

# Converting Colors

$Y_{xy}(7.8307, 0.1611, 0.0998)$

Have a look what the booklet for  
Yxy(7.8307, 0.1611, 0.0998)  
contains.

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# Color

**$Y_{xy}(7.8049, 0.1610, 0.0996)$**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	003ECC
RGB	0, 62, 204
RGB Percent	0%, 24%, 80%
CMY	1.0000, 0.7568, 0.2002
CMYK	1.00, 0.70, 0.00, 0.20
HSL	222°, 100%, 40%
HSV	222°, 100%, 80%
XYZ	12.6164, 7.8049, 57.9412
YIQ	59.6500, -82.5340, 31.0180

# Conversions

## Conversions Part 2

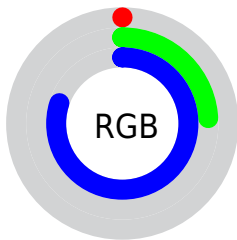
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 48, 204
Decimal	16076
CIELab	33.57, 41.38, -76.60
CIELCh	34, 87.062, 298.377
Yxy	7.8049, 0.1610, 0.0996
Android (android.graphics.Color)	4278206156 (0xFF003ECC)
YUV	59.6500, 71.1645, -52.3130
Hunter-Lab	27.9373, 31.7197, -103.4100

# Details

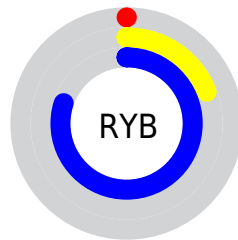
The Yxy color **7.8049, 0.1610, 0.0996** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark washed blue. A complement of this color would be **32.1572, 0.4860, 0.4523**, and the grayscale version is **4.3778, 0.3127, 0.3290**.

A 20% lighter version of the original color is **21.1966, 0.1974, 0.1437**, and **2.6744, 0.1537, 0.0732** is the 20% darker color. If you saturate the color by 10%, you get **7.8056, 0.1610, 0.0996**, and if you desaturate by 10%, it is **9.7095, 0.1687, 0.1188**.

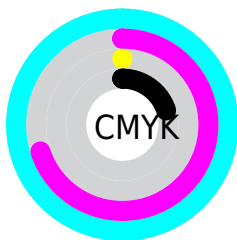
# Distribution



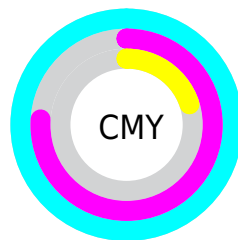
- Red (0%)
- Green (24%)
- Blue (80%)



- Red (0%)
- Yellow (19%)
- Blue (80%)



- Cyan (100%)
- Magenta (70%)
- Yellow (0%)
- Black (20%)




- Cyan (100%)
- Magenta (76%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 7.8049, 0.1610, 0.0996 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 7.8049, 0.1610, 0.0996 by changing the saturation by 10% instead.




