

# Converting Colors

$Y_{xy}(27.5119, 0.5927, 0.3676)$

Have a look what the booklet for  
Yxy(27.5119, 0.5927, 0.3676)  
contains.

<b>Yxy(27.4465, 0.5932, 0.3672)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	22
<b>Color Blindness Simulation</b> .....	25
<b>CSS Examples</b> .....	28

**Color**

**Yxy(27.4465, 0.5932, 0.3672)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF5300
RGB	255, 83, 0
RGB Percent	100%, 33%, 0%
CMY	0.0000, 0.6746, 1.0000
CMYK	0.00, 0.67, 1.00, 0.00
HSL	20°, 100%, 50%
HSV	20°, 100%, 100%
XYZ	44.3390, 27.4465, 2.9599
YIQ	124.9660, 129.1550, 10.6510

# Conversions

## Conversions Part 2

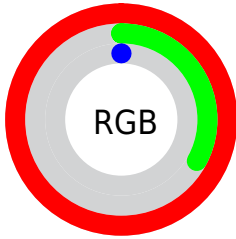
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	255, 123, 0
Decimal	16732928
CIE <sub>Lab</sub>	59.39, 62.84, 69.84
CIE <sub>LCh</sub>	59, 93.951, 48.018
Yxy	27.4465, 0.5932, 0.3672
Android (android.graphics.Color)	4294923008 (0xFFFF5300)
YUV	124.9660, -61.6082, 114.0398
Hunter-Lab	52.3894, 59.3892, 33.3228

# Details

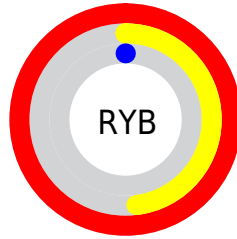
The Yxy color **27.4465, 0.5932, 0.3672** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated red. A complement of this color would be **36.7305, 0.1935, 0.2167**, and the grayscale version is **20.6716, 0.3127, 0.3290**.

A 20% lighter version of the original color is **40.3978, 0.5054, 0.3959**, and **10.9708, 0.6375, 0.3320** is the 20% darker color. If you saturate the color by 10%, you get **27.4443, 0.5932, 0.3672**, and if you desaturate by 10%, it is **30.4826, 0.5686, 0.3769**.

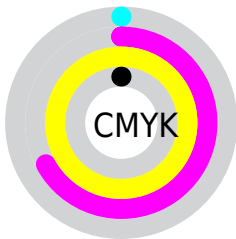
# Distribution



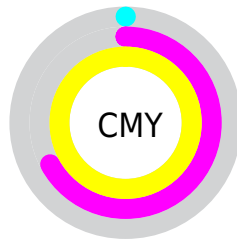
- Red (100%)
- Green (33%)
- Blue (0%)



- Red (100%)
- Yellow (48%)
- Blue (0%)



- Cyan (0%)
- Magenta (67%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (67%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 27.4465, 0.5932, 0.3672 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 27.4465, 0.5932, 0.3672 by changing the saturation by 10% instead.





