

# Converting Colors

$Y_{xy}(29.2219, 0.5306, 0.4169)$

Have a look what the booklet for  
Yxy(29.2219, 0.5306, 0.4169)  
contains.

<b>Yxy(29.1209, 0.5312, 0.4164)</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(29.1209, 0.5312, 0.4164)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DF7800
RGB	223, 120, 0
RGB Percent	87%, 47%, 0%
CMY	0.1255, 0.5294, 0.9997
CMYK	0.00, 0.46, 1.00, 0.13
HSL	32°, 100%, 44%
HSV	32°, 100%, 87%
XYZ	37.1494, 29.1209, 3.6646
YIQ	137.1170, 99.9080, -15.4840

# Conversions

## Conversions Part 2

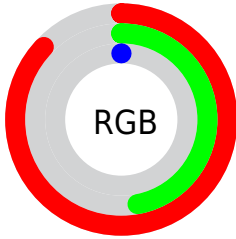
<b>Format</b>	<b>Color</b>
<b>RYB</b>	191, 223, 0
Decimal	14645248
CIELab	60.89, 34.16, 67.99
CIElCh	61, 76.091, 63.326
Yxy	29.1209, 0.5312, 0.4164
Android (android.graphics.Color)	4292835328 (0xFFDF7800)
YUV	137.1170, -67.5987, 75.3194
Hunter-Lab	53.9638, 28.4453, 33.7484

# Details

The Yxy color **29.1209, 0.5312, 0.4164** 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 **15.0426, 0.1732, 0.1433**, and the grayscale version is **25.2992, 0.3127, 0.3290**.

A 20% lighter version of the original color is **51.5768, 0.4716, 0.4248**, and **11.9574, 0.5580, 0.3951** is the 20% darker color. If you saturate the color by 10%, you get **29.1149, 0.5312, 0.4164**, and if you desaturate by 10%, it is **31.7949, 0.5128, 0.4224**.

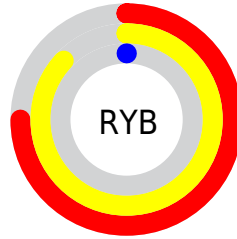
# Distribution



Red (87%)

Green (47%)

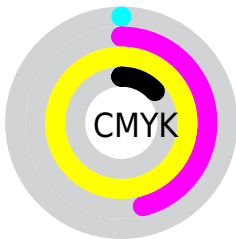
Blue (0%)



Red (75%)

Yellow (87%)

Blue (0%)

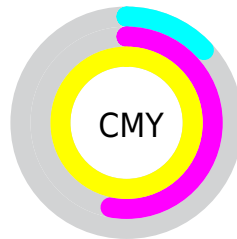


Cyan (0%)

Magenta (46%)

Yellow (100%)

Black (13%)



Cyan (13%)

Magenta (53%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.1209, 0.5312, 0.4164 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 29.1209, 0.5312, 0.4164 by changing the saturation by 10% instead.




