

# Converting Colors

$Y_{xy}(19.7651, 0.6230, 0.3435)$

Have a look what the booklet for  
Yxy(19.7651, 0.6230, 0.3435)  
contains.

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**Color**

**Yxy(19.7323, 0.6230, 0.3435)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	ED2B00
RGB	237, 43, 0
RGB Percent	93%, 17%, 0%
CMY	0.0706, 0.8313, 0.9997
CMYK	0.00, 0.82, 1.00, 0.07
HSL	11°, 100%, 46%
HSV	11°, 100%, 93%
XYZ	35.7881, 19.7323, 1.9244
YIQ	96.1040, 129.4270, 27.7550

# Conversions

## Conversions Part 2

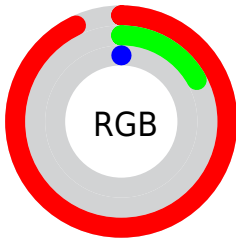
Format	Color
<a href="#">RYB</a>	<a href="#">237, 53, 0</a>
Decimal	<a href="#">15543040</a>
CIELab	<a href="#">51.53, 69.96, 64.34</a>
CIElCh	<a href="#">52, 95.048, 42.603</a>
Yxy	<a href="#">19.7323, 0.6230, 0.3435</a>
Android (android.graphics.Color)	<a href="#">4293733120 (0xFFED2B00)</a>
YUV	<a href="#">96.1040, -47.3793, 123.5658</a>
Hunter-Lab	<a href="#">44.4211, 66.0729, 28.5262</a>

# Details

The Yxy color **19.7323, 0.6230, 0.3435** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark washed red. A complement of this color would be **44.7142, 0.2081, 0.2690**, and the grayscale version is **11.8231, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.3009, 0.5412, 0.3689**, and **8.6579, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **19.7293, 0.6230, 0.3435**, and if you desaturate by 10%, it is **21.5608, 0.5992, 0.3508**.

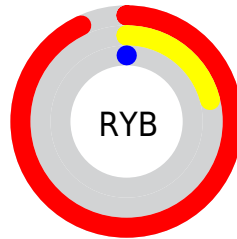
# Distribution



Red (93%)

Green (17%)

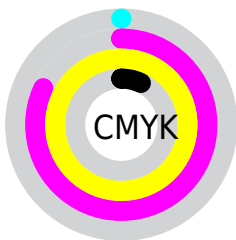
Blue (0%)



Red (93%)

Yellow (21%)

Blue (0%)

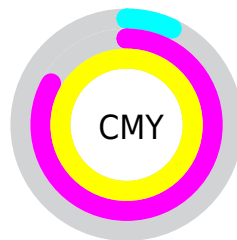


Cyan (0%)

Magenta (82%)

Yellow (100%)

Black (7%)



Cyan (7%)

Magenta (83%)


Yellow (100%)

# Brightness & Saturation Gradients


These gradients show how the Yxy color 19.7323, 0.6230, 0.3435 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 19.7323, 0.6230, 0.3435 by changing the saturation by 10% instead.





 19.7323, 0.6230,  
0.3435


 19.7323, 0.6230,  
0.3435


 250.4622, 0.4623,  
0.3624


 12.2006, 0.6579,  
0.3284


 42.9679, 0.5677,  
0.3586


 6.8804, 0.6965,  
0.3035


 59.4406, 0.5456,  
0.3617


 3.3874, 0.7364,  
0.2636

 79.6624, 0.5265,  
0.3633

 1.3372, 0.7924,  
0.2076

 104.0178, 0.5100,  
0.3640

 0.1697, 0.9325,  
0.0675

 132.8910, 0.4956,  
0.3640


 0.0000, 1.0000,  
0.0000

 166.6666, 0.4831,

 0.0000, 0.0000,

0.3637

0.0000


 205.7288, 0.4720,  
0.3631


 19.7323, 0.6230,  
0.3435


 19.7323, 0.6230,  
0.3435


 19.7293, 0.6230,  
0.3435

 21.5608, 0.5992,  
0.3508

 24.2220, 0.5649,  
0.3559

 27.8137, 0.5239,  
0.3577

 32.4142, 0.4814,  
0.3565

 38.0929, 0.4414,  
0.3532

■ 44.9132, 0.4060,  
0.3486

■ 52.9333, 0.3758,  
0.3436

■ 62.2077, 0.3506,  
0.3385

■ 72.7872, 0.3298,  
0.3336

# Harmonies

## Analogous

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



19.7323, 0.5760, 0.2643



19.7323, 0.6230, 0.3435



19.7323, 0.5569, 0.4431

# Triad

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



19.7323, 0.6230, 0.3435



19.7323, 0.1742, 0.5617



19.7323, 0.1377, 0.1179

# Complementary

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



19.7323, 0.6230, 0.3435



44.7142, 0.2081, 0.2690

# 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.



19.7323, 0.0892, 0.1277



19.7323, 0.6230, 0.3435



19.7323, 0.0976, 0.3246

# Square

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



19.7323, 0.6230, 0.3435



19.7323, 0.2959, 0.6585



19.7323, 0.0759, 0.1821



19.7323, 0.2404, 0.1389



# Rectangle

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



19.7323, 0.6230, 0.3435



19.7323, 0.4761, 0.5239



19.7323, 0.0759, 0.1821



19.7323, 0.1168, 0.1175

# Sweetspot

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



19.7335, 0.6230, 0.3435



62.3568, 0.3762, 0.3437



22.0596, 0.3689, 0.1806



12.4529, 0.3884, 0.3458



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.



19.7335, 0.6230, 0.3435



23.2325, 0.6236, 0.3431



42.4641, 0.4946, 0.4454



15.4957, 0.3288, 0.3333



10.9080, 0.6207, 0.3453



0.9827, 0.5957, 0.3652

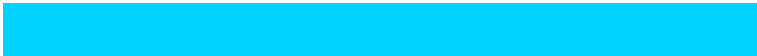


# Inverse Universe

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



44.7142, 0.2081, 0.2690



52.7053, 0.2080, 0.2687



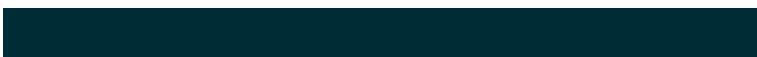
11.7129, 0.1626, 0.1053



16.6303, 0.2981, 0.3246



24.5880, 0.2084, 0.2701



2.0516, 0.2109, 0.2791



# Previews

## White Background



This preview shows how the Yxy color 19.7323, 0.6230, 0.3435 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 19.7323, 0.6230, 0.3435 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 19.7323, 0.6230, 0.3435**

## Background



This preview shows how black text looks on a background with the Yxy color 19.7323, 0.6230, 0.3435.



This preview shows how white text looks on a background with the Yxy color 19.7323, 0.6230, 0.3435.

# 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

19.7323, 0.6230, 0.3435

### Protanopia

19.9930, 0.4290, 0.4745

### Deuteranopia

19.7905, 0.4709, 0.4643



## Tritanopia

19.7369, 0.6049, 0.3309

# Trichromacy



## Original Color

19.7323, 0.6230, 0.3435

## Protanomaly

17.3421, 0.5211, 0.4130

## Deuteranomaly

17.6266, 0.5447, 0.4057

## Tritanomaly

19.7306, 0.6142, 0.3373

# Monochromacy



## Original Color

19.7323, 0.6230, 0.3435

## Achromatopsia

11.6971, 0.3127, 0.3290

## Achromatomaly

11.8477, 0.4669, 0.3562

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.7323, 0.6230, 0.3435 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(237, 43, 0)` looks like.

```
.text, #text, p{  
    color:rgb(237, 43, 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(237, 43, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 43, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 19.7323, 0.6230, 0.3435 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(237, 43, 0) }
```

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

```
.border{ border-color:rgb(237, 43, 0) }
```

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

Here you see how a box with a 4 pixel rgb(237, 43, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 43, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 43, 0);  
box-shadow:4px 4px 4px 4px rgb(237, 43, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 19.7323, 0.6230, 0.3435 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 43, 0) }
```

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

```
.background{ background-color: rgb(237, 43,  
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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