

# Converting Colors

$Y_{xy}(24.0071, 0.2005, 0.1578)$

Have a look what the booklet for  
Yxy(24.0071, 0.2005, 0.1578)  
contains.

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# Color

**Yxy(23.9638, 0.2005, 0.1576)**

# Conversions

## Conversions Part 1

Format	Color
Hex	667AFF
RGB	102, 122, 255
RGB Percent	40%, 48%, 100%
CMY	0.5999, 0.5216, 0.0001
CMYK	0.60, 0.52, 0.00, 0.00
HSL	232°, 100%, 70%
HSV	232°, 60%, 100%
XYZ	30.4869, 23.9638, 97.6038
YIQ	131.1820, -54.6130, 37.1230

# Conversions

## Conversions Part 2

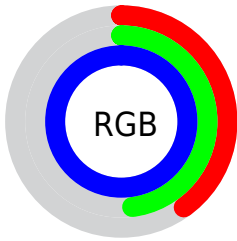
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">102, 120, 255</a>
Decimal	<a href="#">6716159</a>
CIELab	<a href="#">56.05, 31.70, -68.61</a>
CIElCh	<a href="#">56, 75.582, 294.795</a>
Yxy	<a href="#">23.9638, 0.2005, 0.1576</a>
Android (android.graphics.Color)	<a href="#">4284906239 (0xFF667AFF)</a>
YUV	<a href="#">131.1820, 61.0423, -25.5926</a>
Hunter-Lab	<a href="#">48.9528, 25.4991, -83.9474</a>

# Details

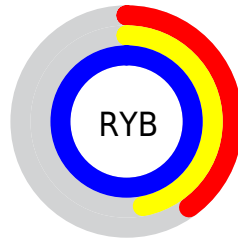
The Yxy color **23.9638, 0.2005, 0.1576** is a light color, and the websafe version is hex **6666FF**. A complement of this color would be **81.6285, 0.4087, 0.4549**, and the grayscale version is **22.5604, 0.3127, 0.3290**.

A 20% lighter version of the original color is **45.3846, 0.2491, 0.2331**, and **9.0389, 0.1684, 0.1194** is the 20% darker color. If you saturate the color by 10%, you get **17.8596, 0.1827, 0.1274**, and if you desaturate by 10%, it is **31.7687, 0.2203, 0.1898**.

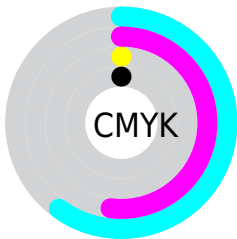
# Distribution



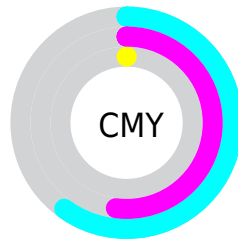
- Red (40%)
- Green (48%)
- Blue (100%)



- Red (40%)
- Yellow (47%)
- Blue (100%)



- Cyan (60%)
- Magenta (52%)
- Yellow (0%)
- Black (0%)




- Cyan (60%)
- Magenta (52%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 23.9638, 0.2005, 0.1576 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 23.9638, 0.2005, 0.1576 by changing the saturation by 10% instead.





