

# Converting Colors

$Y_{xy}(28.4854, 0.5865, 0.3725)$

Have a look what the booklet for  
Yxy(28.4854, 0.5865, 0.3725)  
contains.

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**Color**

**Yxy(28.5723, 0.5860, 0.3729)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF5A00
RGB	255, 90, 0
RGB Percent	100%, 35%, 0%
CMY	0.0000, 0.6471, 0.9999
CMYK	0.00, 0.65, 1.00, 0.00
HSL	21°, 100%, 50%
HSV	21°, 100%, 100%
XYZ	44.9004, 28.5723, 3.1492
YIQ	129.0750, 127.2300, 6.9900

# Conversions

## Conversions Part 2

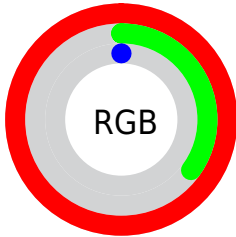
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 139, 0
Decimal	16734720
CIE <sub>Lab</sub>	60.40, 60.09, 70.34
CIE <sub>LCh</sub>	60, 92.510, 49.492
Yxy	28.5723, 0.5860, 0.3729
Android (android.graphics.Color)	4294924800 (0xFFFF5A00)
YUV	129.0750, -63.6340, 110.4362
Hunter-Lab	53.4531, 56.3966, 33.9241

# Details

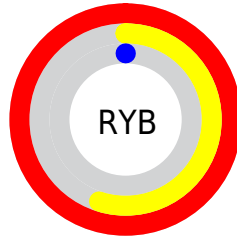
The Yxy color **28.5723, 0.5860, 0.3729** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated red. A complement of this color would be **34.1432, 0.1908, 0.2067**, and the grayscale version is **22.1740, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.2111, 0.4988, 0.4011**, and **11.5576, 0.6278, 0.3397** is the 20% darker color. If you saturate the color by 10%, you get **28.5681, 0.5860, 0.3729**, and if you desaturate by 10%, it is **31.7430, 0.5618, 0.3825**.

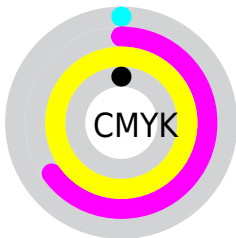
# Distribution



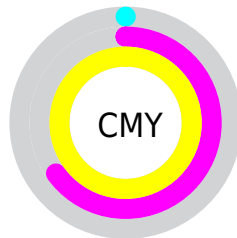
- Red (100%)
- Green (35%)
- Blue (0%)



- Red (100%)
- Yellow (55%)
- 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 28.5723, 0.5860, 0.3729 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 28.5723, 0.5860, 0.3729 by changing the saturation by 10% instead.




