

# Converting Colors

$Y_{xy}(27.9400, 0.5900, 0.3698)$

Have a look what the booklet for  
Yxy(27.9400, 0.5900, 0.3698)  
contains.

<b>Yxy(27.9156, 0.5901, 0.3696)</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(27.9156, 0.5901, 0.3696)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF5600
RGB	255, 86, 0
RGB Percent	100%, 34%, 0%
CMY	0.0000, 0.6627, 0.9993
CMYK	0.00, 0.66, 1.00, 0.00
HSL	20°, 100%, 50%
HSV	20°, 100%, 100%
XYZ	44.5698, 27.9156, 3.0438
YIQ	126.7270, 128.3300, 9.0820

# Conversions

## Conversions Part 2

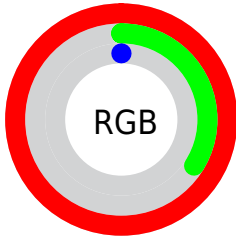
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 130, 0
Decimal	16733696
CIELab	59.81, 61.67, 70.01
CIELCh	60, 93.303, 48.623
Yxy	27.9156, 0.5901, 0.3696
Android (android.graphics.Color)	4294923776 (0xFFFF5600)
YUV	126.7270, -62.4764, 112.4954
Hunter-Lab	52.8352, 58.1142, 33.5690

# Details

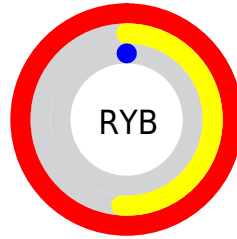
The Yxy color **27.9156, 0.5901, 0.3696** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated red. A complement of this color would be **35.6580, 0.1924, 0.2126**, and the grayscale version is **21.3173, 0.3127, 0.3290**.

A 20% lighter version of the original color is **41.2983, 0.5018, 0.3981**, and **11.2197, 0.6333, 0.3354** is the 20% darker color. If you saturate the color by 10%, you get **27.8985, 0.5902, 0.3695**, and if you desaturate by 10%, it is **31.0166, 0.5657, 0.3792**.

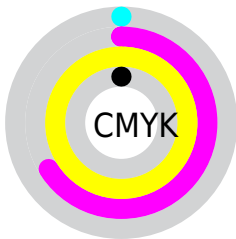
# Distribution



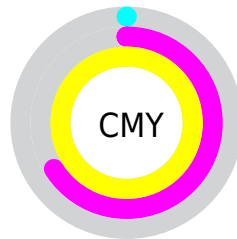
- Red (100%)
- Green (34%)
- Blue (0%)



- Red (100%)
- Yellow (51%)
- Blue (0%)



- Cyan (0%)
- Magenta (66%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (66%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 27.9156, 0.5901, 0.3696 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 27.9156, 0.5901, 0.3696 by changing the saturation by 10% instead.





