

# Converting Colors

$Y_{xy}(24.4255, 0.1913, 0.1616)$

Have a look what the booklet for  
Yxy(24.4255, 0.1913, 0.1616)  
contains.

<b>Yxy(24.4983, 0.1915, 0.1620)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(24.4983, 0.1915, 0.1620)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4D81FF
RGB	77, 129, 255
RGB Percent	30%, 51%, 100%
CMY	0.6977, 0.4941, 0.0002
CMYK	0.70, 0.49, 0.00, 0.00
HSL	222°, 100%, 65%
HSV	222°, 70%, 100%
XYZ	28.9594, 24.4983, 97.7664
YIQ	127.8160, -71.4380, 28.1620

# Conversions

## Conversions Part 2

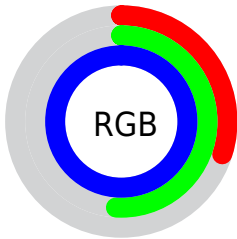
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	77, 117, 255
Decimal	5079551
CIE <sub>Lab</sub>	56.58, 23.59, -67.80
CIE <sub>LCh</sub>	57, 71.791, 289.184
Yxy	24.4983, 0.1915, 0.1620
Android (android.graphics.Color)	4283269631 (0xFF4D81FF)
YUV	127.8160, 62.7017, -44.5656
Hunter-Lab	49.4958, 17.8208, -82.4654

# Details

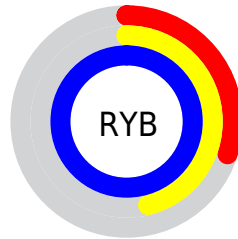
The Yxy color **24.4983, 0.1915, 0.1620** is a light color, and the websafe version is hex **3366CC**. The color can be described as light washed azure. A complement of this color would be **64.5223, 0.4422, 0.4463**, and the grayscale version is **21.3257, 0.3127, 0.3290**.

A 20% lighter version of the original color is **46.1970, 0.2383, 0.2389**, and **9.9161, 0.1691, 0.1288** is the 20% darker color. If you saturate the color by 10%, you get **19.2931, 0.1777, 0.1365**, and if you desaturate by 10%, it is **30.9607, 0.2078, 0.1891**.

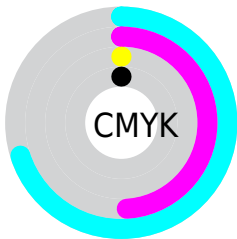
# Distribution



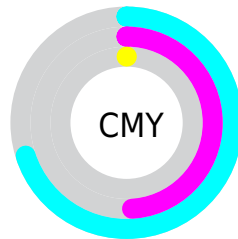
- Red (30%)
- Green (51%)
- Blue (100%)



- Red (30%)
- Yellow (46%)
- Blue (100%)



- Cyan (70%)
- Magenta (49%)
- Yellow (0%)
- Black (0%)




- Cyan (70%)
- Magenta (49%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.4983, 0.1915, 0.1620 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 24.4983, 0.1915, 0.1620 by changing the saturation by 10% instead.





