

# Converting Colors

$Y_{xy}(19.9431, 0.5907, 0.3575)$

Have a look what the booklet for  
Yxy(19.9431, 0.5907, 0.3575)  
contains.

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**Color**

**Yxy(19.9195, 0.5907, 0.3577)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E04316
RGB	224, 67, 22
RGB Percent	88%, 26%, 9%
CMY	0.1215, 0.7373, 0.9135
CMYK	0.00, 0.70, 0.90, 0.12
HSL	13°, 82%, 48%
HSV	13°, 90%, 88%
XYZ	32.8947, 19.9195, 2.8735
YIQ	108.8130, 108.0170, 19.2890

# Conversions

## Conversions Part 2

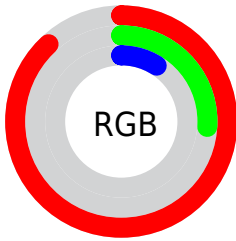
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	224, 80, 22
Decimal	14697238
CIE <sub>Lab</sub>	51.75, 59.04, 57.26
CIE <sub>LCh</sub>	52, 82.244, 44.123
Yxy	19.9195, 0.5907, 0.3577
Android (android.graphics.Color)	4292887318 (0xFFE04316)
YUV	108.8130, -42.7988, 101.0190
Hunter-Lab	44.6313, 53.4558, 27.4246

# Details

The Yxy color **19.9195, 0.5907, 0.3577** 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 **37.8244, 0.2078, 0.2627**, and the grayscale version is **15.3399, 0.3127, 0.3290**.

A 20% lighter version of the original color is **36.1563, 0.5147, 0.3748**, and **7.4736, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **18.1160, 0.6153, 0.3497**, and if you desaturate by 10%, it is **22.4390, 0.5568, 0.3631**.

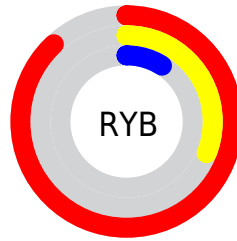
# Distribution



Red (88%)

Green (26%)

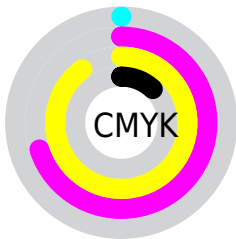
Blue (9%)



Red (88%)

Yellow (31%)

Blue (9%)

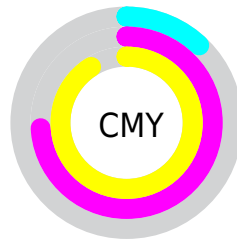


Cyan (0%)

Magenta (70%)

Yellow (90%)

Black (12%)



Cyan (12%)

Magenta (74%)


Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.9195, 0.5907, 0.3577 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 19.9195, 0.5907, 0.3577 by changing the saturation by 10% instead.





