

# Converting Colors

$Y_{xy}(30.8279, 0.5554, 0.3972)$

Have a look what the booklet for  
Yxy(30.8279, 0.5554, 0.3972)  
contains.

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# Color

**Yxy(30.8214, 0.5554, 0.3972)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F47000
RGB	244, 112, 0
RGB Percent	96%, 44%, 0%
CMY	0.0432, 0.5607, 0.9999
CMYK	0.00, 0.54, 1.00, 0.04
HSL	28°, 100%, 48%
HSV	28°, 100%, 96%
XYZ	43.0972, 30.8214, 3.6781
YIQ	138.7000, 114.6240, -6.8480

# Conversions

## Conversions Part 2

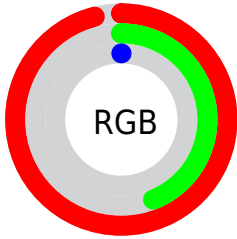
Format	Color
R <sub>Y</sub> B	244, 207, 0
Decimal	16019456
CIE Lab	62.36, 46.38, 70.45
CIE LCh	62, 84.343, 56.639
Yxy	30.8214, 0.5554, 0.3972
Android (android.graphics.Color)	4294209536 (0xFFFF47000)
YUV	138.7000, -68.3791, 92.3481
Hunter-Lab	55.5170, 41.4126, 34.9339

# Details

The Yxy color **30.8214, 0.5554, 0.3972** 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 **23.0267, 0.1803, 0.1689**, and the grayscale version is **25.9361, 0.3127, 0.3290**.

A 20% lighter version of the original color is **48.9621, 0.4780, 0.4183**, and **12.8312, 0.5889, 0.3706** is the 20% darker color. If you saturate the color by 10%, you get **30.8204, 0.5554, 0.3972**, and if you desaturate by 10%, it is **34.0203, 0.5341, 0.4053**.

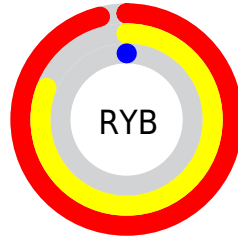
# Distribution



Red (96%)

Green (44%)

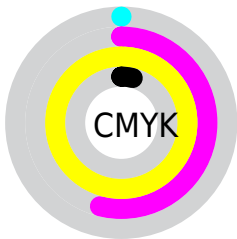
Blue (0%)



Red (96%)

Yellow (81%)

Blue (0%)

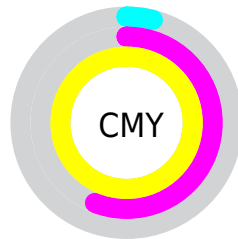


Cyan (0%)

Magenta (54%)

Yellow (100%)

Black (4%)



Cyan (4%)

Magenta (56%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.8214, 0.5554, 0.3972 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 30.8214, 0.5554, 0.3972 by changing the saturation by 10% instead.





