

# Converting Colors

$Y_{xy}(42.2752, 0.5231, 0.4018)$

Have a look what the booklet for  
Yxy(42.2752, 0.5231, 0.4018)  
contains.

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# Color

**Yxy(40.2214, 0.5159, 0.4058)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8C2F
RGB	255, 140, 47
RGB Percent	100%, 55%, 18%
CMY	0.0000, 0.4510, 0.8156
CMYK	0.00, 0.45, 0.82, 0.00
HSL	27°, 100%, 59%
HSV	27°, 82%, 100%
XYZ	51.1341, 40.2214, 7.7608
YIQ	163.7830, 98.3930, -4.5430

# Conversions

## Conversions Part 2

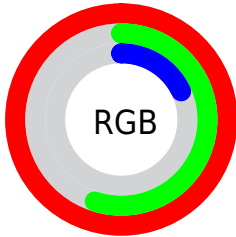
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 215, 47
Decimal	16747567
CIE Lab	69.63, 37.57, 64.71
CIE LCh	70, 74.827, 59.857
Yxy	40.2214, 0.5159, 0.4058
Android (android.graphics.Color)	4294937647 (0xFFFF8C2F)
YUV	163.7830, -57.5740, 79.9973
Hunter-Lab	63.4203, 32.9341, 37.1389

# Details

The Yxy color **40.2214, 0.5159, 0.4058** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **33.6766, 0.1946, 0.2038**, and the grayscale version is **37.2611, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.2298, 0.4348, 0.4219**, and **18.1859, 0.5533, 0.3989** is the 20% darker color. If you saturate the color by 10%, you get **36.2124, 0.5414, 0.4015**, and if you desaturate by 10%, it is **44.8797, 0.4868, 0.4046**.

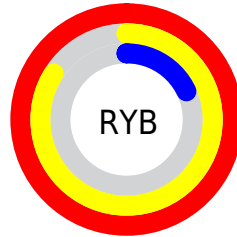
# Distribution



Red (100%)

Green (55%)

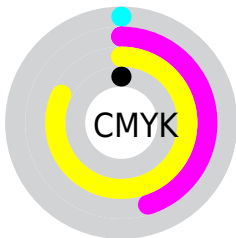
Blue (18%)



Red (100%)

Yellow (84%)

Blue (18%)

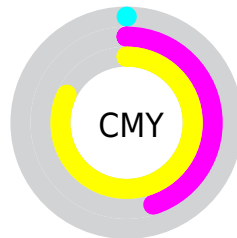


Cyan (0%)

Magenta (45%)

Yellow (82%)

Black (0%)



Cyan (0%)

Magenta (45%)


Yellow (82%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.2214, 0.5159, 0.4058 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 40.2214, 0.5159, 0.4058 by changing the saturation by 10% instead.