 19.9195, 0.5907,  
0.3577


 19.9195, 0.5907,  
0.3577


251.4790, 0.4427,  
0.3629


 12.3365, 0.6242,  
0.3468


 43.2822, 0.5380,  
0.3663


 6.9733, 0.6695,  
0.3305


 59.8307, 0.5175,  
0.3674

 3.4454, 0.7064,  
0.2936

 80.1365, 0.5001,  
0.3675

 1.3685, 0.7600,  
0.2400

 104.5840, 0.4852,  
0.3669

 0.1933, 0.9073,  
0.0927

 133.5576, 0.4723,  
0.3661

 0.0000, 1.0000,  
0.0000


 167.4417, 0.4612,


 0.0000, 0.0000,


0.3651


0.0000


 206.6207, 0.4514,  
0.3640

 19.9195, 0.5907,  
0.3577

 19.9195, 0.5907,  
0.3577

 18.1160, 0.6153,  
0.3497


 22.4390, 0.5568,  
0.3631

 25.7217, 0.5172,  
0.3646

 29.8270, 0.4766,  
0.3628


 34.8071, 0.4383,  
0.3586

 40.7097, 0.4043,  
0.3530

 47.5791, 0.3751,  
0.3469

 55.4564, 0.3504,  
0.3407

 64.3807, 0.3300,  
0.3347

 74.3885, 0.3129,  
0.3291

# Harmonies

## Analogous

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



19.9195, 0.5479, 0.2793



19.9195, 0.5907, 0.3577



19.9195, 0.5342, 0.4498

# Triad

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



19.9195, 0.5907, 0.3577



19.9195, 0.1897, 0.5151



19.9195, 0.1579, 0.1361

# Complementary

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



19.9195, 0.5907, 0.3577



37.8244, 0.2078, 0.2627

# 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.



19.9195, 0.1085, 0.1452



19.9195, 0.5907, 0.3577



19.9195, 0.1171, 0.3208

# Square

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



19.9195, 0.5907, 0.3577



19.9195, 0.3038, 0.6152



19.9195, 0.0949, 0.1966



19.9195, 0.2565, 0.1577



# Rectangle

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



19.9195, 0.5907, 0.3577



19.9195, 0.4658, 0.5211



19.9195, 0.0949, 0.1966



19.9195, 0.1368, 0.1355

# Sweetspot

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



19.9207, 0.5907, 0.3577



66.8038, 0.3673, 0.3451



19.7305, 0.3776, 0.1896



13.5590, 0.3764, 0.3472



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.



19.9207, 0.5907, 0.3577



24.1602, 0.6163, 0.3488



43.4675, 0.4705, 0.4579



14.1926, 0.3286, 0.3343



10.6851, 0.6128, 0.3516



0.8737, 0.5830, 0.3753



# Inverse Universe

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



37.8244, 0.2078, 0.2627



47.7288, 0.2039, 0.2541



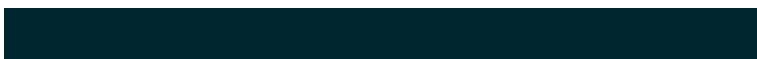
11.1865, 0.1667, 0.1123



15.0279, 0.2982, 0.3237



20.9677, 0.2044, 0.2559



1.5824, 0.2079, 0.2685



# Previews

## White Background



This preview shows how the Yxy color 19.9195, 0.5907, 0.3577 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 19.9195, 0.5907, 0.3577 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 19.9195, 0.5907, 0.3577**

## **Background**



This preview shows how black text looks on a background with the Yxy color 19.9195, 0.5907, 0.3577.



This preview shows how white text looks on a background with the Yxy color 19.9195, 0.5907, 0.3577.

# 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

19.9195, 0.5907, 0.3577

### Protanopia

20.0316, 0.4248, 0.4682

### Deuteranopia

20.0248, 0.4693, 0.4655



## Tritanopia

19.9559, 0.5544, 0.3272

# Trichromacy



## Original Color

19.9195, 0.5907, 0.3577

## Protanomaly

18.3455, 0.4958, 0.4197

## Deuteranomaly

18.7650, 0.5243, 0.4176

## Tritanomaly

19.9046, 0.5724, 0.3405

# Monochromacy



## Original Color

19.9195, 0.5907, 0.3577

## Achromatopsia

15.2926, 0.3127, 0.3290

## Achromatomaly

15.1205, 0.4289, 0.3582

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.9195, 0.5907, 0.3577 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(224, 67, 22)` looks like.

```
.text, #text, p{  
    color:rgb(224, 67, 22)  
}
```

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(224, 67, 22) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 67, 22) }
```

## Border

The CSS property to change the border of an element to Yxy 19.9195, 0.5907, 0.3577 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(224, 67, 22) }
```

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

```
.border{ border-color:rgb(224, 67, 22) }
```

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

Here you see how a box with a 4 pixel `rgb(224, 67, 22)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 67, 22); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 67, 22);  
box-shadow:4px 4px 4px 4px rgb(224, 67,  
22) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.9195, 0.5907, 0.3577 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 67, 22) }
```

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

```
.background{ background-color: rgb(224, 67,  
22) }
```

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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