 30.8214, 0.5554,  
0.3972


 30.8214, 0.5554,  
0.3972


305.7147, 0.4373,  
0.3820

 20.4629, 0.5792,  
0.3930


 60.9588, 0.5160,  
0.3976


 12.7320, 0.6089,  
0.3856


 81.5064, 0.4999,  
0.3959


 7.2442, 0.6346,  
0.3654


 106.2192, 0.4859,  
0.3938

 3.6153, 0.6662,  
0.3338

 135.4816, 0.4736,  
0.3914

 1.4608, 0.7139,  
0.2861

 169.6780, 0.4628,  
0.3890


 0.2609, 0.8521,  
0.1479

 209.1927, 0.4533,

 0.0000, 1.0000,


0.3866

0.0000

 254.4101, 0.4448,  
0.3842

 0.0000, 0.0000,  
0.0000

 30.8214, 0.5554,  
0.3972


 30.8214, 0.5554,  
0.3972


 30.8204, 0.5554,  
0.3972

 34.0203, 0.5341,  
0.4053

 37.7466, 0.5084,  
0.4083

 42.0447, 0.4797,  
0.4060

 46.9460, 0.4499,  
0.3992

 52.4786, 0.4210,  
0.3894

■ 58.6682, 0.3940,  
0.3777

■ 65.5388, 0.3696,  
0.3652

■ 73.1131, 0.3480,  
0.3527

■ 81.4123, 0.3291,  
0.3405

# Harmonies

## Analogous

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



30.8214, 0.5529, 0.3178



30.8214, 0.5554, 0.3972



30.8214, 0.4841, 0.4876

# Triad

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



30.8214, 0.5554, 0.3972



30.8214, 0.1693, 0.4209



30.8214, 0.2034, 0.1556

# Complementary

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



30.8214, 0.5554, 0.3972



23.0267, 0.1803, 0.1689

# 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.



30.8214, 0.1385, 0.1523



30.8214, 0.5554, 0.3972



30.8214, 0.1195, 0.2682

# Square

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



30.8214, 0.5554, 0.3972



30.8214, 0.2648, 0.5620



30.8214, 0.1121, 0.1837



30.8214, 0.3156, 0.1881



# Rectangle

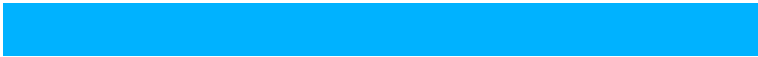
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



30.8214, 0.5554, 0.3972



30.8214, 0.4154, 0.5460



30.8214, 0.1121, 0.1837



30.8214, 0.1768, 0.1512

# Sweetspot

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



30.8231, 0.5554, 0.3972



72.3964, 0.3698, 0.3653



20.9566, 0.4781, 0.2407



14.7892, 0.3798, 0.3706



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.



30.8231, 0.5554, 0.3972



33.9995, 0.5558, 0.3969



76.8193, 0.4285, 0.4980



17.7361, 0.3282, 0.3399



17.0280, 0.5527, 0.3993



1.6997, 0.5318, 0.4159

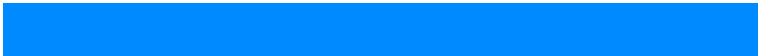


# Inverse Universe

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



23.0267, 0.1803, 0.1689



25.3762, 0.1802, 0.1685



6.7988, 0.1506, 0.0622



17.4118, 0.2980, 0.3179



12.7983, 0.1810, 0.1716



1.3303, 0.1869, 0.1928



# Previews

## White Background



This preview shows how the Yxy color 30.8214, 0.5554, 0.3972 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 30.8214, 0.5554, 0.3972 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 30.8214, 0.5554, 0.3972**

## Background



This preview shows how black text looks on a background with the Yxy color 30.8214, 0.5554, 0.3972.



This preview shows how white text looks on a background with the Yxy color 30.8214, 0.5554, 0.3972.

# 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

30.8214, 0.5554, 0.3972

### Protanopia

31.0604, 0.4347, 0.4831

### Deuteranopia

31.0229, 0.4709, 0.4643



## Tritanopia

30.8225, 0.4833, 0.3226

# Trichromacy



## Original Color

30.8214, 0.5554, 0.3972

## Protanomaly

29.7933, 0.4833, 0.4492

## Deuteranomaly

30.2042, 0.5046, 0.4376

## Tritanomaly

30.5632, 0.5256, 0.3618

# Monochromacy



## Original Color

30.8214, 0.5554, 0.3972

## Achromatopsia

25.8183, 0.3127, 0.3290

## Achromatomaly

25.7522, 0.4189, 0.3888

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.8214, 0.5554, 0.3972 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(244, 112, 0)` looks like.

```
.text, #text, p{  
    color:rgb(244, 112, 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(244, 112, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(244, 112, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 30.8214, 0.5554, 0.3972 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(244, 112, 0) }
```

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

```
.border{ border-color:rgb(244, 112, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(244, 112, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(244, 112, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(244, 112, 0);  
box-shadow:4px 4px 4px 4px rgb(244, 112,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.8214, 0.5554, 0.3972 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(244, 112, 0) }
```

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

```
.background{ background-color: rgb(244,  
112, 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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