

# Converting Colors

$Y_{xy}(23.4188, 0.5166, 0.4208)$

Have a look what the booklet for  
Yxy(23.4188, 0.5166, 0.4208)  
contains.

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**Color**

**Yxy(23.3615, 0.5162, 0.4209)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C47010
RGB	196, 112, 16
RGB Percent	77%, 44%, 6%
CMY	0.2314, 0.5607, 0.9371
CMYK	0.00, 0.43, 0.92, 0.23
HSL	32°, 85%, 42%
HSV	32°, 92%, 77%
XYZ	28.6510, 23.3615, 3.4912
YIQ	126.1720, 80.8800, -12.0480

# Conversions

## Conversions Part 2

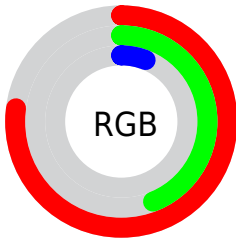
<b>Format</b>	<b>Color</b>
<b>RYB</b>	174, 196, 16
Decimal	12873744
CIELab	55.44, 27.31, 59.64
CIELCh	55, 65.594, 65.397
Yxy	23.3615, 0.5162, 0.4209
Android (android.graphics.Color)	4291063824 (0xFFC47010)
YUV	126.1720, -54.3148, 61.2392
Hunter-Lab	48.3337, 21.2262, 29.5511

# Details

The Yxy color **23.3615, 0.5162, 0.4209** is a dark color, and the websafe version is hex **CC6600**. The color can be described as dark washed orange. A complement of this color would be **13.2157, 0.1798, 0.1613**, and the grayscale version is **21.0966, 0.3127, 0.3290**.

A 20% lighter version of the original color is **48.2920, 0.4775, 0.4138**, and **8.7893, 0.5476, 0.4034** is the 20% darker color. If you saturate the color by 10%, you get **21.7400, 0.5315, 0.4162**, and if you desaturate by 10%, it is **25.5728, 0.4947, 0.4227**.

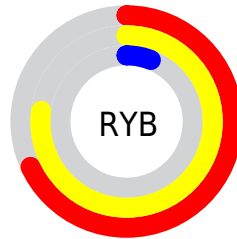
# Distribution



Red (77%)

Green (44%)

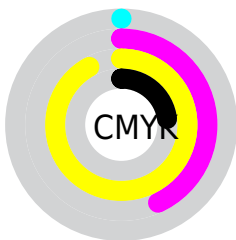
Blue (6%)



Red (68%)

Yellow (77%)

Blue (6%)

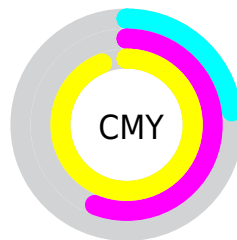


Cyan (0%)

Magenta (43%)

Yellow (92%)

Black (23%)



Cyan (23%)

Magenta (56%)


Yellow (94%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 23.3615, 0.5162, 0.4209 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 23.3615, 0.5162, 0.4209 by changing the saturation by 10% instead.