 7.8049, 0.1610,  
0.0996


 7.8049, 0.1610,  
0.0996


174.1936, 0.2493,  
0.2148

 3.9704, 0.1378,  
0.0755


 21.5751, 0.1948,  
0.1391


 1.6570, 0.1090,  
0.0493

 32.2795, 0.2071,  
0.1548


 0.3956, 0.0749,  
0.0196

 46.0427, 0.2173,  
0.1685

 0.0000, 0.0295,  
0.0000

 63.2490, 0.2259,  
0.1803

 0.0000, 0.0000,  
0.0000

 84.2829, 0.2331,  
0.1906

 109.5287, 0.2393,

0.1997

139.3708, 0.2446,  
0.2077

■ 7.8049, 0.1610,  
0.0996

■ 7.8049, 0.1610,  
0.0996

■ 7.8056, 0.1610,  
0.0996

■ 9.7095, 0.1687,  
0.1188

■ 12.2067, 0.1794,  
0.1414

■ 15.3785, 0.1932,  
0.1665

■ 19.2784, 0.2093,  
0.1930

■ 23.9538, 0.2269,  
0.2195

■ 29.4474, 0.2451,  
0.2452

■ 35.7987, 0.2632,  
0.2693

■ 43.0443, 0.2807,  
0.2914

■ 51.2187, 0.2973,  
0.3113

# Harmonies

## Analogous

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



7.8049, 0.0845, 0.0920



7.8049, 0.1610, 0.0996



7.8049, 0.3202, 0.1379

# Triad

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



7.8049, 0.1610, 0.0996



7.8049, 0.6295, 0.3705



7.8049, 0.0902, 0.4555

# Complementary

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



7.8049, 0.1610, 0.0996



32.1572, 0.4860, 0.4523

# 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.



7.8049, 0.1926, 0.7276



7.8049, 0.1610, 0.0996



7.8049, 0.4959, 0.5041

# Square

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



7.8049, 0.1610, 0.0996



7.8049, 0.6746, 0.2831



7.8049, 0.3326, 0.6674



7.8049, 0.0522, 0.2079



# Rectangle

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



7.8049, 0.1610, 0.0996



7.8049, 0.4725, 0.1815



7.8049, 0.3326, 0.6674



7.8049, 0.1177, 0.5705

# Sweetspot

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



7.8056, 0.1610, 0.0996



58.8748, 0.2625, 0.2683



45.0404, 0.2546, 0.4365



11.6067, 0.2548, 0.2582



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.



7.8056, 0.1610, 0.0996



12.6047, 0.1604, 0.0975



4.7582, 0.1581, 0.0644



11.3911, 0.2983, 0.3124



5.0601, 0.1617, 0.1020



0.3957, 0.1728, 0.1422



# Inverse Universe

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



13.1794, 0.5765, 0.2949



21.8036, 0.5797, 0.2967



51.3337, 0.3871, 0.5309



11.2689, 0.3243, 0.3220



8.3138, 0.5728, 0.2929



0.4425, 0.5162, 0.2617



# Previews

## White Background



This preview shows how the Yxy color 7.8049, 0.1610, 0.0996 looks on a white 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 ✓ Pass



# Black Background



This preview shows how the Yxy color 7.8049, 0.1610, 0.0996 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 7.8049, 0.1610, 0.0996**

## **Background**



This preview shows how black text looks on a background with the Yxy color 7.8049, 0.1610, 0.0996.



This preview shows how white text looks on a background with the Yxy color 7.8049, 0.1610, 0.0996.

# 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

7.8049, 0.1610, 0.0996

### Protanopia

7.7069, 0.1754, 0.1514

### Deuteranopia

7.6910, 0.1869, 0.1927



## Tritanopia

7.7522, 0.2212, 0.3163

# Trichromacy



## Original Color

7.8049, 0.1610, 0.0996

## Protanomaly

7.6411, 0.1689, 0.1279

## Deuteranomaly

7.4708, 0.1740, 0.1464

## Tritanomaly

7.2854, 0.1873, 0.1941

# Monochromacy



## Original Color

7.8049, 0.1610, 0.0996

## Achromatopsia

4.5186, 0.3127, 0.3290

## Achromatomaly

4.9194, 0.2050, 0.1870

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 7.8049, 0.1610, 0.0996 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(0, 62, 204)` looks like.

```
.text, #text, p{  
    color:rgb(0, 62, 204)  
}
```

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(0, 62, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 62, 204) }
```

## Border

The CSS property to change the border of an element to Yxy 7.8049, 0.1610, 0.0996 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(0, 62, 204) }
```

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

```
.border{ border-color:rgb(0, 62, 204) }
```

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

Here you see how a box with a 4 pixel rgb(0, 62, 204) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 62, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 62, 204);  
box-shadow:4px 4px 4px 4px rgb(0, 62, 204)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 7.8049, 0.1610, 0.0996 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 62, 204) }
```

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

```
.background{ background-color: rgb(0, 62,  
204) }
```

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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