

# Converting Colors

$Y_{xy}(18.9818, 0.6121, 0.3522)$

Have a look what the booklet for  
Yxy(18.9818, 0.6121, 0.3522)  
contains.

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**Color**

**Yxy(18.9692, 0.6123, 0.3520)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E33600
RGB	227, 54, 0
RGB Percent	89%, 21%, 0%
CMY	0.1098, 0.7882, 0.9998
CMYK	0.00, 0.76, 1.00, 0.11
HSL	14°, 100%, 45%
HSV	14°, 100%, 89%
XYZ	32.9967, 18.9692, 1.9239
YIQ	99.5710, 120.4420, 19.8820

# Conversions

## Conversions Part 2

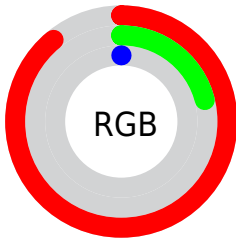
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	227, 71, 0
Decimal	14890496
CIE <sub>Lab</sub>	50.65, 64.12, 62.82
CIE <sub>LCh</sub>	51, 89.768, 44.415
Yxy	18.9692, 0.6123, 0.3520
Android (android.graphics.Color)	4293080576 (0xFFE33600)
YUV	99.5710, -49.0885, 111.7552
Hunter-Lab	43.5536, 59.0146, 27.8686

# Details

The Yxy color **18.9692, 0.6123, 0.3520** 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 **35.4444, 0.2026, 0.2492**, and the grayscale version is **12.7376, 0.3127, 0.3290**.

A 20% lighter version of the original color is **33.6104, 0.5353, 0.3745**, and **7.6814, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **18.9662, 0.6123, 0.3520**, and if you desaturate by 10%, it is **20.9385, 0.5871, 0.3605**.

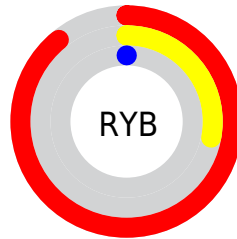
# Distribution



Red (89%)

Green (21%)

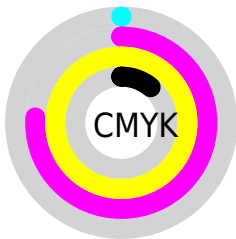
Blue (0%)



Red (89%)

Yellow (28%)

Blue (0%)

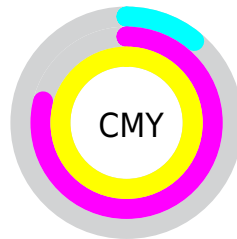


Cyan (0%)

Magenta (76%)

Yellow (100%)

Black (11%)



Cyan (11%)

Magenta (79%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 18.9692, 0.6123, 0.3520 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 18.9692, 0.6123, 0.3520 by changing the saturation by 10% instead.