 23.3615, 0.5162,  
0.4209


 23.3615, 0.5162,  
0.4209


269.5763, 0.4111,  
0.3854


 14.8607, 0.5391,  
0.4225


 48.9862, 0.4794,  
0.4126


 8.7217, 0.5710,  
0.4240


 66.8789, 0.4650,  
0.4079


 4.5601, 0.5929,  
0.4071


 88.6710, 0.4526,  
0.4034

 1.9915, 0.6224,  
0.3776

 114.7469, 0.4419,  
0.3991

 0.6025, 0.6842,  
0.3158

 145.4910, 0.4326,  
0.3952


 0.0000, 1.0000,  
0.0000


 181.2876, 0.4245,


 0.0000, 0.0000,

0.3916

0.0000

 222.5213, 0.4174,  
0.3884

 23.3615, 0.5162,  
0.4209


 23.3615, 0.5162,  
0.4209


 21.7400, 0.5315,  
0.4162

 25.5728, 0.4947,  
0.4227

 28.0592, 0.4703,  
0.4192

 30.8367, 0.4444,  
0.4112

 33.9188, 0.4186,  
0.4001

 37.3175, 0.3939,  
0.3870

■ 41.0439, 0.3710,  
0.3729

■ 45.1087, 0.3503,  
0.3586

■ 49.5216, 0.3318,  
0.3446

■ 54.2921, 0.3155,  
0.3313

# Harmonies

## Analogous

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



23.3615, 0.5305, 0.3452



23.3615, 0.5162, 0.4209



23.3615, 0.4456, 0.4982

# Triad

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



23.3615, 0.5162, 0.4209



23.3615, 0.1706, 0.3669



23.3615, 0.2424, 0.1799

# Complementary

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



23.3615, 0.5162, 0.4209



13.2157, 0.1798, 0.1613

# 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.



23.3615, 0.1707, 0.1692



23.3615, 0.5162, 0.4209



23.3615, 0.1349, 0.2515

# Square

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



23.3615, 0.5162, 0.4209



23.3615, 0.2477, 0.4971



23.3615, 0.1363, 0.1894



23.3615, 0.3513, 0.2173



# Rectangle

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



23.3615, 0.5162, 0.4209



23.3615, 0.3823, 0.5361



23.3615, 0.1363, 0.1894



23.3615, 0.2140, 0.1732

# Sweetspot

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



23.3627, 0.5162, 0.4209



76.7752, 0.3638, 0.3680



13.0862, 0.4837, 0.2492



15.7644, 0.3732, 0.3743



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.



23.3627, 0.5162, 0.4209



38.8655, 0.5337, 0.4145



50.8488, 0.4150, 0.5046



10.9473, 0.3276, 0.3413



14.1443, 0.5295, 0.4177



0.7481, 0.4986, 0.4423



# Inverse Universe

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



13.2157, 0.1798, 0.1613



20.4161, 0.1732, 0.1435



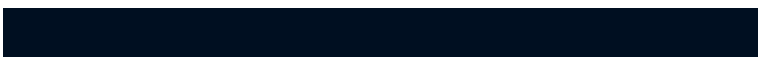
4.4961, 0.1545, 0.0667



10.5056, 0.2984, 0.3164



7.5898, 0.1746, 0.1487



0.4658, 0.1865, 0.1912



# Previews

## White Background



This preview shows how the Yxy color 23.3615, 0.5162, 0.4209 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 23.3615, 0.5162, 0.4209 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 23.3615, 0.5162, 0.4209**

## **Background**



This preview shows how black text looks on a background with the Yxy color 23.3615, 0.5162, 0.4209.



This preview shows how white text looks on a background with the Yxy color 23.3615, 0.5162, 0.4209.

# 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

23.3615, 0.5162, 0.4209

### Protanopia

23.5961, 0.4330, 0.4806

### Deuteranopia

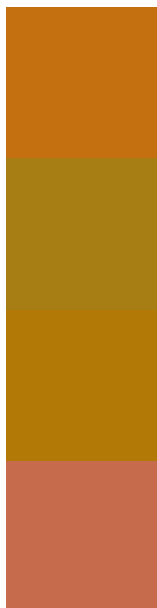
23.3567, 0.4724, 0.4631



## Tritanopia

23.3498, 0.4329, 0.3189

# Trichromacy



## Original Color

23.3615, 0.5162, 0.4209

## Protanomaly

23.1877, 0.4648, 0.4582

## Deuteranomaly

23.2716, 0.4891, 0.4471

## Tritanomaly

23.1933, 0.4767, 0.3667

# Monochromacy



## Original Color

23.3615, 0.5162, 0.4209

## Achromatopsia

20.8637, 0.3127, 0.3290

## Achromatomaly

20.9259, 0.3946, 0.3880

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 23.3615, 0.5162, 0.4209 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(196, 112, 16)` looks like.

```
.text, #text, p{  
    color:rgb(196, 112, 16)  
}
```

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(196, 112, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 112, 16) }
```

## Border

The CSS property to change the border of an element to Yxy 23.3615, 0.5162, 0.4209 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(196, 112, 16) }
```

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

```
.border{ border-color:rgb(196, 112, 16) }
```

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

Here you see how a box with a 4 pixel `rgb(196, 112, 16)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 112, 16); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 112, 16);  
box-shadow:4px 4px 4px 4px rgb(196, 112,  
16) }
```



# Background

The CSS property to change the background color of an element to Yxy 23.3615, 0.5162, 0.4209 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 112, 16) }
```

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

```
.background{ background-color: rgb(196,  
112, 16) }
```

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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