 28.5723, 0.5860,  
0.3729

 28.5723, 0.5860,  
0.3729


295.1916, 0.4518,  
0.3734


 18.7575, 0.6131,  
0.3642


 57.3969, 0.5411,  
0.3796

 11.4952, 0.6484,  
0.3516


 77.1754, 0.5228,  
0.3802

 6.4009, 0.6764,  
0.3236


 101.0440, 0.5069,  
0.3798

 3.0904, 0.7154,  
0.2846

 129.3871, 0.4929,  
0.3789

 1.1791, 0.7723,  
0.2277

 162.5890, 0.4807,  
0.3777


 0.0445, 0.9745,  
0.0255


 201.0341, 0.4699,

 0.0000, 1.0000,

0.3763


0.0000


 245.1068, 0.4603,  
0.3749


 0.0000, 0.0000,  
0.0000


 28.5723, 0.5860,  
0.3729


 28.5723, 0.5860,  
0.3729


 28.5681, 0.5860,  
0.3729

 31.7430, 0.5618,  
0.3825

 35.6648, 0.5316,  
0.3875

 40.3998, 0.4975,  
0.3875

 45.9979, 0.4625,  
0.3831

 52.5041, 0.4292,  
0.3759

■ 59.9597, 0.3989,  
0.3669

■ 68.4031, 0.3722,  
0.3571

■ 77.8707, 0.3491,  
0.3473

■ 88.3967, 0.3294,  
0.3379

# Harmonies

## Analogous

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



28.5723, 0.5637, 0.2931



28.5723, 0.5860, 0.3729



28.5723, 0.5168, 0.4681

# Triad

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



28.5723, 0.5860, 0.3729



28.5723, 0.1731, 0.4803



28.5723, 0.1717, 0.1381

# Complementary

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



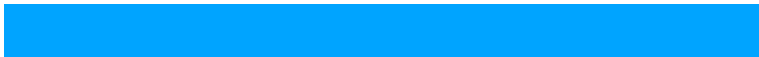
28.5723, 0.5860, 0.3729



34.1432, 0.1908, 0.2067

# 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.



28.5723, 0.1148, 0.1414



28.5723, 0.5860, 0.3729



28.5723, 0.1103, 0.2919

# Square

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



28.5723, 0.5860, 0.3729



28.5723, 0.2823, 0.6107



28.5723, 0.0953, 0.1835



28.5723, 0.2803, 0.1650



# Rectangle

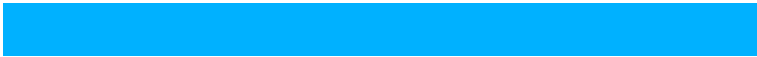
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



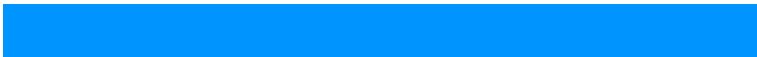
28.5723, 0.5860, 0.3729



28.5723, 0.4442, 0.5388



28.5723, 0.0953, 0.1835



28.5723, 0.1477, 0.1357

# Sweetspot

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



28.5713, 0.5860, 0.3729



68.3931, 0.3722, 0.3572



24.0050, 0.4366, 0.2179



13.8508, 0.3830, 0.3613



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.



28.5713, 0.5860, 0.3729



28.5681, 0.5860, 0.3729



70.7592, 0.4491, 0.4816



19.0355, 0.3285, 0.3374



15.1806, 0.5830, 0.3753



1.6745, 0.5613, 0.3925

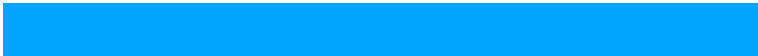


# Inverse Universe

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



34.1432, 0.1908, 0.2067



34.1393, 0.1908, 0.2067



8.6240, 0.1529, 0.0703



19.3395, 0.2980, 0.3204



18.1300, 0.1914, 0.2089



1.9710, 0.1956, 0.2241



# Previews

## White Background



This preview shows how the Yxy color 28.5723, 0.5860, 0.3729 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 28.5723, 0.5860, 0.3729 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 28.5723, 0.5860, 0.3729**

## Background



This preview shows how black text looks on a background with the Yxy color 28.5723, 0.5860, 0.3729.



This preview shows how white text looks on a background with the Yxy color 28.5723, 0.5860, 0.3729.

# 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

28.5723, 0.5860, 0.3729

### Protanopia

28.5249, 0.4337, 0.4800

### Deuteranopia

28.6556, 0.4703, 0.4648



## Tritanopia

28.6538, 0.5285, 0.3263

# Trichromacy



## Original Color

28.5723, 0.5860, 0.3729

## Protanomaly

26.8325, 0.4972, 0.4362

## Deuteranomaly

27.3764, 0.5196, 0.4257

## Tritanomaly

28.3718, 0.5623, 0.3515

# Monochromacy



## Original Color

28.5723, 0.5860, 0.3729

## Achromatopsia

21.9526, 0.3127, 0.3290

## Achromatomaly

21.9846, 0.4352, 0.3777

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.5723, 0.5860, 0.3729 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, 90, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 90, 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, 90, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 90, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 28.5723, 0.5860, 0.3729 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, 90, 0) }
```

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

```
.border{ border-color:rgb(255, 90, 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, 90, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 90, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 90, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 90, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 28.5723, 0.5860, 0.3729 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 90, 0) }
```

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

```
.background{ background-color: rgb(255, 90,  
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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