

# Converting Colors

$Y_{xy}(28.8522, 0.5721, 0.3840)$

Have a look what the booklet for  
Yxy(28.8522, 0.5721, 0.3840)  
contains.

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**Color**

**Yxy(28.6978, 0.5725, 0.3837)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F76300
RGB	247, 99, 0
RGB Percent	97%, 39%, 0%
CMY	0.0314, 0.6117, 1.0000
CMYK	0.00, 0.60, 1.00, 0.03
HSL	24°, 100%, 48%
HSV	24°, 100%, 97%
XYZ	42.8186, 28.6978, 3.2759
YIQ	131.9660, 119.9870, 0.5870

# Conversions

## Conversions Part 2

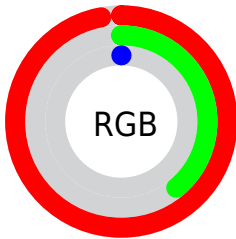
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	247, 165, 0
Decimal	16212736
CIE <sub>Lab</sub>	60.51, 53.49, 69.72
CIE <sub>LCh</sub>	61, 87.875, 52.500
Yxy	28.6978, 0.5725, 0.3837
Android (android.graphics.Color)	4294402816 (0xFFFF76300)
YUV	131.9660, -65.0592, 100.8848
Hunter-Lab	53.5703, 48.9264, 33.8736

# Details

The Yxy color **28.6978, 0.5725, 0.3837** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **27.8911, 0.1860, 0.1895**, and the grayscale version is **23.2705, 0.3127, 0.3290**.

A 20% lighter version of the original color is **44.7765, 0.4905, 0.4082**, and **11.6728, 0.6104, 0.3535** is the 20% darker color. If you saturate the color by 10%, you get **28.6999, 0.5724, 0.3837**, and if you desaturate by 10%, it is **31.8348, 0.5493, 0.3927**.

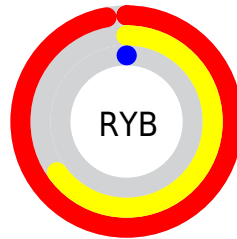
# Distribution



Red (97%)

Green (39%)

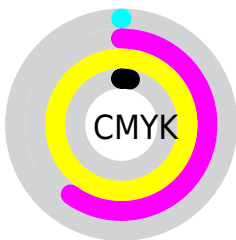
Blue (0%)



Red (97%)

Yellow (65%)

Blue (0%)

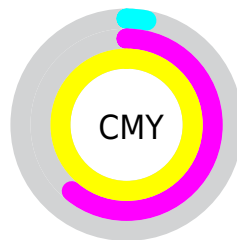


Cyan (0%)

Magenta (60%)

Yellow (100%)

Black (3%)



Cyan (3%)

Magenta (61%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.6978, 0.5725, 0.3837 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 28.6978, 0.5725, 0.3837 by changing the saturation by 10% instead.





 28.6978, 0.5725,  
0.3837


 28.6978, 0.5725,  
0.3837

295.7864, 0.4447,  
0.3771


 18.8523, 0.5984,  
0.3768


 57.5966, 0.5296,  
0.3876

 11.5636, 0.6327,  
0.3670


 77.4187, 0.5122,  
0.3872


 6.4473, 0.6590,  
0.3410


 101.3352, 0.4970,  
0.3860

 3.1189, 0.6957,  
0.3043

 129.7304, 0.4838,  
0.3844

 1.1941, 0.7505,  
0.2495

 162.9887, 0.4721,  
0.3826


 0.0569, 0.9628,  
0.0372

 201.4946, 0.4619,

 0.0000, 1.0000,

0.3808

0.0000


 245.6323, 0.4528,  
0.3789


 0.0000, 0.0000,  
0.0000


 28.6978, 0.5725,  
0.3837


 28.6978, 0.5725,  
0.3837


 28.6999, 0.5724,  
0.3837

 31.8348, 0.5493,  
0.3927

 35.5969, 0.5210,  
0.3970

 40.0374, 0.4893,  
0.3959

 45.1953, 0.4567,  
0.3905

 51.1058, 0.4254,  
0.3820

■ 57.8013, 0.3966,  
0.3718

■ 65.3118, 0.3710,  
0.3608

■ 73.6658, 0.3486,  
0.3498

■ 82.8901, 0.3293,  
0.3391

# Harmonies

## Analogous

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



28.6978, 0.5591, 0.3040



28.6978, 0.5725, 0.3837



28.6978, 0.5025, 0.4772

# Triad

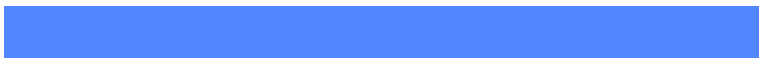
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



