

# Converting Colors

$Y_{xy}(28.4127, 0.5870, 0.3721)$

Have a look what the booklet for  
Yxy(28.4127, 0.5870, 0.3721)  
contains.

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**Color**

**Yxy(28.4048, 0.5870, 0.3721)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF5900
RGB	255, 89, 0
RGB Percent	100%, 35%, 0%
CMY	0.0000, 0.6509, 0.9998
CMYK	0.00, 0.65, 1.00, 0.00
HSL	21°, 100%, 50%
HSV	21°, 100%, 100%
XYZ	44.8095, 28.4048, 3.1222
YIQ	128.4880, 127.5050, 7.5130

# Conversions

## Conversions Part 2

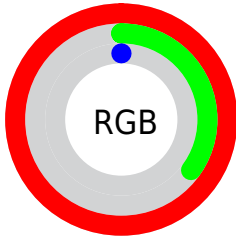
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 137, 0
Decimal	16734464
CIE <sub>Lab</sub>	60.25, 60.47, 70.25
CIE <sub>LCh</sub>	60, 92.696, 49.280
Yxy	28.4048, 0.5870, 0.3721
Android (android.graphics.Color)	4294924544 (0xFFFF5900)
YUV	128.4880, -63.3446, 110.9510
Hunter-Lab	53.2962, 56.8082, 33.8340

# Details

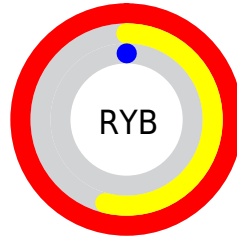
The Yxy color **28.4048, 0.5870, 0.3721** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated red. A complement of this color would be **34.4961, 0.1912, 0.2081**, and the grayscale version is **21.9620, 0.3127, 0.3290**.

A 20% lighter version of the original color is **41.9041, 0.4998, 0.4001**, and **11.4721, 0.6291, 0.3386** is the 20% darker color. If you saturate the color by 10%, you get **28.4012, 0.5870, 0.3721**, and if you desaturate by 10%, it is **31.5608, 0.5628, 0.3817**.

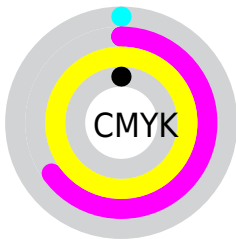
# Distribution



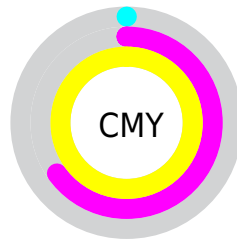
- Red (100%)
- Green (35%)
- Blue (0%)



- Red (100%)
- Yellow (54%)
- Blue (0%)



- Cyan (0%)
- Magenta (65%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (65%)
- Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.4048, 0.5870, 0.3721 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 28.4048, 0.5870, 0.3721 by changing the saturation by 10% instead.





