

# Converting Colors

$Y_{xy}(24.7750, 0.2077, 0.2003)$

Have a look what the booklet for  
Yxy(24.7750, 0.2077, 0.2003)  
contains.

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# Color

**$Y_{xy}(24.7750, 0.2077, 0.2003)$**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	5388DF
RGB	83, 136, 223
RGB Percent	33%, 53%, 87%
CMY	0.6744, 0.4667, 0.1256
CMYK	0.63, 0.39, 0.00, 0.13
HSL	217°, 69%, 60%
HSV	217°, 63%, 87%
XYZ	25.6903, 24.7750, 73.2242
YIQ	130.0710, -59.5150, 15.8210

# Conversions

## Conversions Part 2

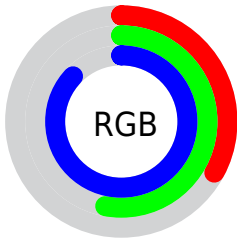
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	83, 121, 223
Decimal	5474527
CIE Lab	56.86, 9.25, -49.61
CIE LCh	57, 50.466, 280.560
Yxy	24.7750, 0.2077, 0.2003
Android (android.graphics.Color)	4283664607 (0xFF5388DF)
YUV	130.0710, 45.8140, -41.2813
Hunter-Lab	49.7745, 5.0245, -52.3805

# Details

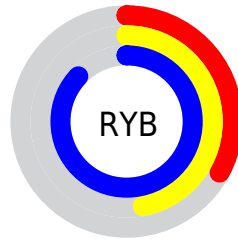
The Yxy color **24.7750, 0.2077, 0.2003** is a dark color, and the websafe version is hex **6699FF**. The color can be described as middle muted azure. A complement of this color would be **45.0651, 0.4379, 0.4256**, and the grayscale version is **22.2038, 0.3127, 0.3290**.

A 20% lighter version of the original color is **49.5445, 0.2400, 0.2490**, and **9.6064, 0.1795, 0.1660** is the 20% darker color. If you saturate the color by 10%, you get **20.2644, 0.1931, 0.1762**, and if you desaturate by 10%, it is **30.1181, 0.2240, 0.2244**.

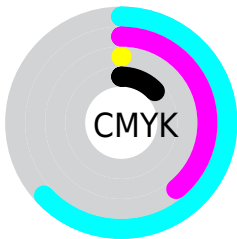
# Distribution



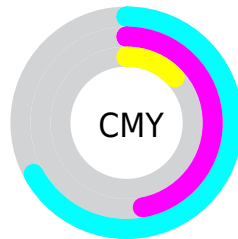
- Red (33%)
- Green (53%)
- Blue (87%)



- Red (33%)
- Yellow (47%)
- Blue (87%)



- Cyan (63%)
- Magenta (39%)
- Yellow (0%)
- Black (13%)



- Cyan (67%)
- Magenta (47%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.7750, 0.2077, 0.2003 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 24.7750, 0.2077, 0.2003 by changing the saturation by 10% instead.



