

# Converting Colors

$Y_{xy}(25.0651, 0.5929, 0.3675)$

Have a look what the booklet for  
Yxy(25.0651, 0.5929, 0.3675)  
contains.

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**Color**

**Yxy(25.1498, 0.5925, 0.3677)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F55000
RGB	245, 80, 0
RGB Percent	96%, 31%, 0%
CMY	0.0392, 0.6862, 0.9995
CMYK	0.00, 0.67, 1.00, 0.04
HSL	20°, 100%, 48%
HSV	20°, 100%, 96%
XYZ	40.5256, 25.1498, 2.7222
YIQ	120.2150, 124.0200, 10.1000

# Conversions

## Conversions Part 2

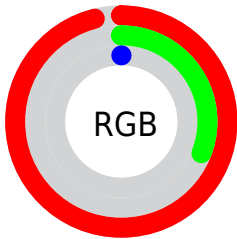
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	245, 119, 0
Decimal	16076800
CIE Lab	57.22, 60.72, 67.76
CIE LCh	57, 90.987, 48.137
Yxy	25.1498, 0.5925, 0.3677
Android (android.graphics.Color)	4294266880 (0xFFFF55000)
YUV	120.2150, -59.2660, 109.4364
Hunter-Lab	50.1496, 56.4831, 31.8863

# Details

The Yxy color **25.1498, 0.5925, 0.3677** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated red. A complement of this color would be **33.5494, 0.1936, 0.2167**, and the grayscale version is **19.0251, 0.3127, 0.3290**.

A 20% lighter version of the original color is **39.5215, 0.5090, 0.3936**, and **9.6705, 0.6384, 0.3313** is the 20% darker color. If you saturate the color by 10%, you get **25.1377, 0.5926, 0.3677**, and if you desaturate by 10%, it is **27.9414, 0.5678, 0.3772**.

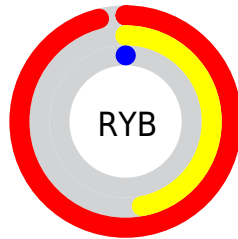
# Distribution



Red (96%)

Green (31%)

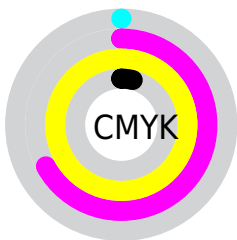
Blue (0%)



Red (96%)

Yellow (47%)

Blue (0%)

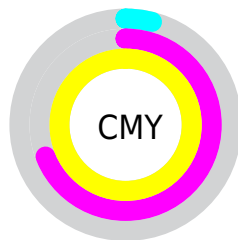


Cyan (0%)

Magenta (67%)

Yellow (100%)

Black (4%)



Cyan (4%)

Magenta (69%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 25.1498, 0.5925, 0.3677 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 25.1498, 0.5925, 0.3677 by changing the saturation by 10% instead.