 29.1209, 0.5312,  
0.4164


 29.1209, 0.5312,  
0.4164


297.7850, 0.4238,  
0.3880

 19.1723, 0.5529,  
0.4158


 58.2691, 0.4951,  
0.4115


 11.7948, 0.5807,  
0.4131


 78.2375, 0.4805,  
0.4079


 6.6041, 0.6029,  
0.3971


 102.3147, 0.4677,  
0.4042

 3.2158, 0.6302,  
0.3698

 130.8849, 0.4566,  
0.4006

 1.2454, 0.6735,  
0.3265

 164.3327, 0.4469,  
0.3971

 0.0983, 0.9044,  
0.0956


 203.0423, 0.4383,


 0.0000, 0.0000,


0.3939


0.0000


 247.3983, 0.4306,  
0.3908


 29.1209, 0.5312,  
0.4164


 29.1209, 0.5312,  
0.4164


 29.1149, 0.5312,  
0.4164

 31.7949, 0.5128,  
0.4224

 34.8104, 0.4910,  
0.4234

 38.1987, 0.4663,  
0.4191

 41.9798, 0.4404,  
0.4106

 46.1714, 0.4146,  
0.3989

■ 50.7896, 0.3901,  
0.3853

■ 55.8494, 0.3674,  
0.3709

■ 61.3648, 0.3470,  
0.3564

■ 67.3490, 0.3287,  
0.3423

# Harmonies

## Analogous

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



29.1209, 0.5439, 0.3380



29.1209, 0.5312, 0.4164



29.1209, 0.4570, 0.5006

# Triad

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



29.1209, 0.5312, 0.4164



29.1209, 0.1651, 0.3793



29.1209, 0.2307, 0.1699

# Complementary

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



29.1209, 0.5312, 0.4164



15.0426, 0.1732, 0.1433

# 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.



29.1209, 0.1588, 0.1606



29.1209, 0.5312, 0.4164



29.1209, 0.1261, 0.2513

# Square

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



29.1209, 0.5312, 0.4164



29.1209, 0.2482, 0.5201



29.1209, 0.1257, 0.1833



29.1209, 0.3445, 0.2071



# Rectangle

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



29.1209, 0.5312, 0.4164



29.1209, 0.3904, 0.5467



29.1209, 0.1257, 0.1833



29.1209, 0.2019, 0.1636

# Sweetspot

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



29.1225, 0.5312, 0.4164



75.5001, 0.3680, 0.3713



16.6918, 0.5127, 0.2598



15.5222, 0.3774, 0.3775



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.



29.1225, 0.5312, 0.4164



39.2038, 0.5323, 0.4156



67.3121, 0.4135, 0.5099



14.9158, 0.3279, 0.3416



17.3471, 0.5291, 0.4181



1.3810, 0.5076, 0.4351



# Inverse Universe

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



15.0426, 0.1732, 0.1433



20.1335, 0.1728, 0.1419



5.3778, 0.1508, 0.0605



14.2817, 0.2981, 0.3161



9.0611, 0.1739, 0.1459



0.8058, 0.1820, 0.1752



# Previews

## White Background



This preview shows how the Yxy color 29.1209, 0.5312, 0.4164 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 29.1209, 0.5312, 0.4164 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 29.1209, 0.5312, 0.4164**

## **Background**



This preview shows how black text looks on a background with the Yxy color 29.1209, 0.5312, 0.4164.



This preview shows how white text looks on a background with the Yxy color 29.1209, 0.5312, 0.4164.

# 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

29.1209, 0.5312, 0.4164

### Protanopia

29.3305, 0.4361, 0.4840

### Deuteranopia

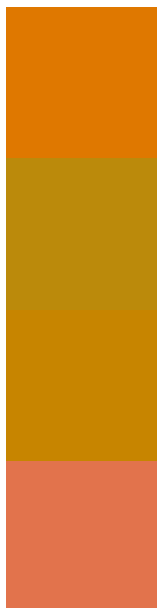
29.1953, 0.4711, 0.4642



## Tritanopia

29.2511, 0.4484, 0.3214

# Trichromacy



## Original Color

29.1209, 0.5312, 0.4164

## Protanomaly

28.7659, 0.4727, 0.4587

## Deuteranomaly

28.9172, 0.4932, 0.4466

## Tritanomaly

28.9520, 0.4966, 0.3706

# Monochromacy



## Original Color

29.1209, 0.5312, 0.4164

## Achromatopsia

25.0158, 0.3127, 0.3290

## Achromatomaly

25.2456, 0.4076, 0.3960

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.1209, 0.5312, 0.4164 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(223, 120, 0)` looks like.

```
.text, #text, p{  
    color:rgb(223, 120, 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(223, 120, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 120, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 29.1209, 0.5312, 0.4164 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(223, 120, 0) }
```

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

```
.border{ border-color:rgb(223, 120, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(223, 120, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 120, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 120, 0);  
box-shadow:4px 4px 4px 4px rgb(223, 120,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.1209, 0.5312, 0.4164 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 120, 0) }
```

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

```
.background{ background-color: rgb(223,  
120, 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](#).

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