

# Converting Colors

$Y_{xy}(20.9789, 0.1896, 0.1685)$

Have a look what the booklet for  
Yxy(20.9789, 0.1896, 0.1685)  
contains.

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# Color

**Yxy(20.9789, 0.1896, 0.1685)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3B7BE9
RGB	59, 123, 233
RGB Percent	23%, 48%, 91%
CMY	0.7679, 0.5178, 0.0862
CMYK	0.75, 0.47, 0.00, 0.09
HSL	218°, 80%, 57%
HSV	218°, 75%, 91%
XYZ	23.6059, 20.9789, 79.9190
YIQ	116.4040, -73.4540, 20.6420

# Conversions

## Conversions Part 2

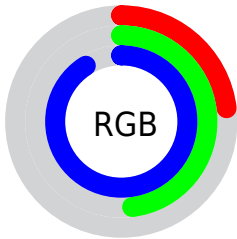
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	59, 106, 233
Decimal	3898345
CIE Lab	52.93, 17.19, -61.57
CIE LCh	53, 63.927, 285.602
Yxy	20.9789, 0.1896, 0.1685
Android (android.graphics.Color)	4282088425 (0xFF3B7BE9)
YUV	116.4040, 57.4818, -50.3433
Hunter-Lab	45.8027, 11.8410, -71.3904

# Details

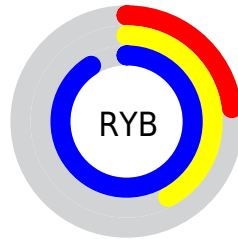
The Yxy color **20.9789, 0.1896, 0.1685** is a dark color, and the websafe version is hex **3366CC**. The color can be described as middle washed azure. A complement of this color would be **46.1160, 0.4621, 0.4381**, and the grayscale version is **17.4467, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.4691, 0.2281, 0.2292**, and **8.1667, 0.1708, 0.1347** is the 20% darker color. If you saturate the color by 10%, you get **17.0292, 0.1777, 0.1454**, and if you desaturate by 10%, it is **25.7992, 0.2040, 0.1929**.

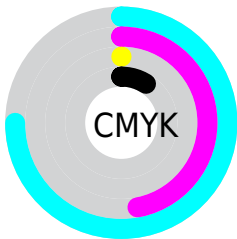
# Distribution



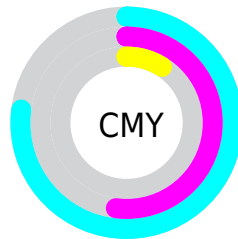
- Red (23%)
- Green (48%)
- Blue (91%)



- Red (23%)
- Yellow (42%)
- Blue (91%)



- Cyan (75%)
- Magenta (47%)
- Yellow (0%)
- Black (9%)



- Cyan (77%)
- Magenta (52%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 20.9789, 0.1896, 0.1685 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 20.9789, 0.1896, 0.1685 by changing the saturation by 10% instead.



