

# Converting Colors

$Y_{xy}(20.1354, 0.6059, 0.3570)$

Have a look what the booklet for  
Yxy(20.1354, 0.6059, 0.3570)  
contains.

<b>Yxy(20.2682, 0.6057, 0.3573)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

**Color**

**Yxy(20.2682, 0.6057, 0.3573)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E63E00
RGB	230, 62, 0
RGB Percent	90%, 24%, 0%
CMY	0.0980, 0.7569, 1.0000
CMYK	0.00, 0.73, 1.00, 0.10
HSL	16°, 100%, 45%
HSV	16°, 100%, 90%
XYZ	34.3589, 20.2682, 2.0989
YIQ	105.1640, 120.0300, 16.3340

# Conversions

## Conversions Part 2

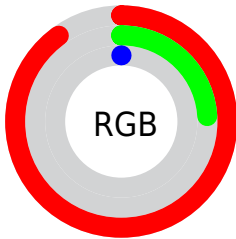
Format	Color
<a href="#">RYB</a>	230, 85, 0
Decimal	15089152
CIELab	52.14, 62.48, 63.86
CIELCh	52, 89.337, 45.625
Yxy	20.2682, 0.6057, 0.3573
Android (android.graphics.Color)	4293279232 (0xFFE63E00)
YUV	105.1640, -51.8459, 109.4812
Hunter-Lab	45.0202, 57.4439, 28.7500

# Details

The Yxy color **20.2682, 0.6057, 0.3573** 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 **33.7278, 0.1994, 0.2377**, and the grayscale version is **14.2918, 0.3127, 0.3290**.

A 20% lighter version of the original color is **35.0192, 0.5287, 0.3796**, and **7.9993, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **20.2696, 0.6057, 0.3573**, and if you desaturate by 10%, it is **22.4494, 0.5804, 0.3663**.

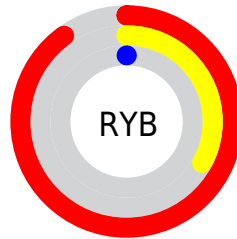
# Distribution



Red (90%)

Green (24%)

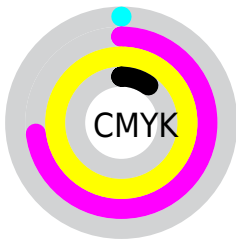
Blue (0%)



Red (90%)

Yellow (33%)

Blue (0%)

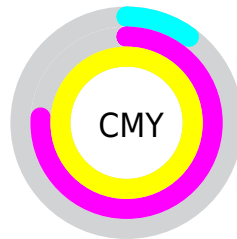


Cyan (0%)

Magenta (73%)

Yellow (100%)

Black (10%)



Cyan (10%)

Magenta (76%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 20.2682, 0.6057, 0.3573 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 20.2682, 0.6057, 0.3573 by changing the saturation by 10% instead.