 40.2214, 0.5159,  
0.4058


 40.2214, 0.5159,  
0.4058

347.0559, 0.4182,  
0.3804


 27.7112, 0.5365,  
0.4069


 75.5005, 0.4828,  
0.4004


 18.1081, 0.5601,  
0.4053


 99.0383, 0.4695,  
0.3972


 11.0276, 0.5898,  
0.4010


 127.0206, 0.4580,  
0.3940

 6.0854, 0.6163,  
0.3837

 159.8320, 0.4480,  
0.3910

 2.8971, 0.6470,  
0.3530

 197.8569, 0.4391,  
0.3881

 1.0782, 0.6958,  
0.3042

 241.4795, 0.4313,

 0.0000, 1.0000,

0.3853

0.0000

291.0844, 0.4244,  
0.3828

■ 0.0000, 0.0000,  
0.0000

■ 40.2214, 0.5159,  
0.4058

■ 40.2214, 0.5159,  
0.4058

■ 36.2124, 0.5414,  
0.4015

■ 44.8797, 0.4868,  
0.4046

■ 33.2933, 0.5593,  
0.3941

■ 50.2225, 0.4565,  
0.3988


■ 56.2835, 0.4267,  
0.3896

■ 63.0931, 0.3989,  
0.3785

■ 70.6793, 0.3737,  
0.3663

 79.0685, 0.3514,  
0.3540

 88.2859, 0.3320,  
0.3420

 98.3551, 0.3151,  
0.3307

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



40.2214, 0.5150, 0.3333



40.2214, 0.5159, 0.4058



40.2214, 0.4571, 0.4802

# Triad

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



40.2214, 0.5159, 0.4058



40.2214, 0.1877, 0.3897



40.2214, 0.2299, 0.1813

# Complementary

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



40.2214, 0.5159, 0.4058



33.6766, 0.1946, 0.2038

# 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.



40.2214, 0.1672, 0.1762



40.2214, 0.5159, 0.4058



40.2214, 0.1450, 0.2724

# Square

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



40.2214, 0.5159, 0.4058



40.2214, 0.2687, 0.5040



40.2214, 0.1397, 0.2029



40.2214, 0.3288, 0.2131



# Rectangle

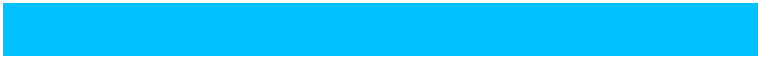
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



40.2214, 0.5159, 0.4058



40.2214, 0.3989, 0.5199



40.2214, 0.1397, 0.2029



40.2214, 0.2048, 0.1765

# Sweetspot

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



40.2220, 0.5159, 0.4058



76.9428, 0.3566, 0.3570



26.0078, 0.4339, 0.2301



15.8244, 0.3645, 0.3614



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.



40.2220, 0.5159, 0.4058



33.9505, 0.5552, 0.3959



84.4563, 0.4238, 0.4886



19.3239, 0.3283, 0.3397



17.6841, 0.5566, 0.3963



1.9360, 0.5371, 0.4117

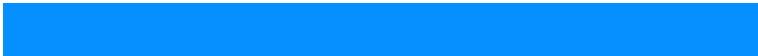


# Inverse Universe

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



33.6766, 0.1946, 0.2038



26.9837, 0.1825, 0.1760



11.1515, 0.1636, 0.0873



19.0434, 0.2979, 0.3181



14.0301, 0.1821, 0.1755



1.5842, 0.1873, 0.1944



# Previews

## White Background



This preview shows how the Yxy color 40.2214, 0.5159, 0.4058 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 40.2214, 0.5159, 0.4058 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 40.2214, 0.5159, 0.4058**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.2214, 0.5159, 0.4058.



This preview shows how white text looks on a background with the Yxy color 40.2214, 0.5159, 0.4058.

# 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

40.2214, 0.5159, 0.4058

### Protanopia

40.4780, 0.4237, 0.4668

### Deuteranopia

40.4277, 0.4630, 0.4533



## Tritanopia

40.2632, 0.4358, 0.3211

# Trichromacy



**Original Color**

40.2214, 0.5159, 0.4058

**Protanomaly**

39.6857, 0.4579, 0.4441

**Deuteranomaly**

40.0943, 0.4838, 0.4350

**Tritanomaly**

39.9299, 0.4728, 0.3582

# Monochromacy



**Original Color**

40.2214, 0.5159, 0.4058

**Achromatopsia**

37.1238, 0.3127, 0.3290

**Achromatomaly**

36.6935, 0.3896, 0.3742

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.2214, 0.5159, 0.4058 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, 140, 47)` looks like.

```
.text, #text, p{  
    color:rgb(255, 140, 47)  
}
```

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, 140, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 140, 47) }
```

## Border

The CSS property to change the border of an element to Yxy 40.2214, 0.5159, 0.4058 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, 140, 47) }
```

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

```
.border{ border-color:rgb(255, 140, 47) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 140, 47)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 140, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 140, 47);  
box-shadow:4px 4px 4px 4px rgb(255, 140,  
47) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.2214, 0.5159, 0.4058 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 140, 47) }
```

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

```
.background{ background-color: rgb(255,  
140, 47) }
```

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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