■ 20.9789, 0.1896,  
0.1685

■ 20.9789, 0.1896,  
0.1685

■ 257.1663, 0.2544,  
0.2485

■ 13.1086, 0.1735,  
0.1500

■ 45.0524, 0.2133,  
0.1968

■ 7.5034, 0.1534,  
0.1276

■ 62.0244, 0.2223,  
0.2077

■ 3.7788, 0.1280,  
0.1005

■ 82.7991, 0.2298,  
0.2170

■ 1.5506, 0.0963,  
0.0687

■ 107.7608, 0.2362,  
0.2251

■ 0.3240, 0.0585,  
0.0261

■ 137.2940, 0.2417,  
0.2321

■ 0.0000, 0.0000,  
0.0000

171.7831, 0.2465,

0.2382

211.6124, 0.2507,  
0.2437

■ 20.9789, 0.1896,  
0.1685

■ 20.9789, 0.1896,  
0.1685

■ 17.0292, 0.1777,  
0.1454

■ 25.7992, 0.2040,  
0.1929

■ 13.8780, 0.1688,  
0.1245

■ 31.5488, 0.2203,  
0.2176

■ 12.4606, 0.1651,  
0.1143

■ 38.2824, 0.2376,  
0.2416

■ 46.0492, 0.2553,  
0.2644

■ 54.8948, 0.2728,  
0.2855

■ 64.8618, 0.2897,  
0.3046

■ 75.9903, 0.3057,  
0.3218

■ 88.3184, 0.3206,  
0.3370

■ 98.6650, 0.3256,  
0.3502

# Harmonies

## Analogous

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



20.9789, 0.1430, 0.1774



20.9789, 0.1896, 0.1685



20.9789, 0.2755, 0.1887

# Triad

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



20.9789, 0.1896, 0.1685



20.9789, 0.5358, 0.3701



20.9789, 0.2163, 0.4589

# Complementary

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



20.9789, 0.1896, 0.1685



46.1160, 0.4621, 0.4381

# 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.



20.9789, 0.3130, 0.5434



20.9789, 0.1896, 0.1685



20.9789, 0.4981, 0.4482

# Square

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



20.9789, 0.1896, 0.1685



20.9789, 0.4987, 0.2982



20.9789, 0.4147, 0.5217



20.9789, 0.1524, 0.3219



# Rectangle

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



20.9789, 0.1896, 0.1685



20.9789, 0.3524, 0.2167



20.9789, 0.4147, 0.5217



20.9789, 0.2462, 0.4984

# Sweetspot

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



20.9795, 0.1896, 0.1685



70.2637, 0.2771, 0.2904



61.9989, 0.2593, 0.4243



14.3576, 0.2724, 0.2850



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.



20.9795, 0.1896, 0.1685



18.5207, 0.1722, 0.1328



10.7152, 0.1803, 0.0988



15.4539, 0.2980, 0.3137



7.2846, 0.1659, 0.1171



0.7501, 0.1736, 0.1448



# Inverse Universe

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



21.9059, 0.4751, 0.2685



23.0961, 0.5268, 0.2740



72.7222, 0.3947, 0.5008



15.1454, 0.3235, 0.3204



10.2282, 0.5508, 0.2808



0.8211, 0.5128, 0.2598



# Previews

## White Background



This preview shows how the Yxy color 20.9789, 0.1896, 0.1685 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

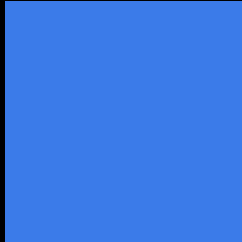
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 20.9789, 0.1896, 0.1685 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

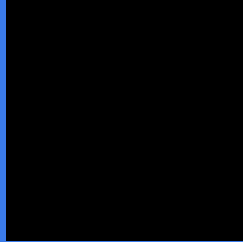
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

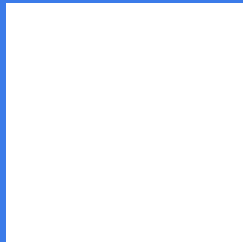
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 20.9789, 0.1896, 0.1685**

## **Background**



This preview shows how black text looks on a background with the Yxy color 20.9789, 0.1896, 0.1685.



This preview shows how white text looks on a background with the Yxy color 20.9789, 0.1896, 0.1685.

# 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

20.9789, 0.1896, 0.1685

### Protanopia

21.0105, 0.1932, 0.1693

### Deuteranopia

20.9293, 0.1829, 0.1785



## Tritanopia

20.6672, 0.2184, 0.3063

# Trichromacy



**Original Color**

20.9789, 0.1896, 0.1685

**Protanomaly**

20.8691, 0.1916, 0.1687

**Deuteranomaly**

20.7494, 0.1833, 0.1734

**Tritanomaly**

20.2409, 0.2033, 0.2427

# Monochromacy



**Original Color**

20.9789, 0.1896, 0.1685

**Achromatopsia**

17.4647, 0.3127, 0.3290

**Achromatomaly**

18.1298, 0.2473, 0.2551

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.9789, 0.1896, 0.1685 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(59, 123, 233)` looks like.

```
.text, #text, p{  
    color:rgb(59, 123, 233)  
}
```

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(59, 123, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(59, 123, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 20.9789, 0.1896, 0.1685 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(59, 123, 233) }
```

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

```
.border{ border-color:rgb(59, 123, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(59, 123, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(59, 123, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(59, 123, 233);  
box-shadow:4px 4px 4px 4px rgb(59, 123,  
233) }
```



# Background

The CSS property to change the background color of an element to Yxy 20.9789, 0.1896, 0.1685 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(59, 123, 233) }
```

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

```
.background{ background-color: rgb(59, 123,  
233) }
```

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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