 18.9692, 0.6123,  
0.3520


 18.9692, 0.6123,  
0.3520


 246.2787, 0.4554,  
0.3650


 11.6480, 0.6470,  
0.3382


 41.6820, 0.5578,  
0.3649


 6.5045, 0.6856,  
0.3144


 57.8425, 0.5362,  
0.3672


 3.1542, 0.7254,  
0.2746

 77.7182, 0.5176,  
0.3681

 1.2128, 0.7824,  
0.2176

 101.6935, 0.5015,  
0.3681

 0.0721, 0.9636,  
0.0364

 130.1528, 0.4876,  
0.3677


 0.0000, 1.0000,  
0.0000


 163.4805, 0.4755,


 0.0000, 0.0000,

0.3669


0.0000


 202.0610, 0.4648,  
0.3660


 18.9692, 0.6123,  
0.3520


 18.9692, 0.6123,  
0.3520

 18.9662, 0.6123,  
0.3520

 20.9385, 0.5871,  
0.3605

 23.6053, 0.5534,  
0.3659

 27.0420, 0.5143,  
0.3673

 31.3052, 0.4743,  
0.3651

 36.4459, 0.4367,  
0.3605

■ 42.5108, 0.4032,  
0.3546

■ 49.5430, 0.3743,  
0.3480

■ 57.5831, 0.3499,  
0.3414

■ 66.6692, 0.3296,  
0.3350

# Harmonies

## Analogous

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



18.9692, 0.5724, 0.2725



18.9692, 0.6123, 0.3520



18.9692, 0.5468, 0.4517

# Triad

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



18.9692, 0.6123, 0.3520



18.9692, 0.1744, 0.5371



18.9692, 0.1471, 0.1236

# Complementary

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



18.9692, 0.6123, 0.3520



35.4444, 0.2026, 0.2492

# 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.



18.9692, 0.0963, 0.1317



18.9692, 0.6123, 0.3520



18.9692, 0.1014, 0.3147

# Square

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



18.9692, 0.6123, 0.3520



18.9692, 0.2930, 0.6463



18.9692, 0.0814, 0.1827



18.9692, 0.2516, 0.1462



# Rectangle

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



18.9692, 0.6123, 0.3520



18.9692, 0.4691, 0.5309



18.9692, 0.0814, 0.1827



18.9692, 0.1252, 0.1227

# Sweetspot

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



18.9704, 0.6123, 0.3520



64.2870, 0.3749, 0.3482



19.3888, 0.3915, 0.1930



12.8974, 0.3866, 0.3510



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.



18.9704, 0.6123, 0.3520



24.5590, 0.6133, 0.3512



43.7763, 0.4767, 0.4597



14.9215, 0.3287, 0.3347



11.2120, 0.6099, 0.3539



0.9699, 0.5815, 0.3764

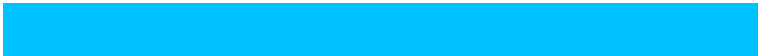


# Inverse Universe

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



35.4444, 0.2026, 0.2492



45.9649, 0.2024, 0.2486



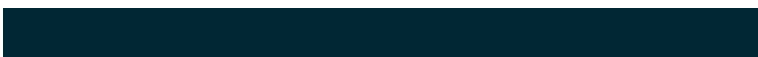
8.8382, 0.1584, 0.0903



15.7250, 0.2981, 0.3233



20.8578, 0.2029, 0.2505



1.6817, 0.2065, 0.2633



# Previews

## White Background



This preview shows how the Yxy color 18.9692, 0.6123, 0.3520 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 18.9692, 0.6123, 0.3520 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 18.9692, 0.6123, 0.3520**

## Background



This preview shows how black text looks on a background with the Yxy color 18.9692, 0.6123, 0.3520.



This preview shows how white text looks on a background with the Yxy color 18.9692, 0.6123, 0.3520.

# 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

18.9692, 0.6123, 0.3520

### Protanopia

19.2279, 0.4292, 0.4771

### Deuteranopia

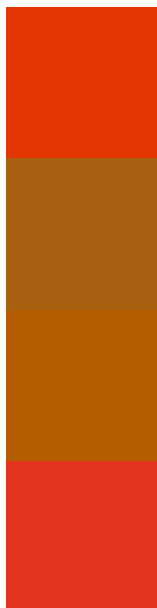
19.0338, 0.4704, 0.4647



## Tritanopia

19.1006, 0.5832, 0.3298

# Trichromacy



## Original Color

18.9692, 0.6123, 0.3520

## Protanomaly

17.0249, 0.5122, 0.4205

## Deuteranomaly

17.5320, 0.5356, 0.4130

## Tritanomaly

19.0542, 0.5999, 0.3414

# Monochromacy



## Original Color

18.9692, 0.6123, 0.3520

## Achromatopsia

12.7438, 0.3127, 0.3290

## Achromatomaly

12.6677, 0.4535, 0.3619

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 18.9692, 0.6123, 0.3520 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(227, 54, 0)` looks like.

```
.text, #text, p{  
    color:rgb(227, 54, 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(227, 54, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 54, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 18.9692, 0.6123, 0.3520 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(227, 54, 0) }
```

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

```
.border{ border-color:rgb(227, 54, 0) }
```

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

Here you see how a box with a 4 pixel rgb(227, 54, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 54, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 54, 0);  
box-shadow:4px 4px 4px 4px rgb(227, 54, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 18.9692, 0.6123, 0.3520 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 54, 0) }
```

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

```
.background{ background-color: rgb(227, 54,  
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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