 25.1498, 0.5925,  
0.3677


 25.1498, 0.5925,  
0.3677


278.5831, 0.4521,  
0.3711


 16.1887, 0.6214,  
0.3575


 51.9001, 0.5449,  
0.3759


 9.6578, 0.6578,  
0.3422


 70.4582, 0.5257,  
0.3768

 5.1726, 0.6890,  
0.3110

 92.9839, 0.5091,  
0.3768


 2.3489, 0.7330,  
0.2670

 119.8619, 0.4946,  
0.3761

 0.7994, 0.7982,  
0.2018

 151.4764, 0.4819,  
0.3750

 0.0000, 1.0000,  
0.0000


 188.2118, 0.4707,

 0.0000, 0.0000,


0.3738

0.0000


 230.4526, 0.4609,  
0.3724

 25.1498, 0.5925,  
0.3677

 25.1498, 0.5925,  
0.3677


 25.1377, 0.5926,  
0.3677

 27.9414, 0.5678,  
0.3772

 31.4512, 0.5365,  
0.3824

 35.7433, 0.5011,  
0.3827

 40.8674, 0.4650,  
0.3789

 46.8681, 0.4307,  
0.3723

■ 53.7867, 0.3997,  
0.3640

■ 61.6614, 0.3725,  
0.3550

■ 70.5283, 0.3492,  
0.3459

■ 80.4214, 0.3294,  
0.3372

# Harmonies

## Analogous

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



25.1498, 0.5658, 0.2879



25.1498, 0.5925, 0.3677



25.1498, 0.5239, 0.4637

# Triad

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



25.1498, 0.5925, 0.3677



25.1498, 0.1737, 0.4939



25.1498, 0.1654, 0.1344

# Complementary

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



25.1498, 0.5925, 0.3677



33.5494, 0.1936, 0.2167

# 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.



25.1498, 0.1100, 0.1391



25.1498, 0.5925, 0.3677



25.1498, 0.1082, 0.2974

# Square

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



25.1498, 0.5925, 0.3677



25.1498, 0.2855, 0.6201



25.1498, 0.0918, 0.1834



25.1498, 0.2730, 0.1602



# Rectangle

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



25.1498, 0.5925, 0.3677



25.1498, 0.4503, 0.5369



25.1498, 0.0918, 0.1834



25.1498, 0.1420, 0.1325

# Sweetspot

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



25.1513, 0.5925, 0.3677



67.4210, 0.3728, 0.3551



22.2224, 0.4230, 0.2104



13.6242, 0.3838, 0.3589



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.



25.1513, 0.5925, 0.3677



27.4740, 0.5930, 0.3674



60.7713, 0.4566, 0.4756



17.3652, 0.3285, 0.3368



13.7657, 0.5897, 0.3700



1.3893, 0.5654, 0.3893

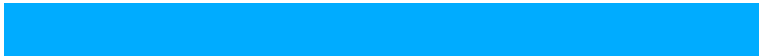


# Inverse Universe

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



33.5494, 0.1936, 0.2167



36.6568, 0.1935, 0.2164



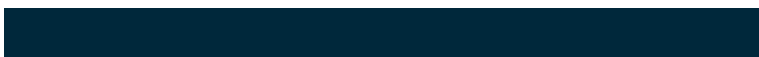
8.4723, 0.1542, 0.0750



17.7934, 0.2980, 0.3211



18.3277, 0.1941, 0.2187



1.7975, 0.1984, 0.2341



# Previews

## White Background



This preview shows how the Yxy color 25.1498, 0.5925, 0.3677 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 25.1498, 0.5925, 0.3677 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 25.1498, 0.5925, 0.3677**

## Background



This preview shows how black text looks on a background with the Yxy color 25.1498, 0.5925, 0.3677.



This preview shows how white text looks on a background with the Yxy color 25.1498, 0.5925, 0.3677.

# 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

25.1498, 0.5925, 0.3677

### Protanopia

25.2201, 0.4329, 0.4790

### Tritanopia

25.1750, 0.5446, 0.3272

# Trichromacy



## Original Color

25.1498, 0.5925, 0.3677

## Protanomaly

23.4544, 0.5011, 0.4321

## Tritanomaly

25.1309, 0.5722, 0.3487

# Monochromacy



## Original Color

25.1498, 0.5925, 0.3677

## Achromatopsia

18.7821, 0.3127, 0.3290

## Achromatomaly

18.6243, 0.4394, 0.3742

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 25.1498, 0.5925, 0.3677 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(245, 80, 0)` looks like.

```
.text, #text, p{  
    color:rgb(245, 80, 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(245, 80, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 80, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 25.1498, 0.5925, 0.3677 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(245, 80, 0) }
```

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

```
.border{ border-color:rgb(245, 80, 0) }
```

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

Here you see how a box with a 4 pixel rgb(245, 80, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 80, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 80, 0);  
box-shadow:4px 4px 4px 4px rgb(245, 80, 0)  
}
```

# Background

The CSS property to change the background color of an element to Yxy 25.1498, 0.5925, 0.3677 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 80, 0) }
```

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

```
.background{ background-color: rgb(245, 80,  
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](#).



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