28.6978, 0.5725, 0.3837



28.6978, 0.1715, 0.4530



28.6978, 0.1854, 0.1457

# Complementary

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



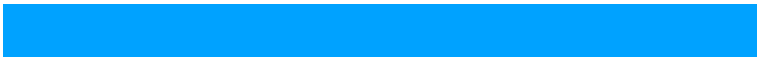
28.6978, 0.5725, 0.3837



27.8911, 0.1860, 0.1895

# 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.



28.6978, 0.1250, 0.1462



28.6978, 0.5725, 0.3837



28.6978, 0.1144, 0.2810

# Square

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



28.6978, 0.5725, 0.3837



28.6978, 0.2750, 0.5900



28.6978, 0.1026, 0.1836



28.6978, 0.2958, 0.1750



# Rectangle

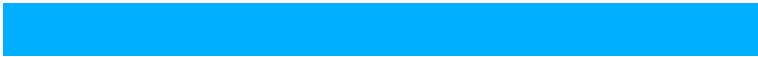
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



28.6978, 0.5725, 0.3837



28.6978, 0.4318, 0.5429



28.6978, 0.1026, 0.1836



28.6978, 0.1602, 0.1425

# Sweetspot

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



28.6999, 0.5724, 0.3837



70.1768, 0.3711, 0.3609



21.9184, 0.4570, 0.2291



14.2679, 0.3815, 0.3655



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.



28.6999, 0.5724, 0.3837



30.8059, 0.5727, 0.3834



72.1756, 0.4384, 0.4901



17.5728, 0.3284, 0.3385



15.4387, 0.5695, 0.3860



1.5524, 0.5466, 0.4042

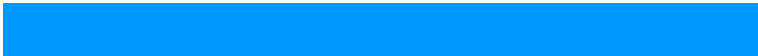


# Inverse Universe

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



27.8911, 0.1860, 0.1895



29.9308, 0.1859, 0.1892



7.3978, 0.1515, 0.0654



17.5782, 0.2980, 0.3193



15.0364, 0.1867, 0.1920



1.5224, 0.1919, 0.2109



# Previews

## White Background



This preview shows how the Yxy color 28.6978, 0.5725, 0.3837 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 28.6978, 0.5725, 0.3837 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 28.6978, 0.5725, 0.3837**

## Background



This preview shows how black text looks on a background with the Yxy color 28.6978, 0.5725, 0.3837.



This preview shows how white text looks on a background with the Yxy color 28.6978, 0.5725, 0.3837.

# 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

28.6978, 0.5725, 0.3837

### Protanopia

28.9327, 0.4344, 0.4812

### Deuteranopia

28.7795, 0.4714, 0.4639



## Tritanopia

28.6759, 0.5097, 0.3241

# Trichromacy



## Original Color

28.6978, 0.5725, 0.3837

## Protanomaly

27.6019, 0.4904, 0.4427

## Deuteranomaly

27.8252, 0.5137, 0.4303

## Tritanomaly

28.4887, 0.5465, 0.3565

# Monochromacy



## Original Color

28.6978, 0.5725, 0.3837

## Achromatopsia

23.0740, 0.3127, 0.3290

## Achromatomaly

23.0717, 0.4272, 0.3824

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.6978, 0.5725, 0.3837 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(247, 99, 0)` looks like.

```
.text, #text, p{  
    color:rgb(247, 99, 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(247, 99, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 99, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 28.6978, 0.5725, 0.3837 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(247, 99, 0) }
```

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

```
.border{ border-color:rgb(247, 99, 0) }
```

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

Here you see how a box with a 4 pixel rgb(247, 99, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 99, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 99, 0);  
box-shadow:4px 4px 4px 4px rgb(247, 99, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 28.6978, 0.5725, 0.3837 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 99, 0) }
```

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

```
.background{ background-color: rgb(247, 99,  
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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