 27.4465, 0.5932,  
0.3672


 27.4465, 0.5932,  
0.3672


289.8125, 0.4547,  
0.3713


 17.9088, 0.6212,  
0.3573


 55.5995, 0.5467,  
0.3754


 10.8846, 0.6571,  
0.3429


 74.9837, 0.5279,  
0.3765


 5.9893, 0.6867,  
0.3133

 98.4188, 0.5114,  
0.3765

 2.8386, 0.7280,  
0.2720

 126.2893, 0.4970,  
0.3760

 1.0480, 0.7876,  
0.2124

 158.9795, 0.4844,  
0.3750


 0.0000, 1.0000,  
0.0000


 196.8738, 0.4733,

 0.0000, 0.0000,

0.3739

0.0000


 240.3567, 0.4635,  
0.3726

 27.4465, 0.5932,  
0.3672


 27.4465, 0.5932,  
0.3672


 27.4443, 0.5932,  
0.3672

 30.4826, 0.5686,  
0.3769

 34.3123, 0.5374,  
0.3822

 39.0025, 0.5020,  
0.3826

 44.6081, 0.4657,  
0.3789

 51.1786, 0.4313,  
0.3723

■ 58.7596, 0.4001,  
0.3640

■ 67.3935, 0.3728,  
0.3550

■ 77.1200, 0.3494,  
0.3460

■ 87.9770, 0.3295,  
0.3372

# Harmonies

## Analogous

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



27.4465, 0.5661, 0.2874



27.4465, 0.5932, 0.3672



27.4465, 0.5244, 0.4632

# Triad

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



27.4465, 0.5932, 0.3672



27.4465, 0.1736, 0.4953



27.4465, 0.1647, 0.1340

# Complementary

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



27.4465, 0.5932, 0.3672



36.7305, 0.1935, 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.



27.4465, 0.1095, 0.1388



27.4465, 0.5932, 0.3672



27.4465, 0.1079, 0.2979

# Square

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



27.4465, 0.5932, 0.3672



27.4465, 0.2857, 0.6211



27.4465, 0.0914, 0.1833



27.4465, 0.2723, 0.1598



# Rectangle

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



27.4465, 0.5932, 0.3672



27.4465, 0.4507, 0.5365



27.4465, 0.0914, 0.1833



27.4465, 0.1414, 0.1321

# Sweetspot

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



27.4443, 0.5932, 0.3672



67.3935, 0.3728, 0.3550



24.3258, 0.4233, 0.2106



13.6178, 0.3839, 0.3588



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.



27.4443, 0.5932, 0.3672



66.4938, 0.4567, 0.4756



18.9523, 0.3286, 0.3368



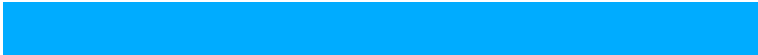
14.5801, 0.5902, 0.3696



1.6087, 0.5682, 0.3870

# Inverse Universe

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



36.7305, 0.1935, 0.2167



9.2331, 0.1541, 0.0747



19.4264, 0.2980, 0.3211



19.4760, 0.1941, 0.2187



2.0953, 0.1980, 0.2328

# Previews

## White Background



This preview shows how the Yxy color 27.4465, 0.5932, 0.3672 looks on a white background.

## Color Contrast Check

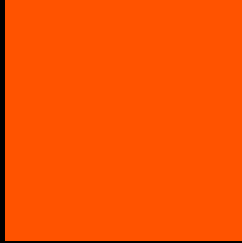
Large Text (above 18pt) WCAG AA ✓ Pass

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 27.4465, 0.5932, 0.3672 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 27.4465, 0.5932, 0.3672**

## Background



This preview shows how black text looks on a background with the Yxy color 27.4465, 0.5932, 0.3672.



This preview shows how white text looks on a background with the Yxy color 27.4465, 0.5932, 0.3672.



# 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

27.4465, 0.5932, 0.3672

### Protanopia

27.6027, 0.4323, 0.4798

### Deuteranopia

27.4321, 0.4713, 0.4640



## Tritanopia

27.4765, 0.5418, 0.3265

# Trichromacy



## Original Color

27.4465, 0.5932, 0.3672

## Protanomaly

25.5616, 0.5008, 0.4330

## Deuteranomaly

26.1325, 0.5235, 0.4226

## Tritanomaly

27.2544, 0.5717, 0.3482

# Monochromacy



## Original Color

27.4465, 0.5932, 0.3672

## Achromatopsia

20.5079, 0.3127, 0.3290

## Achromatomaly

20.5017, 0.4385, 0.3740

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 27.4465, 0.5932, 0.3672 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, 83, 0)` looks like.

```
.text, #text, p{  
  color:rgb(255, 83, 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, 83, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 83, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 27.4465, 0.5932, 0.3672 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, 83, 0) }
```

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

```
.border{ border-color:rgb(255, 83, 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, 83, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 83, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 83, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 83, 0)  
}
```

# Background

The CSS property to change the background color of an element to Yxy 27.4465, 0.5932, 0.3672 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 83, 0) }
```

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

```
.background{ background-color: rgb(255, 83,  
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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