

# Converting Colors

$Y_{xy}(15.8055, 0.6017, 0.3604)$

Have a look what the booklet for  
Yxy(15.8055, 0.6017, 0.3604)  
contains.

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**Color**

**Yxy(15.7636, 0.6022, 0.3601)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CC3900
RGB	204, 57, 0
RGB Percent	80%, 22%, 0%
CMY	0.2001, 0.7763, 1.0000
CMYK	0.00, 0.72, 1.00, 0.20
HSL	17°, 100%, 40%
HSV	17°, 100%, 80%
XYZ	26.3617, 15.7636, 1.6503
YIQ	94.4550, 105.9090, 13.4370

# Conversions

## Conversions Part 2

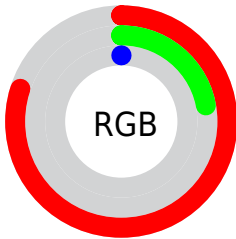
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	204, 79, 0
Decimal	13383936
CIE <sub>Lab</sub>	46.66, 55.97, 58.54
CIE <sub>LCh</sub>	47, 80.997, 46.285
Yxy	15.7636, 0.6022, 0.3601
Android (android.graphics.Color)	4291574016 (0xFFCC3900)
YUV	94.4550, -46.5663, 96.0710
Hunter-Lab	39.7034, 49.0368, 25.3279

# Details

The Yxy color **15.7636, 0.6022, 0.3601** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **25.2117, 0.1986, 0.2348**, and the grayscale version is **11.4045, 0.3127, 0.3290**.

A 20% lighter version of the original color is **33.3657, 0.5378, 0.3747**, and **5.5754, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **15.7648, 0.6021, 0.3601**, and if you desaturate by 10%, it is **17.4868, 0.5762, 0.3687**.

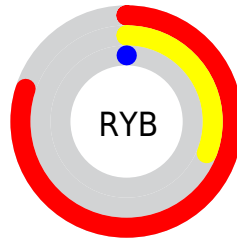
# Distribution



Red (80%)

Green (22%)

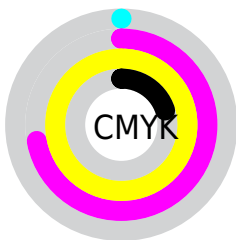
Blue (0%)



Red (80%)

Yellow (31%)

Blue (0%)

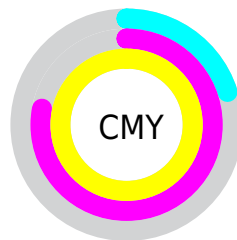


Cyan (0%)

Magenta (72%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (78%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 15.7636, 0.6022, 0.3601 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 15.7636, 0.6022, 0.3601 by changing the saturation by 10% instead.