 23.9638, 0.2005,  
0.1576


 23.9638, 0.2005,  
0.1576


272.6374, 0.2592,  
0.2387


 15.3068, 0.1862,  
0.1400


 49.9711, 0.2218,  
0.1853

 9.0350, 0.1683,  
0.1191


 68.0902, 0.2299,  
0.1963

 4.7640, 0.1458,  
0.0946


 90.1321, 0.2367,  
0.2058

 2.1095, 0.1175,  
0.0665

116.4812, 0.2425,  
0.2141

 0.6699, 0.0827,  
0.0358

147.5219, 0.2475,  
0.2213

 0.0000, 0.0355,  
0.0000

183.6385, 0.2519,

 0.0000, 0.0000,

0.2278

0.0000

225.2156, 0.2557,  
0.2335

■ 23.9638, 0.2005,  
0.1576

■ 23.9638, 0.2005,  
0.1576

■ 17.8596, 0.1827,  
0.1274

■ 31.7687, 0.2203,  
0.1898

■ 13.3249, 0.1683,  
0.1014

■ 41.3877, 0.2407,  
0.2219

■ 10.2123, 0.1581,  
0.0813

■ 52.9267, 0.2607,  
0.2527

■ 8.3250, 0.1523,  
0.0682

■ 66.4828, 0.2797,  
0.2810

■ 8.3231, 0.1523,  
0.0681

■ 82.1465, 0.2971,  
0.3065

99.9983, 0.3127,  
0.3290

# Harmonies

## Analogous

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



23.9638, 0.1389, 0.1563



23.9638, 0.2005, 0.1576



23.9638, 0.3078, 0.1879

# Triad

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



23.9638, 0.2005, 0.1576



23.9638, 0.5531, 0.3925



23.9638, 0.1773, 0.4289

# Complementary

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



23.9638, 0.2005, 0.1576



81.6285, 0.4087, 0.4549

# 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.



23.9638, 0.2735, 0.5597



23.9638, 0.2005, 0.1576



23.9638, 0.4876, 0.4804

# Square

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



23.9638, 0.2005, 0.1576



23.9638, 0.5440, 0.3145



23.9638, 0.3853, 0.5600



23.9638, 0.1248, 0.2776



# Rectangle

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



23.9638, 0.2005, 0.1576



23.9638, 0.3988, 0.2228



23.9638, 0.3853, 0.5600



23.9638, 0.2055, 0.4826

# Sweetspot

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



23.9645, 0.2005, 0.1576



69.4396, 0.2833, 0.2863



80.3035, 0.2471, 0.3533



13.9466, 0.2780, 0.2785



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.



23.9645, 0.2005, 0.1576



16.8284, 0.1795, 0.1218



24.0057, 0.2334, 0.1517



17.7601, 0.2979, 0.3077



4.4671, 0.1527, 0.0698



0.5481, 0.1571, 0.0853



# Inverse Universe

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



32.1678, 0.4774, 0.3103



26.6507, 0.5308, 0.3102



84.5906, 0.3587, 0.4920



18.0257, 0.3274, 0.3259



11.1789, 0.6236, 0.3209

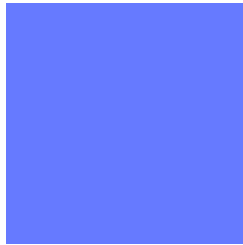


1.0999, 0.5985, 0.3071



# Previews

## White Background



This preview shows how the Yxy color 23.9638, 0.2005, 0.1576 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

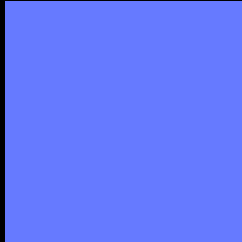
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 23.9638, 0.2005, 0.1576 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

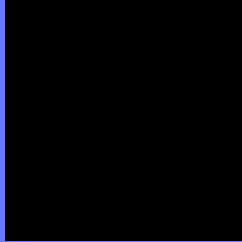
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 23.9638, 0.2005, 0.1576**

## Background



This preview shows how black text looks on a background with the Yxy color 23.9638, 0.2005, 0.1576.



This preview shows how white text looks on a background with the Yxy color 23.9638, 0.2005, 0.1576.

# 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

23.9638, 0.2005, 0.1576

### Protanopia

23.9773, 0.1867, 0.1602

### Deuteranopia

23.8403, 0.1831, 0.1790



## Tritanopia

23.9259, 0.2329, 0.3062

# Trichromacy



## Original Color

23.9638, 0.2005, 0.1576

## Protanomaly

23.7195, 0.1905, 0.1582

## Deuteranomaly

23.2185, 0.1836, 0.1681

## Tritanomaly

23.1974, 0.2174, 0.2358

# Monochromacy



## Original Color

23.9638, 0.2005, 0.1576

## Achromatopsia

22.6966, 0.3127, 0.3290

## Achromatomaly

22.5660, 0.2587, 0.2505

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 23.9638, 0.2005, 0.1576 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(102, 122, 255)` looks like.

```
.text, #text, p{  
  color:rgb(102, 122, 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(102, 122, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 122, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 23.9638, 0.2005, 0.1576 is called "border". The border property can be set on classes, ids or directly on the HTML element.

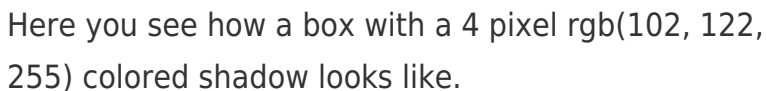
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(102, 122, 255) }
```

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

```
.border{ border-color:rgb(102, 122, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(102, 122, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(102, 122, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(102, 122, 255); box-shadow:4px 4px 4px 4px rgb(102, 122, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 23.9638, 0.2005, 0.1576 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 122, 255) }
```

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

```
.background{ background-color: rgb(102,  
122, 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](#).

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