

# Converting Colors

$Y_{xy}(23.6472, 0.5403, 0.3991)$

Have a look what the booklet for  
Yxy(23.6472, 0.5403, 0.3991)  
contains.

<b>Yxy(23.7517, 0.5402, 0.3993)</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(23.7517, 0.5402, 0.3993)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D46715
RGB	212, 103, 21
RGB Percent	83%, 40%, 8%
CMY	0.1687, 0.5960, 0.9178
CMYK	0.00, 0.51, 0.90, 0.17
HSL	26°, 82%, 46%
HSV	26°, 90%, 83%
XYZ	32.1329, 23.7517, 3.5987
YIQ	126.2430, 91.2860, -2.3940

# Conversions

## Conversions Part 2

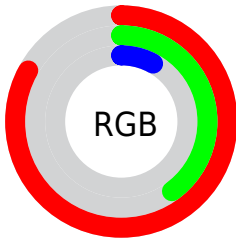
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	212, 165, 21
Decimal	13920021
CIE Lab	55.84, 38.67, 59.68
CIE LCh	56, 71.108, 57.058
Yxy	23.7517, 0.5402, 0.3993
Android (android.graphics.Color)	4292110101 (0xFFD46715)
YUV	126.2430, -51.8848, 75.2089
Hunter-Lab	48.7357, 32.4028, 29.7369

# Details

The Yxy color **23.7517, 0.5402, 0.3993** 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 **20.8581, 0.1898, 0.1963**, and the grayscale version is **21.1089, 0.3127, 0.3290**.

A 20% lighter version of the original color is **45.5587, 0.4828, 0.4041**, and **8.9400, 0.5814, 0.3765** is the 20% darker color. If you saturate the color by 10%, you get **21.4866, 0.5627, 0.3914**, and if you desaturate by 10%, it is **26.4500, 0.5131, 0.4026**.

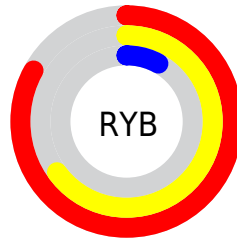
# Distribution



Red (83%)

Green (40%)

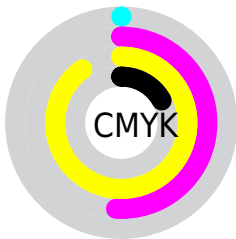
Blue (8%)



Red (83%)

Yellow (65%)

Blue (8%)

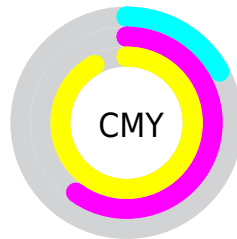


Cyan (0%)

Magenta (51%)

Yellow (90%)

Black (17%)



Cyan (17%)

Magenta (60%)


Yellow (92%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 23.7517, 0.5402, 0.3993 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 23.7517, 0.5402, 0.3993 by changing the saturation by 10% instead.