 28.4048, 0.5870,  
0.3721


 28.4048, 0.5870,  
0.3721


294.3962, 0.4522,  
0.3731


 18.6310, 0.6142,  
0.3632


 57.1301, 0.5418,  
0.3790


 11.4040, 0.6496,  
0.3504


 76.8504, 0.5235,  
0.3797

 6.3392, 0.6779,  
0.3221


 100.6550, 0.5075,  
0.3793

 3.0524, 0.7172,  
0.2828

 128.9282, 0.4935,  
0.3785

 1.1592, 0.7745,  
0.2255

 162.0546, 0.4812,  
0.3773

 0.0280, 0.9837,  
0.0163

 200.4185, 0.4704,


 0.0000, 1.0000,


0.3760

0.0000

 244.4042, 0.4607,  
0.3745


 0.0000, 0.0000,  
0.0000

 28.4048, 0.5870,  
0.3721


 28.4048, 0.5870,  
0.3721


 28.4012, 0.5870,  
0.3721

 31.5608, 0.5628,  
0.3817

 35.4709, 0.5324,  
0.3868

 40.2008, 0.4981,  
0.3868

 45.8011, 0.4629,  
0.3825

 52.3172, 0.4295,  
0.3753

■ 59.7911, 0.3990,  
0.3665

■ 68.2617, 0.3722,  
0.3568

■ 77.7659, 0.3491,  
0.3471

■ 88.3382, 0.3294,  
0.3378

# Harmonies

## Analogous

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



28.4048, 0.5640, 0.2923



28.4048, 0.5870, 0.3721



28.4048, 0.5179, 0.4674

# Triad

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



28.4048, 0.5870, 0.3721



28.4048, 0.1732, 0.4823



28.4048, 0.1707, 0.1375

# Complementary

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



28.4048, 0.5870, 0.3721



34.4961, 0.1912, 0.2081

# 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.



28.4048, 0.1140, 0.1410



28.4048, 0.5870, 0.3721



28.4048, 0.1099, 0.2928

# Square

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



28.4048, 0.5870, 0.3721



28.4048, 0.2828, 0.6122



28.4048, 0.0948, 0.1835



28.4048, 0.2792, 0.1643



# Rectangle

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



28.4048, 0.5870, 0.3721



28.4048, 0.4451, 0.5385



28.4048, 0.0948, 0.1835



28.4048, 0.1468, 0.1352

# Sweetspot

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



28.4065, 0.5870, 0.3721



68.2524, 0.3723, 0.3569



24.1613, 0.4299, 0.2142



13.8180, 0.3831, 0.3610



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.



28.4065, 0.5870, 0.3721



28.4043, 0.5870, 0.3721



68.5940, 0.4529, 0.4786



19.0238, 0.3286, 0.3374



15.0932, 0.5840, 0.3745



1.6650, 0.5623, 0.3917



# Inverse Universe

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



34.4961, 0.1912, 0.2081



34.4935, 0.1911, 0.2081



8.9138, 0.1535, 0.0724



19.3517, 0.2980, 0.3205



18.3141, 0.1917, 0.2103



1.9881, 0.1959, 0.2253



# Previews

## White Background



This preview shows how the Yxy color 28.4048, 0.5870, 0.3721 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

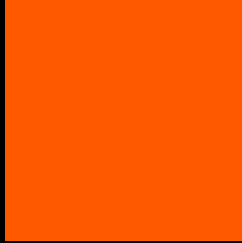
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 28.4048, 0.5870, 0.3721 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 28.4048, 0.5870, 0.3721**

## **Background**



This preview shows how black text looks on a background with the Yxy color 28.4048, 0.5870, 0.3721.



This preview shows how white text looks on a background with the Yxy color 28.4048, 0.5870, 0.3721.

# 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

28.4048, 0.5870, 0.3721

### Protanopia

28.5249, 0.4337, 0.4800

### Deuteranopia

28.3673, 0.4717, 0.4637



## Tritanopia

28.4783, 0.5304, 0.3263

# Trichromacy



**Original Color**

28.4048, 0.5870, 0.3721

**Protanomaly**

26.5780, 0.4986, 0.4350

**Deuteranomaly**

27.1346, 0.5209, 0.4246

**Tritanomaly**

28.2110, 0.5632, 0.3507

# Monochromacy



**Original Color**

28.4048, 0.5870, 0.3721

**Achromatopsia**

21.9526, 0.3127, 0.3290

**Achromatomaly**

21.7578, 0.4361, 0.3762

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.4048, 0.5870, 0.3721 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(255, 89, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 89, 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(255, 89, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 89, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 28.4048, 0.5870, 0.3721 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(255, 89, 0) }
```

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

```
.border{ border-color:rgb(255, 89, 0) }
```

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

Here you see how a box with a 4 pixel rgb(255, 89, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 89, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 89, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 89, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 28.4048, 0.5870, 0.3721 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 89, 0) }
```

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

```
.background{ background-color: rgb(255, 89,  
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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