 20.2682, 0.6057,  
0.3573


 20.2682, 0.6057,  
0.3573


 253.3634, 0.4537,  
0.3669


 12.5902, 0.6386,  
0.3446


 43.8664, 0.5532,  
0.3686

 7.1469, 0.6767,  
0.3233


 60.5553, 0.5322,  
0.3704


 3.5542, 0.7141,  
0.2859

 81.0166, 0.5142,  
0.3710

 1.4274, 0.7678,  
0.2322

 105.6348, 0.4987,  
0.3707

 0.2368, 0.8994,  
0.1006

 134.7941, 0.4851,  
0.3701

 0.0000, 1.0000,  
0.0000


 168.8791, 0.4733,


 0.0000, 0.0000,


0.3691


0.0000


 208.2740, 0.4629,  
0.3681


 20.2682, 0.6057,  
0.3573


 20.2682, 0.6057,  
0.3573


 20.2696, 0.6057,  
0.3573

 22.4494, 0.5804,  
0.3663

 25.3148, 0.5474,  
0.3717

 28.9314, 0.5096,  
0.3728

 33.3515, 0.4710,  
0.3701

 38.6219, 0.4345,  
0.3648

■ 44.7857, 0.4019,  
0.3580

■ 51.8830, 0.3737,  
0.3505

■ 59.9514, 0.3497,  
0.3430

■ 69.0261, 0.3296,  
0.3358

# Harmonies

## Analogous

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



20.2682, 0.5704, 0.2776



20.2682, 0.6057, 0.3573



20.2682, 0.5389, 0.4558

# Triad

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



20.2682, 0.6057, 0.3573



20.2682, 0.1742, 0.5223



20.2682, 0.1531, 0.1272

# Complementary

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



20.2682, 0.6057, 0.3573



33.7278, 0.1994, 0.2377

# 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.



20.2682, 0.1008, 0.1342



20.2682, 0.6057, 0.3573



20.2682, 0.1037, 0.3086

# Square

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



20.2682, 0.6057, 0.3573



20.2682, 0.2907, 0.6380



20.2682, 0.0848, 0.1829



20.2682, 0.2587, 0.1509



# Rectangle

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



20.2682, 0.6057, 0.3573



20.2682, 0.4638, 0.5344



20.2682, 0.0848, 0.1829



20.2682, 0.1307, 0.1259

# Sweetspot

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



20.2696, 0.6057, 0.3573



65.3954, 0.3741, 0.3506



19.6778, 0.4036, 0.1997



13.1538, 0.3856, 0.3538



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.



20.2696, 0.6057, 0.3573



25.4825, 0.6066, 0.3566



48.0112, 0.4684, 0.4663



14.9967, 0.3286, 0.3354



11.6469, 0.6029, 0.3595



1.0111, 0.5742, 0.3823

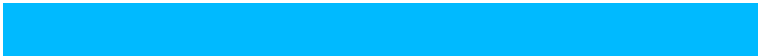


# Inverse Universe

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



33.7278, 0.1994, 0.2377



42.4538, 0.1992, 0.2371



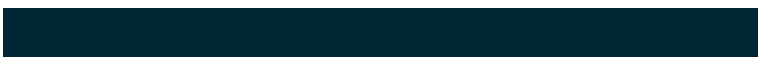
8.3217, 0.1566, 0.0836



15.6448, 0.2981, 0.3225



19.3044, 0.1998, 0.2393



1.5781, 0.2039, 0.2539



# Previews

## White Background



This preview shows how the Yxy color 20.2682, 0.6057, 0.3573 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 20.2682, 0.6057, 0.3573 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 20.2682, 0.6057, 0.3573**

## Background



This preview shows how black text looks on a background with the Yxy color 20.2682, 0.6057, 0.3573.



This preview shows how white text looks on a background with the Yxy color 20.2682, 0.6057, 0.3573.

# 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

20.2682, 0.6057, 0.3573

### Protanopia

20.4045, 0.4318, 0.4762

### Deuteranopia

20.4628, 0.4702, 0.4649



## Tritanopia

20.3413, 0.5694, 0.3283

# Trichromacy



## Original Color

20.2682, 0.6057, 0.3573

## Protanomaly

18.4274, 0.5085, 0.4242

## Deuteranomaly

18.9257, 0.5311, 0.4165

## Tritanomaly

20.2568, 0.5907, 0.3432

# Monochromacy



## Original Color

20.2682, 0.6057, 0.3573

## Achromatopsia

14.1263, 0.3127, 0.3290

## Achromatomaly

14.0340, 0.4480, 0.3663

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.2682, 0.6057, 0.3573 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(230, 62, 0)` looks like.

```
.text, #text, p{  
    color:rgb(230, 62, 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(230, 62, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 62, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 20.2682, 0.6057, 0.3573 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(230, 62, 0) }
```

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

```
.border{ border-color:rgb(230, 62, 0) }
```

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

Here you see how a box with a 4 pixel rgb(230, 62, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 62, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 62, 0);  
box-shadow:4px 4px 4px 4px rgb(230, 62, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 20.2682, 0.6057, 0.3573 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 62, 0) }
```

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

```
.background{ background-color: rgb(230, 62,  
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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