

# Converting Colors

$Y_{xy}(19.7958, 0.6023, 0.3599)$

Have a look what the booklet for  
Yxy(19.7958, 0.6023, 0.3599)  
contains.

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# Color

**Yxy(19.8355, 0.6024, 0.3599)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E24000
RGB	226, 64, 0
RGB Percent	89%, 25%, 0%
CMY	0.1137, 0.7491, 1.0000
CMYK	0.00, 0.72, 1.00, 0.11
HSL	17°, 100%, 44%
HSV	17°, 100%, 89%
XYZ	33.2006, 19.8355, 2.0778
YIQ	105.1420, 117.0960, 14.4400

# Conversions

## Conversions Part 2

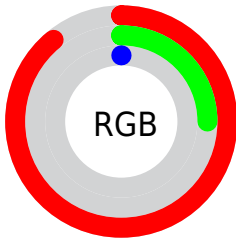
Format	Color
R <sub>Y</sub> B	226, 89, 0
Decimal	14827520
CIE Lab	51.65, 60.53, 63.19
CIE LCh	52, 87.509, 46.231
Yxy	19.8355, 0.6024, 0.3599
Android (android.graphics.Color)	4293017600 (0xFFE24000)
YUV	105.1420, -51.8350, 105.9925
Hunter-Lab	44.5371, 55.1249, 28.4099

# Details

The Yxy color **19.8355, 0.6024, 0.3599** 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 **31.3403, 0.1980, 0.2328**, and the grayscale version is **14.2861, 0.3127, 0.3290**.

A 20% lighter version of the original color is **35.2610, 0.5277, 0.3805**, and **7.5771, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **19.8368, 0.6024, 0.3599**, and if you desaturate by 10%, it is **21.9969, 0.5770, 0.3689**.

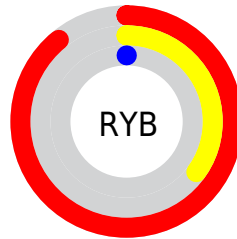
# Distribution



Red (89%)

Green (25%)

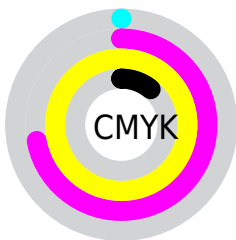
Blue (0%)



Red (89%)

Yellow (35%)

Blue (0%)

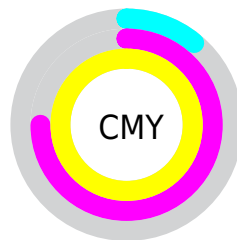


Cyan (0%)

Magenta (72%)

Yellow (100%)

Black (11%)



Cyan (11%)

Magenta (75%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.8355, 0.6024, 0.3599 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 19.8355, 0.6024, 0.3599 by changing the saturation by 10% instead.





 19.8355, 0.6024,  
0.3599


 19.8355, 0.6024,  
0.3599


 251.0232, 0.4514,  
0.3676


 12.2755, 0.6354,  
0.3476


 43.1412, 0.5500,  
0.3705


 6.9316, 0.6735,  
0.3265


 59.6557, 0.5292,  
0.3721

 3.4194, 0.7110,  
0.2890

 79.9239, 0.5113,  
0.3724

 1.3544, 0.7652,  
0.2348

 104.3301, 0.4959,  
0.3720

 0.1827, 0.9139,  
0.0861

 133.2588, 0.4825,  
0.3711

 0.0000, 1.0000,  
0.0000


 167.0942, 0.4708,


 0.0000, 0.0000,


0.3701


0.0000

 206.2209, 0.4605,  
0.3689

 19.8355, 0.6024,  
0.3599

 19.8355, 0.6024,  
0.3599


 19.8368, 0.6024,  
0.3599

 21.9969, 0.5770,  
0.3689

 24.8001, 0.5443,  
0.3743

 28.3067, 0.5071,  
0.3751

 32.5640, 0.4692,  
0.3721

 37.6149, 0.4333,  
0.3665

■ 43.4988, 0.4012,  
0.3594

■ 50.2521, 0.3733,  
0.3516

■ 57.9092, 0.3495,  
0.3437

■ 66.5026, 0.3295,  
0.3361

# Harmonies

## Analogous

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



19.8355, 0.5692, 0.2802



19.8355, 0.6024, 0.3599



19.8355, 0.5354, 0.4580

# Triad

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



19.8355, 0.6024, 0.3599



19.8355, 0.1741, 0.5150



19.8355, 0.1561, 0.1290

# Complementary

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



19.8355, 0.6024, 0.3599



31.3403, 0.1980, 0.2328

# 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.



19.8355, 0.1030, 0.1354



19.8355, 0.6024, 0.3599



19.8355, 0.1048, 0.3058

# Square

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



19.8355, 0.6024, 0.3599



19.8355, 0.2895, 0.6337



19.8355, 0.0866, 0.1830



19.8355, 0.2622, 0.1532



# Rectangle

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



19.8355, 0.6024, 0.3599



19.8355, 0.4607, 0.5354



19.8355, 0.0866, 0.1830



19.8355, 0.1335, 0.1275

# Sweetspot

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



19.8368, 0.6024, 0.3599



65.8769, 0.3738, 0.3517



18.9147, 0.4035, 0.1997



13.2654, 0.3852, 0.3551



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.



19.8368, 0.6024, 0.3599



25.9204, 0.6035, 0.3590



46.1645, 0.4684, 0.4663



14.3293, 0.3285, 0.3357



11.4898, 0.5996, 0.3621



0.9459, 0.5691, 0.3863

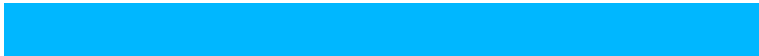


# Inverse Universe

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



31.3403, 0.1980, 0.2328



41.0053, 0.1978, 0.2322



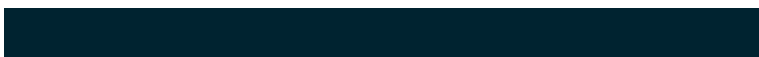
8.0140, 0.1566, 0.0837



14.8821, 0.2982, 0.3222



18.0884, 0.1985, 0.2345



1.4035, 0.2030, 0.2508



# Previews

## White Background



This preview shows how the Yxy color 19.8355, 0.6024, 0.3599 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 19.8355, 0.6024, 0.3599 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 19.8355, 0.6024, 0.3599**

## **Background**



This preview shows how black text looks on a background with the Yxy color 19.8355, 0.6024, 0.3599.



This preview shows how white text looks on a background with the Yxy color 19.8355, 0.6024, 0.3599.

# 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

19.8355, 0.6024, 0.3599

### Protanopia

19.9745, 0.4310, 0.4775

### Deuteranopia

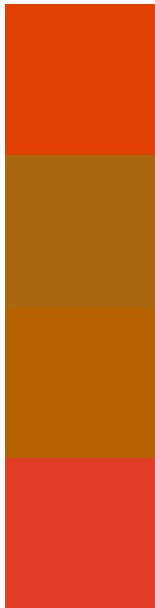
20.0248, 0.4693, 0.4655



## Tritanopia

19.9104, 0.5631, 0.3282

# Trichromacy



## Original Color

19.8355, 0.6024, 0.3599

## Protanomaly

18.1981, 0.5068, 0.4262

## Deuteranomaly

18.5591, 0.5284, 0.4187

## Tritanomaly

19.8149, 0.5864, 0.3446

# Monochromacy



## Original Color

19.8355, 0.6024, 0.3599

## Achromatopsia

14.1263, 0.3127, 0.3290

## Achromatomaly

14.1071, 0.4455, 0.3683

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.8355, 0.6024, 0.3599 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(226, 64, 0)` looks like.

```
.text, #text, p{  
    color:rgb(226, 64, 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(226, 64, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 64, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 19.8355, 0.6024, 0.3599 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(226, 64, 0) }
```

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

```
.border{ border-color:rgb(226, 64, 0) }
```

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

Here you see how a box with a 4 pixel rgb(226, 64, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 64, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 64, 0);  
box-shadow:4px 4px 4px 4px rgb(226, 64, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 19.8355, 0.6024, 0.3599 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 64, 0) }
```

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

```
.background{ background-color: rgb(226, 64,  
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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