

# Converting Colors

$Y_{xy}(36.2337, 0.5415, 0.4019)$

Have a look what the booklet for  
Yxy(36.2337, 0.5415, 0.4019)  
contains.

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# **Color**

**Yxy(36.2322, 0.5417, 0.4019)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7E14
RGB	255, 126, 20
RGB Percent	100%, 49%, 8%
CMY	0.0000, 0.5059, 0.9213
CMYK	0.00, 0.51, 0.92, 0.00
HSL	27°, 100%, 54%
HSV	27°, 92%, 100%
XYZ	48.8355, 36.2322, 5.0846
YIQ	152.4870, 110.9100, -5.6180

# Conversions

## Conversions Part 2

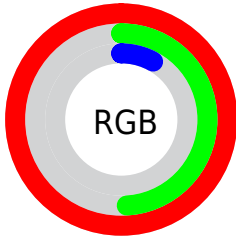
Format	Color
R <sub>Y</sub> B	255, 213, 20
Decimal	16743956
CIE Lab	66.70, 44.02, 70.56
CIE LCh	67, 83.163, 58.043
Yxy	36.2322, 0.5417, 0.4019
Android (android.graphics.Color)	4294934036 (0xFFFF7E14)
YUV	152.4870, -65.3161, 89.9039
Hunter-Lab	60.1932, 39.4812, 37.1269

# Details

The Yxy color **36.2322, 0.5417, 0.4019** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark washed orange. A complement of this color would be **28.8921, 0.1858, 0.1844**, and the grayscale version is **31.8729, 0.3127, 0.3290**.

A 20% lighter version of the original color is **54.8869, 0.4584, 0.4249**, and **15.9739, 0.5736, 0.3828** is the 20% darker color. If you saturate the color by 10%, you get **33.5128, 0.5582, 0.3950**, and if you desaturate by 10%, it is **40.2071, 0.5166, 0.4065**.

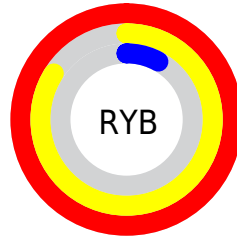
# Distribution



Red (100%)

Green (49%)

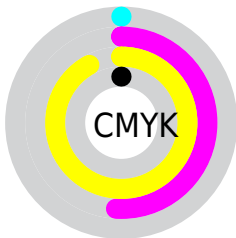
Blue (8%)



Red (100%)

Yellow (84%)

Blue (8%)

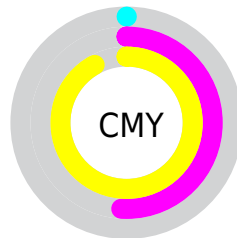


Cyan (0%)

Magenta (51%)

Yellow (92%)

Black (0%)



Cyan (0%)

Magenta (51%)


Yellow (92%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.2322, 0.5417, 0.4019 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 36.2322, 0.5417, 0.4019 by changing the saturation by 10% instead.





