

# Converting Colors

$Y_{xy}(20.1443, 0.6090, 0.3550)$

Have a look what the booklet for  
Yxy(20.1443, 0.6090, 0.3550)  
contains.

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# Color

**Yxy(20.1169, 0.6088, 0.3548)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E73B00
RGB	231, 59, 0
RGB Percent	91%, 23%, 0%
CMY	0.0941, 0.7686, 1.0000
CMYK	0.00, 0.74, 1.00, 0.09
HSL	15°, 100%, 45%
HSV	15°, 100%, 91%
XYZ	34.5185, 20.1169, 2.0639
YIQ	103.7020, 121.4510, 18.1150

# Conversions

## Conversions Part 2

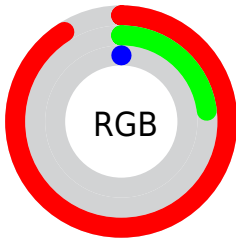
Format	Color
<a href="#">RYB</a>	<a href="#">231, 79, 0</a>
Decimal	<a href="#">15153920</a>
CIELab	<a href="#">51.97, 63.76, 63.86</a>
CIELCh	<a href="#">52, 90.243, 45.046</a>
Yxy	<a href="#">20.1169, 0.6088, 0.3548</a>
Android (android.graphics.Color)	<a href="#">4293344000 (0xFFE73B00)</a>
YUV	<a href="#">103.7020, -51.1251, 111.6403</a>
Hunter-Lab	<a href="#">44.8519, 58.8849, 28.6681</a>

# Details

The Yxy color **20.1169, 0.6088, 0.3548** 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 **35.2710, 0.2008, 0.2427**, and the grayscale version is **13.8771, 0.3127, 0.3290**.

A 20% lighter version of the original color is **34.5431, 0.5306, 0.3777**, and **8.1070, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **20.1173, 0.6088, 0.3548**, and if you desaturate by 10%, it is **22.2494, 0.5836, 0.3636**.

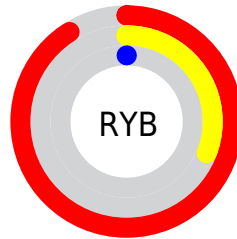
# Distribution



Red (91%)

Green (23%)

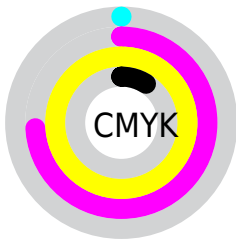
Blue (0%)



Red (91%)

Yellow (31%)

Blue (0%)

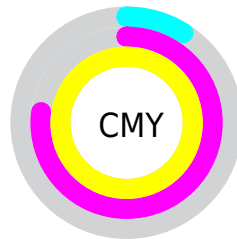


Cyan (0%)

Magenta (74%)

Yellow (100%)

Black (9%)



Cyan (9%)

Magenta (77%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 20.1169, 0.6088, 0.3548 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 20.1169, 0.6088, 0.3548 by changing the saturation by 10% instead.