 23.7517, 0.5402,  
0.3993


 23.7517, 0.5402,  
0.3993


271.5627, 0.4222,  
0.3779


 15.1495, 0.5663,  
0.3968


 49.6247, 0.4987,  
0.3967


 8.9244, 0.6015,  
0.3920


 67.6643, 0.4825,  
0.3941


 4.6919, 0.6300,  
0.3700

 89.6186, 0.4686,  
0.3912

 2.0676, 0.6668,  
0.3332

 115.8718, 0.4567,  
0.3882

 0.6463, 0.7337,  
0.2663

 146.8085, 0.4463,  
0.3854

 0.0000, 1.0000,  
0.0000

 182.8129, 0.4372,

 0.0000, 0.0000,

0.3827

0.0000

224.2695, 0.4293,  
0.3802

23.7517, 0.5402,  
0.3993

23.7517, 0.5402,  
0.3993

21.4866, 0.5627,  
0.3914


26.4500, 0.5131,  
0.4026


29.5891, 0.4830,  
0.4007


33.1948, 0.4521,  
0.3945

37.2889, 0.4223,  
0.3853

41.8914, 0.3947,  
0.3745

 47.0214, 0.3700,  
0.3628

 52.6963, 0.3482,  
0.3511

 58.9331, 0.3292,  
0.3398

 65.7477, 0.3129,  
0.3291

# Harmonies

## Analogous

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



23.7517, 0.5358, 0.3226



23.7517, 0.5402, 0.3993



23.7517, 0.4758, 0.4833

# Triad

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



23.7517, 0.5402, 0.3993



23.7517, 0.1790, 0.4115



23.7517, 0.2121, 0.1656

# Complementary

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



23.7517, 0.5402, 0.3993



20.8581, 0.1898, 0.1963

# 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.



23.7517, 0.1490, 0.1624



23.7517, 0.5402, 0.3993



23.7517, 0.1306, 0.2730

# Square

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



23.7517, 0.5402, 0.3993



23.7517, 0.2697, 0.5393



23.7517, 0.1230, 0.1931



23.7517, 0.3179, 0.1971



# Rectangle

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



23.7517, 0.5402, 0.3993



23.7517, 0.4121, 0.5345



23.7517, 0.1230, 0.1931



23.7517, 0.1864, 0.1613

# Sweetspot

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



23.7530, 0.5402, 0.3993



73.7827, 0.3635, 0.3595



16.2062, 0.4436, 0.2275



15.1800, 0.3714, 0.3636



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.



23.7530, 0.5402, 0.3993



32.3126, 0.5645, 0.3900



53.5569, 0.4309, 0.4906



13.2893, 0.3280, 0.3391



13.4577, 0.5603, 0.3933



0.9742, 0.5301, 0.4173

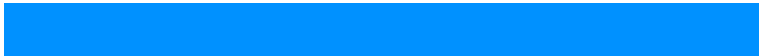


# Inverse Universe

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



20.8581, 0.1898, 0.1963



27.6121, 0.1831, 0.1789



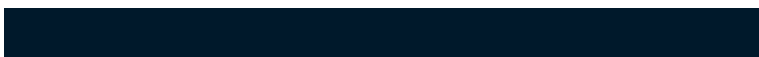
6.2277, 0.1569, 0.0761



13.1728, 0.2982, 0.3187



11.5690, 0.1841, 0.1828



0.8607, 0.1918, 0.2105



# Previews

## White Background



This preview shows how the Yxy color 23.7517, 0.5402, 0.3993 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 23.7517, 0.5402, 0.3993 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 23.7517, 0.5402, 0.3993**

## **Background**



This preview shows how black text looks on a background with the Yxy color 23.7517, 0.5402, 0.3993.



This preview shows how white text looks on a background with the Yxy color 23.7517, 0.5402, 0.3993.

# 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

23.7517, 0.5402, 0.3993

### Protanopia

23.9960, 0.4304, 0.4771

### Deuteranopia

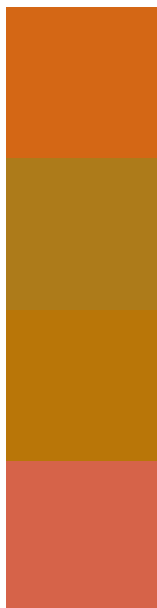
23.7248, 0.4720, 0.4634



## Tritanopia

23.7921, 0.4680, 0.3213

# Trichromacy



**Original Color**

23.7517, 0.5402, 0.3993

**Protanomaly**

23.1247, 0.4732, 0.4466

**Deuteranomaly**

23.2887, 0.4992, 0.4382

**Tritanomaly**

23.7009, 0.5044, 0.3579

# Monochromacy



**Original Color**

23.7517, 0.5402, 0.3993

**Achromatopsia**

20.8637, 0.3127, 0.3290

**Achromatomaly**

20.8295, 0.4022, 0.3783

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 23.7517, 0.5402, 0.3993 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(212, 103, 21)` looks like.

```
.text, #text, p{  
    color:rgb(212, 103, 21)  
}
```

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(212, 103, 21) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(212, 103, 21) }
```

## Border

The CSS property to change the border of an element to Yxy 23.7517, 0.5402, 0.3993 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(212, 103, 21) }
```

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

```
.border{ border-color:rgb(212, 103, 21) }
```

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

Here you see how a box with a 4 pixel `rgb(212, 103, 21)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(212, 103, 21); -webkit-box-  
shadow:4px 4px 4px 4px rgb(212, 103, 21);  
box-shadow:4px 4px 4px 4px rgb(212, 103,  
21) }
```



# Background

The CSS property to change the background color of an element to Yxy 23.7517, 0.5402, 0.3993 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(212, 103, 21) }
```

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

```
.background{ background-color: rgb(212,  
103, 21) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor