `teal`, `white`, and `yellow`. These named colors allowed users the convenience of names to be used for colors reliably and consistently across HTML documents, without recourse to their hexadecimal values.

The CSS Level 1 colors in 1996 introduced the same sixteen colors as the HTML 3.2 colors above while the CSS Level 2 colors augmented this by `orange` to seventeen named colors.

Finally, the SVG 1.0 Specification of 2001 and the CSS Color Module Level 3 of 2011 have standardized a list of 147 color names, known as the "extended color keywords" or the "recognized color keyword names" which included the original 16 colors, `orange`, and additional colors from the X11 set. This standardization aims to provide a consistent color naming scheme across web, and has remained relatively stable. It is this set of color names that forms the basis for this module.

Purpose

This module allows SVG colors to be used by their names rather than by their RGB or Hex values from within a typst file. It is principally a convenience for those who use SVG colors in their documents.

Context

Typst comes with seven standard color functions for accessing colors.

For LaTeX users, the standard way of invoking colors would have been something like:

`\usepackage[svgnames]{xcolor}` or `\usepackage[dvipsnames]{xcolor}`.

This would allow files to access *named colors* from within `.tex` documents.

A module that allows named SVG colors to be used within `.typ` files would be a convenience for LaTeX users transitioning to Typst.

Moreover, *any* user who wishes to use SVG named colors would also benefit from this module.

Reference documentation

For easy reference, tabulations of the SVG color name, its RGB/Hex value, a color swatch, and a color stripe are available as

a. PDF and

b. HTML

files.

Usage

svg.(

Notes

The table below is a comparison of the RBG/Hex values of the eighteen predefined colors shipped with Typst and the corresponding SVG colors having the same name:

Color Name	Typst Hex Code	Swatch	SVG Hex Code	Swatch
aqua	rgb("#7fdbff")		rgb("#00ffff")	
black	rgb("#000000")		rgb("#000000")	
blue	rgb("#0074d9")		rgb("#0000ff")	
eastern	rgb("#239dad")		N/A	N/A
fuchsia	rgb("#f012be")		rgb("#ff00ff")	
gray	rgb("#aaaaaa")		rgb("#808080")	
green	rgb("#2ecc40")		rgb("#008000")	
lime	rgb("#01ff70")		rgb("#00ff00")	

Color Name	Typst Hex Code	Swatch	SVG Hex Code	Swatch
maroon	rgb("#85144b")		rgb("#800000")	
navy	rgb("#001f3f")		rgb("#000080")	
olive	rgb("#3d9970")		rgb("#808000")	
orange	rgb("#ff851b")		rgb("#ffa500")	
purple	rgb("#b10dc9")		rgb("#800080")	
red	rgb("#ff4136")		rgb("#ff0000")	
silver	rgb("#dddddd")		rgb("#c0c0c0")	
teal	rgb("#39cccc")		rgb("#008080")	
white	rgb("#ffffff")		rgb("#ffffff")	
yellow	rgb("#ffdc00")		rgb("#ffff00")	

References

https://www.youtube.com/watch?v=HmStJQzclHc Alex Sexton: Peachpuffs and Lemonchiffons [CSSConfUS2014]