

# Converting Colors

$Y_{xy}(13.4230, 0.5896, 0.3533)$

Have a look what the booklet for  
Yxy(13.4230, 0.5896, 0.3533)  
contains.

<b>Yxy(13.4230, 0.5896, 0.3533)</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(13.4230, 0.5896, 0.3533)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BD3516
RGB	189, 53, 22
RGB Percent	74%, 21%, 9%
CMY	0.2589, 0.7920, 0.9137
CMYK	0.00, 0.72, 0.88, 0.26
HSL	11°, 79%, 41%
HSV	11°, 88%, 74%
XYZ	22.4008, 13.4230, 2.1694
YIQ	90.1300, 91.0070, 19.1910

# Conversions

## Conversions Part 2

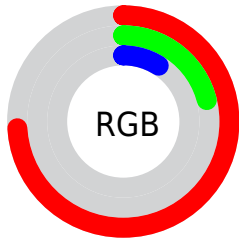
<b>Format</b>	<b>Color</b>
<b>RYB</b>	189, 60, 22
Decimal	12399894
CIELab	43.39, 52.84, 48.18
CIElCh	43, 71.510, 42.361
Yxy	13.4230, 0.5896, 0.3533
Android (android.graphics.Color)	4290589974 (0xFFBD3516)
YUV	90.1300, -33.5881, 86.7090
Hunter-Lab	36.6374, 45.0227, 22.1354

# Details

The Yxy color **13.4230, 0.5896, 0.3533** is a dark color, and the websafe version is hex **CC3300**. A complement of this color would be **28.2798, 0.2121, 0.2760**, and the grayscale version is **10.3202, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.0500, 0.5306, 0.3620**, and **4.5120, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **12.1871, 0.6165, 0.3466**, and if you desaturate by 10%, it is **15.1613, 0.5534, 0.3575**.

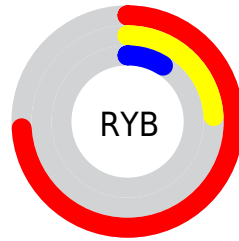
# Distribution



 Red (74%)

 Green (21%)

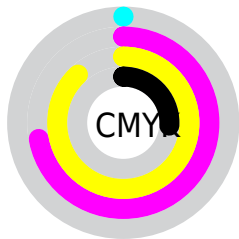
 Blue (9%)



 Red (74%)

 Yellow (24%)

 Blue (9%)

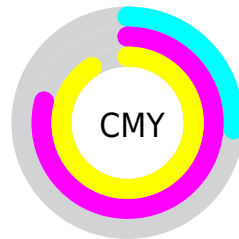


 Cyan (0%)

 Magenta (72%)

 Yellow (88%)

 Black (26%)



 Cyan (26%)

 Magenta (79%)


 Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 13.4230, 0.5896, 0.3533 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 13.4230, 0.5896, 0.3533 by changing the saturation by 10% instead.





 13.4230, 0.5896,  
0.3533


 13.4230, 0.5896,  
0.3533


213.6111, 0.4317,  
0.3585


 7.7205, 0.6301,  
0.3409


 32.0617, 0.5301,  
0.3625


 3.9166, 0.6818,  
0.3182

 45.7666, 0.5080,  
0.3635

 1.6270, 0.7301,  
0.2699

 62.9077, 0.4896,  
0.3634

 0.3757, 0.8371,  
0.1629

 83.8695, 0.4742,  
0.3628

 0.0000, 1.0000,  
0.0000


 109.0364, 0.4611,  
0.3618

 0.0000, 0.0000,  
0.0000


 138.7927, 0.4499,


0.3608

 173.5228, 0.4402,  
0.3597

 13.4230, 0.5896,  
0.3533


 13.4230, 0.5896,  
0.3533


 12.1871, 0.6165,  
0.3466


 15.1613, 0.5534,  
0.3575

 12.0256, 0.6204,  
0.3456

 17.4514, 0.5123,  
0.3583

 20.3369, 0.4709,  
0.3565

 23.8564, 0.4325,  
0.3528

 28.0449, 0.3989,  
0.3480

■ 32.9350, 0.3703,  
0.3429

■ 38.5571, 0.3464,  
0.3378

■ 44.9397, 0.3266,  
0.3329

■ 52.1099, 0.3102,  
0.3283

# Harmonies

## Analogous

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



13.4230, 0.5400, 0.2755



13.4230, 0.5896, 0.3533



13.4230, 0.5396, 0.4449

# Triad

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



13.4230, 0.5896, 0.3533



13.4230, 0.1967, 0.5238



13.4230, 0.1547, 0.1367

# Complementary

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



13.4230, 0.5896, 0.3533



28.2798, 0.2121, 0.2760

# 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.



13.4230, 0.1078, 0.1479



13.4230, 0.5896, 0.3533



13.4230, 0.1210, 0.3312

# Square

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



13.4230, 0.5896, 0.3533



13.4230, 0.3116, 0.6128



13.4230, 0.0962, 0.2025



13.4230, 0.2496, 0.1565



# Rectangle

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



13.4230, 0.5896, 0.3533



13.4230, 0.4743, 0.5166



13.4230, 0.0962, 0.2025



13.4230, 0.1345, 0.1368

# Sweetspot

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



13.4238, 0.5896, 0.3533



59.8756, 0.3679, 0.3424



13.8716, 0.3659, 0.1847



12.1939, 0.3769, 0.3442



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



13.4238, 0.5896, 0.3533



21.2914, 0.6225, 0.3439



28.5121, 0.4743, 0.4516



9.8156, 0.3284, 0.3333



8.1769, 0.6185, 0.3471



0.4086, 0.5747, 0.3819



# Inverse Universe

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



28.2798, 0.2121, 0.2760



47.5671, 0.2076, 0.2673



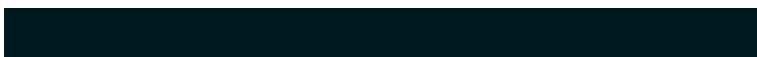
8.8597, 0.1715, 0.1264



10.4998, 0.2985, 0.3246



18.0981, 0.2081, 0.2692



0.7884, 0.2125, 0.2850



# Previews

## White Background



This preview shows how the Yxy color 13.4230, 0.5896, 0.3533 looks on a white 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



# Black Background



This preview shows how the Yxy color 13.4230, 0.5896, 0.3533 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

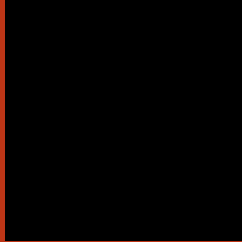
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 13.4230, 0.5896, 0.3533**

## Background



This preview shows how black text looks on a background with the Yxy color 13.4230, 0.5896, 0.3533.



This preview shows how white text looks on a background with the Yxy color 13.4230, 0.5896, 0.3533.

# 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

13.4230, 0.5896, 0.3533

### Protanopia

13.7291, 0.4192, 0.4626

### Deuteranopia

13.5607, 0.4704, 0.4647



## Tritanopia

13.4763, 0.5594, 0.3278

# Trichromacy



## Original Color

13.4230, 0.5896, 0.3533

## Protanomaly

12.4304, 0.4922, 0.4131

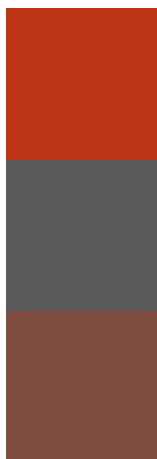
## Deuteranomaly

12.7275, 0.5235, 0.4162

## Tritanomaly

13.4749, 0.5735, 0.3386

# Monochromacy



## Original Color

13.4230, 0.5896, 0.3533

## Achromatopsia

10.2242, 0.3127, 0.3290

## Achromatomaly

10.1250, 0.4263, 0.3534

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 13.4230, 0.5896, 0.3533 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(189, 53, 22)` looks like.

```
.text, #text, p{  
    color:rgb(189, 53, 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(189, 53, 22) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 53, 22) }
```

## Border

The CSS property to change the border of an element to Yxy 13.4230, 0.5896, 0.3533 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(189, 53, 22) }
```

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

```
.border{ border-color:rgb(189, 53, 22) }
```

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

Here you see how a box with a 4 pixel rgb(189, 53, 22) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 53, 22); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 53, 22);  
box-shadow:4px 4px 4px 4px rgb(189, 53,  
22) }
```



# Background

The CSS property to change the background color of an element to Yxy 13.4230, 0.5896, 0.3533 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 53, 22) }
```

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

```
.background{ background-color: rgb(189, 53,  
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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