 27.9156, 0.5901,  
0.3696


 27.9156, 0.5901,  
0.3696

292.0634, 0.4534,  
0.3721


 18.2620, 0.6178,  
0.3602


 56.3497, 0.5443,  
0.3772

 11.1383, 0.6534,  
0.3466


 75.8990, 0.5257,  
0.3780

 6.1599, 0.6824,  
0.3176

 99.5156, 0.5094,  
0.3779

 2.9426, 0.7226,  
0.2774

 127.5841, 0.4953,  
0.3772

 1.1018, 0.7811,  
0.2189

 160.4887, 0.4828,  
0.3761

 0.0000, 1.0000,  
0.0000


 198.6138, 0.4718,


 0.0000, 0.0000,


0.3749


0.0000

 242.3439, 0.4621,  
0.3735


 27.9156, 0.5901,  
0.3696


 27.9156, 0.5901,  
0.3696


 27.8985, 0.5902,  
0.3695

 31.0166, 0.5657,  
0.3792

 34.8914, 0.5348,  
0.3845

 39.6075, 0.4999,  
0.3846

 45.2174, 0.4642,  
0.3806

 51.7686, 0.4302,  
0.3737

■ 59.3050, 0.3994,  
0.3651

■ 67.8673, 0.3724,  
0.3558

■ 77.4936, 0.3492,  
0.3465

■ 88.2203, 0.3294,  
0.3374

# Harmonies

## Analogous

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



27.9156, 0.5650, 0.2898



27.9156, 0.5901, 0.3696



27.9156, 0.5212, 0.4652

# Triad

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



27.9156, 0.5901, 0.3696



27.9156, 0.1735, 0.4889



27.9156, 0.1677, 0.1358

# Complementary

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



27.9156, 0.5901, 0.3696



35.6580, 0.1924, 0.2126

# 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.



27.9156, 0.1118, 0.1399



27.9156, 0.5901, 0.3696



27.9156, 0.1090, 0.2954

# Square

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



27.9156, 0.5901, 0.3696



27.9156, 0.2844, 0.6167



27.9156, 0.0931, 0.1835



27.9156, 0.2756, 0.1620



# Rectangle

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



27.9156, 0.5901, 0.3696



27.9156, 0.4480, 0.5374



27.9156, 0.0931, 0.1835



27.9156, 0.1441, 0.1337

# Sweetspot

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



27.9165, 0.5901, 0.3696



67.8076, 0.3726, 0.3559



24.1680, 0.4298, 0.2142



13.7142, 0.3835, 0.3599



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.



27.9165, 0.5901, 0.3696



27.8985, 0.5902, 0.3695



68.6117, 0.4528, 0.4786



18.9869, 0.3286, 0.3371



14.8231, 0.5873, 0.3719

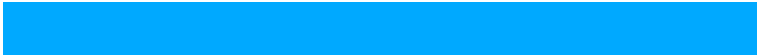


1.6355, 0.5653, 0.3893

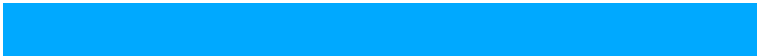


# Inverse Universe

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



35.6580, 0.1924, 0.2126



35.6359, 0.1924, 0.2125



8.9227, 0.1535, 0.0724



19.3902, 0.2980, 0.3208



18.9076, 0.1930, 0.2146



2.0430, 0.1970, 0.2292



# Previews

## White Background



This preview shows how the Yxy color 27.9156, 0.5901, 0.3696 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 27.9156, 0.5901, 0.3696 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 27.9156, 0.5901, 0.3696**

## Background



This preview shows how black text looks on a background with the Yxy color 27.9156, 0.5901, 0.3696.



This preview shows how white text looks on a background with the Yxy color 27.9156, 0.5901, 0.3696.

# 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

27.9156, 0.5901, 0.3696

### Protanopia

28.1165, 0.4334, 0.4792

### Deuteranopia

27.8364, 0.4709, 0.4643



## Tritanopia

27.9665, 0.5361, 0.3264

# Trichromacy



## Original Color

27.9156, 0.5901, 0.3696

## Protanomaly

26.1915, 0.4990, 0.4346

## Deuteranomaly

26.5122, 0.5229, 0.4230

## Tritanomaly

27.7223, 0.5675, 0.3494

# Monochromacy



## Original Color

27.9156, 0.5901, 0.3696

## Achromatopsia

21.2231, 0.3127, 0.3290

## Achromatomaly

21.1811, 0.4379, 0.3750

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 27.9156, 0.5901, 0.3696 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, 86, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 86, 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, 86, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 86, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 27.9156, 0.5901, 0.3696 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, 86, 0) }
```

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

```
.border{ border-color:rgb(255, 86, 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, 86, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 86, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 86, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 86, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 27.9156, 0.5901, 0.3696 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 86, 0) }
```

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

```
.background{ background-color: rgb(255, 86,  
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