 36.2322, 0.5417,  
0.4019


 36.2322, 0.5417,  
0.4019


329.9743, 0.4322,  
0.3827

 24.6136, 0.5638,  
0.3999


 69.3903, 0.5052,  
0.4000


 15.7894, 0.5887,  
0.3939


 91.6986, 0.4904,  
0.3977


 9.3752, 0.6179,  
0.3821

 118.3389, 0.4774,  
0.3952

 4.9867, 0.6439,  
0.3561

 149.6956, 0.4661,  
0.3926

 2.2395, 0.6823,  
0.3177

 186.1531, 0.4560,  
0.3899

 0.7414, 0.7454,  
0.2546

 228.0958, 0.4471,

 0.0000, 1.0000,

0.3874

0.0000

275.9080, 0.4392,  
0.3850

0.0000, 0.0000,  
0.0000

36.2322, 0.5417,  
0.4019

36.2322, 0.5417,  
0.4019

33.5128, 0.5582,  
0.3950

40.2071, 0.5166,  
0.4065

44.8249, 0.4879,  
0.4055


50.1194, 0.4577,  
0.3998


56.1233, 0.4281,  
0.3907

62.8667, 0.4002,  
0.3795

 70.3774, 0.3750,  
0.3673

 78.6817, 0.3526,  
0.3549

 87.8043, 0.3330,  
0.3428

 97.7688, 0.3160,  
0.3313

# Harmonies

## Analogous

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



36.2322, 0.5406, 0.3243



36.2322, 0.5417, 0.4019



36.2322, 0.4743, 0.4872

# Triad

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



36.2322, 0.5417, 0.4019



36.2322, 0.1747, 0.4076



36.2322, 0.2135, 0.1644

# Complementary

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



36.2322, 0.5417, 0.4019



28.8921, 0.1858, 0.1844

# 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.



36.2322, 0.1486, 0.1601



36.2322, 0.5417, 0.4019



36.2322, 0.1276, 0.2682

# Square

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



36.2322, 0.5417, 0.4019



36.2322, 0.2651, 0.5405



36.2322, 0.1213, 0.1895



36.2322, 0.3220, 0.1971



# Rectangle

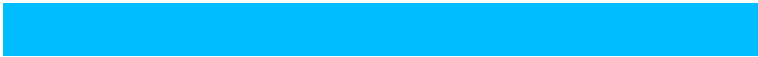
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



36.2322, 0.5417, 0.4019



36.2322, 0.4091, 0.5390



36.2322, 0.1213, 0.1895



36.2322, 0.1871, 0.1597

# Sweetspot

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



36.2289, 0.5417, 0.4019



73.7078, 0.3654, 0.3622



23.9419, 0.4621, 0.2357



15.0320, 0.3754, 0.3676



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.



36.2289, 0.5417, 0.4019



33.5128, 0.5582, 0.3950



85.5639, 0.4264, 0.4964



19.3356, 0.3283, 0.3398



17.7998, 0.5555, 0.3972



1.9477, 0.5361, 0.4125

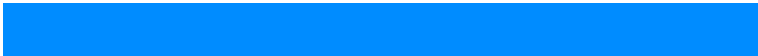


# Inverse Universe

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



28.8921, 0.1858, 0.1844



25.9872, 0.1810, 0.1714



8.3928, 0.1539, 0.0685



19.0315, 0.2979, 0.3180



13.8815, 0.1817, 0.1741



1.5699, 0.1870, 0.1932



# Previews

## White Background



This preview shows how the Yxy color 36.2322, 0.5417, 0.4019 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 36.2322, 0.5417, 0.4019 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 ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 36.2322, 0.5417, 0.4019**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.2322, 0.5417, 0.4019.



This preview shows how white text looks on a background with the Yxy color 36.2322, 0.5417, 0.4019.

# 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

36.2322, 0.5417, 0.4019

### Protanopia

36.3606, 0.4336, 0.4796

### Deuteranopia

36.2330, 0.4727, 0.4628



## Tritanopia

36.2252, 0.4609, 0.3224

# Trichromacy



## Original Color

36.2322, 0.5417, 0.4019

## Protanomaly

35.4471, 0.4749, 0.4501

## Deuteranomaly

35.8092, 0.4999, 0.4392

## Tritanomaly

35.8836, 0.5028, 0.3611

# Monochromacy



## Original Color

36.2322, 0.5417, 0.4019

## Achromatopsia

31.3989, 0.3127, 0.3290

## Achromatomaly

31.4632, 0.4053, 0.3828

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.2322, 0.5417, 0.4019 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, 126, 20)` looks like.

```
.text, #text, p{  
    color:rgb(255, 126, 20)  
}
```

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, 126, 20) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 126, 20) }
```

## Border

The CSS property to change the border of an element to Yxy 36.2322, 0.5417, 0.4019 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, 126, 20) }
```

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

```
.border{ border-color:rgb(255, 126, 20) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 126, 20)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 126, 20); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 126, 20);  
box-shadow:4px 4px 4px 4px rgb(255, 126,  
20) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.2322, 0.5417, 0.4019 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 126, 20) }
```

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

```
.background{ background-color: rgb(255,  
126, 20) }
```

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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