■ 24.7750, 0.2077,  
0.2003

■ 24.7750, 0.2077,  
0.2003

276.7156, 0.2627,  
0.2658

■ 15.9095, 0.1938,  
0.1844

■ 51.2920, 0.2280,  
0.2240

■ 9.4601, 0.1761,  
0.1644

■ 69.7122, 0.2355,  
0.2329

■ 5.0425, 0.1532,  
0.1392

■ 92.0862, 0.2419,  
0.2405

■ 2.2722, 0.1231,  
0.1071

■ 118.7983, 0.2473,  
0.2470

■ 0.7589, 0.0841,  
0.0671

150.2329, 0.2520,  
0.2527

■ 0.0000, 0.0000,  
0.0000

186.7744, 0.2560,

0.2576

228.8071, 0.2596,  
0.2619

■ 24.7750, 0.2077,  
0.2003

■ 24.7750, 0.2077,  
0.2003

■ 20.2644, 0.1931,  
0.1762

■ 30.1181, 0.2240,  
0.2244

■ 16.5320, 0.1808,  
0.1531

■ 36.3377, 0.2413,  
0.2477

■ 13.5190, 0.1713,  
0.1318

■ 43.4770, 0.2588,  
0.2697

■ 11.7278, 0.1661,  
0.1179

■ 51.5754, 0.2761,  
0.2900

■ 60.6698, 0.2928,  
0.3084

70.7950, 0.3085,  
0.3248

81.9839, 0.3233,  
0.3394

93.0297, 0.3326,  
0.3525

98.1065, 0.3316,  
0.3602

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



24.7750, 0.1729, 0.2146



24.7750, 0.2077, 0.2003



24.7750, 0.2724, 0.2127

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



24.7750, 0.2077, 0.2003



24.7750, 0.4827, 0.3595



24.7750, 0.2537, 0.4370

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



24.7750, 0.2077, 0.2003



45.0651, 0.4379, 0.4256

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



24.7750, 0.3333, 0.4883



24.7750, 0.2077, 0.2003



24.7750, 0.4685, 0.4215

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



24.7750, 0.2077, 0.2003



24.7750, 0.4417, 0.2993



24.7750, 0.4118, 0.4739



24.7750, 0.1947, 0.3431



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



24.7750, 0.2077, 0.2003



24.7750, 0.3292, 0.2338



24.7750, 0.4118, 0.4739



24.7750, 0.2790, 0.4614

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



24.7758, 0.2077, 0.2003



74.2098, 0.2822, 0.2969



57.4816, 0.2626, 0.4063



15.1475, 0.2774, 0.2914



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



24.7758, 0.2077, 0.2003



25.9469, 0.1893, 0.1696



14.1922, 0.2015, 0.1324



14.0892, 0.2981, 0.3140



7.0984, 0.1669, 0.1207



0.6607, 0.1755, 0.1516



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



23.6545, 0.4340, 0.2704



26.6800, 0.4743, 0.2663



66.6042, 0.3871, 0.4812



13.7859, 0.3233, 0.3202



9.6246, 0.5457, 0.2780

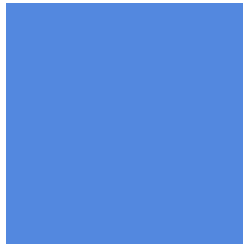


0.6842, 0.5038, 0.2549



# Previews

## White Background



This preview shows how the Yxy color 24.7750, 0.2077, 0.2003 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

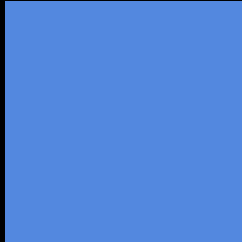
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 24.7750, 0.2077, 0.2003 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

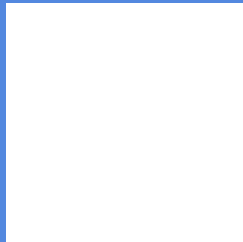
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 24.7750, 0.2077, 0.2003**

## Background



This preview shows how black text looks on a background with the Yxy color 24.7750, 0.2077, 0.2003.



This preview shows how white text looks on a background with the Yxy color 24.7750, 0.2077, 0.2003.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

24.7750, 0.2077, 0.2003

### Protanopia

24.7091, 0.2178, 0.2018

### Deuteranopia

24.6854, 0.2067, 0.2000



## Tritanopia

24.7719, 0.2294, 0.3064

# Trichromacy



## Original Color

24.7750, 0.2077, 0.2003

## Protanomaly

24.6503, 0.2136, 0.2010

## Deuteranomaly

24.7299, 0.2072, 0.2001

## Tritanomaly

24.4640, 0.2197, 0.2599

# Monochromacy



## Original Color

24.7750, 0.2077, 0.2003

## Achromatopsia

22.3228, 0.3127, 0.3290

## Achromatomaly

22.6936, 0.2628, 0.2740

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.7750, 0.2077, 0.2003 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(83, 136, 223)` looks like.

```
.text, #text, p{  
  color:rgb(83, 136, 223)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(83, 136, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 136, 223) }
```

## Border

The CSS property to change the border of an element to Yxy 24.7750, 0.2077, 0.2003 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(83, 136, 223) }
```

If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(83, 136, 223) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(83, 136, 223) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 136, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 136, 223);  
box-shadow:4px 4px 4px 4px rgb(83, 136,  
223) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.7750, 0.2077, 0.2003 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 136, 223) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(83, 136,  
223) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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