 20.1169, 0.6088,  
0.3548

 20.1169, 0.6088,  
0.3548


 252.5473, 0.4551,  
0.3661


 12.4800, 0.6421,  
0.3416


 43.6131, 0.5557,  
0.3668


 7.0715, 0.6804,  
0.3196


 60.2412, 0.5346,  
0.3688


 3.5069, 0.7183,  
0.2817


 80.6352, 0.5163,  
0.3696

 1.4017, 0.7726,  
0.2274

 105.1795, 0.5006,  
0.3695

 0.2180, 0.9076,  
0.0924

 134.2584, 0.4869,  
0.3690


 0.0000, 1.0000,  
0.0000


 168.2565, 0.4749,


 0.0000, 0.0000,


0.3681


0.0000

 207.5579, 0.4644,  
0.3671


 20.1169, 0.6088,  
0.3548


 20.1169, 0.6088,  
0.3548

 20.1173, 0.6088,  
0.3548

 22.2494, 0.5836,  
0.3636

 25.0890, 0.5503,  
0.3691

 28.7067, 0.5119,  
0.3703

 33.1577, 0.4726,  
0.3679

 38.4922, 0.4356,  
0.3629

■ 44.7557, 0.4026,  
0.3565

■ 51.9910, 0.3740,  
0.3494

■ 60.2376, 0.3499,  
0.3423

■ 69.5331, 0.3296,  
0.3354

# Harmonies

## Analogous

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



20.1169, 0.5713, 0.2752



20.1169, 0.6088, 0.3548



20.1169, 0.5425, 0.4537

# Triad

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



20.1169, 0.6088, 0.3548



20.1169, 0.1743, 0.5292



20.1169, 0.1502, 0.1255

# Complementary

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



20.1169, 0.6088, 0.3548



35.2710, 0.2008, 0.2427

# 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.



20.1169, 0.0986, 0.1330



20.1169, 0.6088, 0.3548



20.1169, 0.1026, 0.3115

# Square

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



20.1169, 0.6088, 0.3548



20.1169, 0.2918, 0.6420



20.1169, 0.0832, 0.1828



20.1169, 0.2553, 0.1487



# Rectangle

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



20.1169, 0.6088, 0.3548



20.1169, 0.4668, 0.5332



20.1169, 0.0832, 0.1828



20.1169, 0.1281, 0.1244

# Sweetspot

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



20.1181, 0.6088, 0.3548



64.9019, 0.3745, 0.3495



20.0155, 0.3976, 0.1964



13.0396, 0.3860, 0.3526



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.



20.1181, 0.6088, 0.3548



25.0568, 0.6097, 0.3541



46.9717, 0.4726, 0.4630



14.9634, 0.3286, 0.3351



11.4470, 0.6061, 0.3570



0.9924, 0.5775, 0.3797



# Inverse Universe

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



35.2710, 0.2008, 0.2427



43.9860, 0.2006, 0.2422



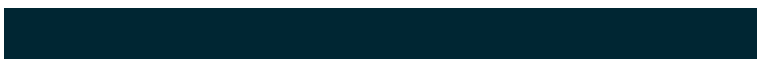
8.7711, 0.1574, 0.0867



15.6803, 0.2981, 0.3229



19.9826, 0.2012, 0.2442



1.6234, 0.2050, 0.2581



# Previews

## White Background



This preview shows how the Yxy color 20.1169, 0.6088, 0.3548 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 20.1169, 0.6088, 0.3548 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 20.1169, 0.6088, 0.3548**

## Background



This preview shows how black text looks on a background with the Yxy color 20.1169, 0.6088, 0.3548.



This preview shows how white text looks on a background with the Yxy color 20.1169, 0.6088, 0.3548.

# 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

20.1169, 0.6088, 0.3548

### Protanopia

20.3173, 0.4306, 0.4771

### Deuteranopia

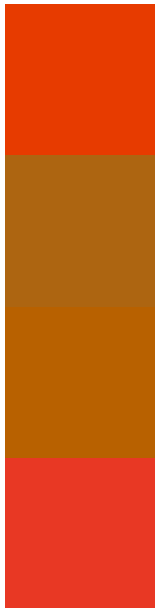
20.1250, 0.4705, 0.4646



## Tritanopia

20.1836, 0.5756, 0.3284

# Trichromacy



**Original Color**

20.1169, 0.6088, 0.3548

**Protanomaly**

18.2321, 0.5100, 0.4229

**Deuteranomaly**

18.7397, 0.5327, 0.4152

**Tritanomaly**

20.1115, 0.5951, 0.3419

# Monochromacy



**Original Color**

20.1169, 0.6088, 0.3548

**Achromatopsia**

13.8432, 0.3127, 0.3290

**Achromatomaly**

13.8568, 0.4506, 0.3662

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.1169, 0.6088, 0.3548 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(231, 59, 0)` looks like.

```
.text, #text, p{  
    color:rgb(231, 59, 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(231, 59, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 59, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 20.1169, 0.6088, 0.3548 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(231, 59, 0) }
```

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

```
.border{ border-color:rgb(231, 59, 0) }
```

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

Here you see how a box with a 4 pixel rgb(231, 59, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 59, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 59, 0);  
box-shadow:4px 4px 4px 4px rgb(231, 59, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 20.1169, 0.6088, 0.3548 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 59, 0) }
```

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

```
.background{ background-color: rgb(231, 59,  
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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