 15.7636, 0.6022,  
0.3601


 15.7636, 0.6022,  
0.3601


 227.9427, 0.4454,  
0.3668


 9.3570, 0.6402,  
0.3477


 36.1873, 0.5463,  
0.3710


 4.9748, 0.6784,  
0.3216

 50.9732, 0.5245,  
0.3724

 2.2325, 0.7218,  
0.2782

 69.3211, 0.5060,  
0.3724

 0.7376, 0.7890,  
0.2110

 91.6152, 0.4902,  
0.3718

 0.0000, 1.0000,  
0.0000


 118.2401, 0.4766,  
0.3707


 0.0000, 0.0000,  
0.0000


 149.5800, 0.4648,


0.3695


 186.0194, 0.4545,  
0.3682

 15.7636, 0.6022,  
0.3601


 15.7636, 0.6022,  
0.3601


 15.7648, 0.6021,  
0.3601

 17.4868, 0.5762,  
0.3687

 19.7173, 0.5433,  
0.3738

 22.5047, 0.5060,  
0.3745

 25.8862, 0.4682,  
0.3714

 29.8955, 0.4325,  
0.3658

■ 34.5634, 0.4006,  
0.3588

■ 39.9189, 0.3729,  
0.3511

■ 45.9888, 0.3493,  
0.3434

■ 52.7988, 0.3294,  
0.3360

# Harmonies

## Analogous

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



15.7636, 0.5692, 0.2804



15.7636, 0.6022, 0.3601



15.7636, 0.5368, 0.4596

# Triad

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



15.7636, 0.6022, 0.3601



15.7636, 0.1740, 0.5145



15.7636, 0.1563, 0.1291

# Complementary

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



15.7636, 0.6022, 0.3601



25.2117, 0.1986, 0.2348

# 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.



15.7636, 0.1032, 0.1354



15.7636, 0.6022, 0.3601



15.7636, 0.1049, 0.3055

# Square

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



15.7636, 0.6022, 0.3601



15.7636, 0.2893, 0.6335



15.7636, 0.0867, 0.1830



15.7636, 0.2625, 0.1533



# Rectangle

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



15.7636, 0.6022, 0.3601



15.7636, 0.4623, 0.5377



15.7636, 0.0867, 0.1830



15.7636, 0.1337, 0.1276

# Sweetspot

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



15.7648, 0.6021, 0.3601



65.7515, 0.3739, 0.3514



15.0241, 0.4029, 0.1993



13.2363, 0.3853, 0.3547



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.



15.7648, 0.6021, 0.3601



25.8042, 0.6043, 0.3584



36.7429, 0.4680, 0.4666



11.7158, 0.3283, 0.3355



10.0608, 0.5997, 0.3621



0.6492, 0.5603, 0.3933



# Inverse Universe

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



25.2117, 0.1986, 0.2348



41.3782, 0.1982, 0.2334



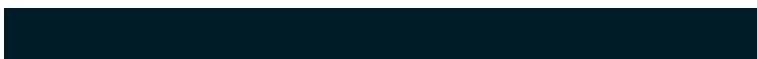
6.4400, 0.1569, 0.0846



12.1761, 0.2983, 0.3224



16.0349, 0.1990, 0.2362



0.9511, 0.2046, 0.2565



# Previews

## White Background



This preview shows how the Yxy color 15.7636, 0.6022, 0.3601 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 × Fail



# Black Background



This preview shows how the Yxy color 15.7636, 0.6022, 0.3601 looks on a black 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

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

**Yxy 15.7636, 0.6022, 0.3601**

## Background



This preview shows how black text looks on a background with the Yxy color 15.7636, 0.6022, 0.3601.



This preview shows how white text looks on a background with the Yxy color 15.7636, 0.6022, 0.3601.

# 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

15.7636, 0.6022, 0.3601

### Protanopia

16.0102, 0.4293, 0.4771

### Deuteranopia

15.9708, 0.4699, 0.4651



## Tritanopia

15.8012, 0.5634, 0.3280

# Trichromacy



## Original Color

15.7636, 0.6022, 0.3601

## Protanomaly

14.5588, 0.5048, 0.4263

## Deuteranomaly

14.8720, 0.5288, 0.4183

## Tritanomaly

15.7388, 0.5857, 0.3440

# Monochromacy



## Original Color

15.7636, 0.6022, 0.3601

## Achromatopsia

11.1932, 0.3127, 0.3290

## Achromatomaly

11.2794, 0.4440, 0.3686

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 15.7636, 0.6022, 0.3601 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(204, 57, 0)` looks like.

```
.text, #text, p{  
    color:rgb(204, 57, 0)  
}
```

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(204, 57, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 57, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 15.7636, 0.6022, 0.3601 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(204, 57, 0) }
```

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

```
.border{ border-color:rgb(204, 57, 0) }
```

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

Here you see how a box with a 4 pixel rgb(204, 57, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 57, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 57, 0);  
box-shadow:4px 4px 4px 4px rgb(204, 57, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 15.7636, 0.6022, 0.3601 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 57, 0) }
```

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

```
.background{ background-color: rgb(204, 57,  
0) }
```

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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