 24.4983, 0.1915,  
0.1620


 24.4983, 0.1915,  
0.1620


275.3301, 0.2539,  
0.2418


 15.7037, 0.1765,  
0.1444


 50.8421, 0.2139,  
0.1895


 9.3147, 0.1581,  
0.1236


 69.1601, 0.2225,  
0.2003

 4.9470, 0.1351,  
0.0989


 91.4214, 0.2297,  
0.2096

 2.2162, 0.1065,  
0.0703

 118.0103, 0.2359,  
0.2177

 0.7288, 0.0722,  
0.0391

149.3112, 0.2413,  
0.2249

 0.0000, 0.0217,  
0.0000

185.7086, 0.2460,

 0.0000, 0.0000,

0.2312

0.0000

227.5867, 0.2502,  
0.2368

■ 24.4983, 0.1915,  
0.1620

■ 24.4983, 0.1915,  
0.1620

■ 19.2931, 0.1777,  
0.1365

■ 30.9607, 0.2078,  
0.1891

■ 15.2471, 0.1670,  
0.1138

■ 38.7625, 0.2257,  
0.2164

■ 12.2304, 0.1598,  
0.0951

■ 47.9808, 0.2443,  
0.2429

■ 12.1678, 0.1596,  
0.0947

■ 58.6854, 0.2628,  
0.2678

■ 70.9415, 0.2806,  
0.2906

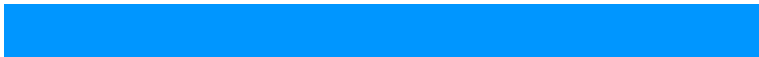
■ 84.8102, 0.2975,  
0.3112

99.9967, 0.3127,  
0.3291

# Harmonies

## Analogous

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



24.4983, 0.1389, 0.1668



24.4983, 0.1915, 0.1620



24.4983, 0.2863, 0.1863

# Triad

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



24.4983, 0.1915, 0.1620



24.4983, 0.5470, 0.3784



24.4983, 0.1994, 0.4514

# Complementary

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



24.4983, 0.1915, 0.1620



64.5223, 0.4422, 0.4463

# 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.



24.4983, 0.2976, 0.5549



24.4983, 0.1915, 0.1620



24.4983, 0.4972, 0.4610

# Square

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



24.4983, 0.1915, 0.1620



24.4983, 0.5198, 0.3036



24.4983, 0.4048, 0.5388



24.4983, 0.1391, 0.3044



# Rectangle

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



24.4983, 0.1915, 0.1620



24.4983, 0.3699, 0.2173



24.4983, 0.4048, 0.5388



24.4983, 0.2292, 0.4975

# Sweetspot

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



24.4990, 0.1915, 0.1620



69.3654, 0.2785, 0.2879



77.3144, 0.2539, 0.3971



14.1001, 0.2736, 0.2818



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.



24.4990, 0.1915, 0.1620



17.4492, 0.1727, 0.1264



16.0271, 0.1966, 0.1147



18.2413, 0.2979, 0.3117



6.5827, 0.1604, 0.0974



0.8198, 0.1665, 0.1192



# Inverse Universe

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



28.1569, 0.4800, 0.2825



23.8176, 0.5330, 0.2853



87.1435, 0.3819, 0.5011



18.0743, 0.3248, 0.3221



11.3925, 0.5797, 0.2967

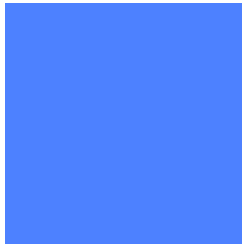


1.1273, 0.5477, 0.2791



# Previews

## White Background



This preview shows how the Yxy color 24.4983, 0.1915, 0.1620 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

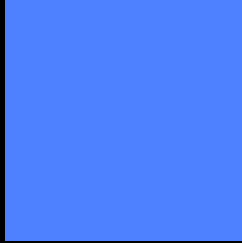
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 24.4983, 0.1915, 0.1620 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

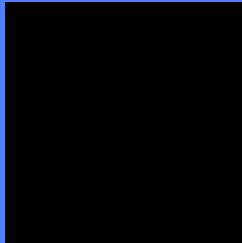
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

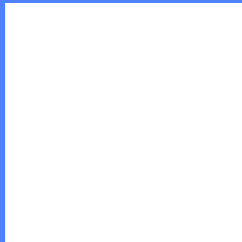
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 24.4983, 0.1915, 0.1620**

## **Background**



This preview shows how black text looks on a background with the Yxy color 24.4983, 0.1915, 0.1620.



This preview shows how white text looks on a background with the Yxy color 24.4983, 0.1915, 0.1620.

# 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

24.4983, 0.1915, 0.1620

### Protanopia

24.6108, 0.1883, 0.1631

### Deuteranopia

24.5878, 0.1832, 0.1793



## Tritanopia

24.3859, 0.2188, 0.3078

# Trichromacy



## Original Color

24.4983, 0.1915, 0.1620

## Protanomaly

24.4874, 0.1893, 0.1623

## Deuteranomaly

24.2902, 0.1832, 0.1716

## Tritanomaly

23.5330, 0.2028, 0.2385

# Monochromacy



## Original Color

24.4983, 0.1915, 0.1620

## Achromatopsia

21.5861, 0.3127, 0.3290

## Achromatomaly

21.7455, 0.2504, 0.2514

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.4983, 0.1915, 0.1620 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(77, 129, 255)` looks like.

```
.text, #text, p{  
    color:rgb(77, 129, 255)  
}
```

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(77, 129, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 129, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 24.4983, 0.1915, 0.1620 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(77, 129, 255) }
```

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

```
.border{ border-color:rgb(77, 129, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 129, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 129, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 129, 255);  
box-shadow:4px 4px 4px 4px rgb(77, 129,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.4983, 0.1915, 0.1620 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 129, 255) }
```

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

```
.background{ background-color: rgb(77, 129,  
255) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor