

# Converting Colors

Yxy(52.9433, 0.4764, 0.4382)

Have a look what the booklet for  
Yxy(52.9433, 0.4764, 0.4382)  
contains.

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# Color

**Yxy(52.9433, 0.4764, 0.4382)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB133
RGB	255, 177, 51
RGB Percent	100%, 69%, 20%
CMY	0.0000, 0.3058, 0.8000
CMYK	0.00, 0.31, 0.80, 0.00
HSL	37°, 100%, 60%
HSV	37°, 80%, 100%
XYZ	57.5586, 52.9433, 10.3180
YIQ	185.9580, 86.9340, -22.6500

# Conversions

## Conversions Part 2

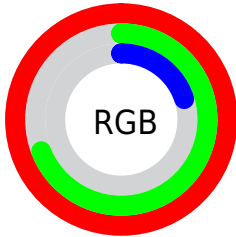
Format	Color
<a href="#">RYB</a>	<a href="#">177, 255, 51</a>
Decimal	<a href="#">16757043</a>
<a href="#">CIELab</a>	<a href="#">77.84, 18.53, 70.61</a>
<a href="#">CIElCh</a>	<a href="#">78, 73.005, 75.296</a>
<a href="#">Yxy</a>	<a href="#">52.9433, 0.4764, 0.4382</a>
<a href="#">Android (android.graphics.Color)</a>	<a href="#">4294947123 (0xFFFFB133)</a>
<a href="#">YUV</a>	<a href="#">185.9580, -66.5343, 60.5498</a>
<a href="#">Hunter-Lab</a>	<a href="#">72.7621, 13.8690, 42.5259</a>

# Details

The Yxy color **52.9433, 0.4764, 0.4382** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **23.6233, 0.1835, 0.1590**, and the grayscale version is **49.4237, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.6205, 0.4069, 0.4489**, and **26.0047, 0.4987, 0.4422** is the 20% darker color. If you saturate the color by 10%, you get **49.0643, 0.4943, 0.4386**, and if you desaturate by 10%, it is **57.2259, 0.4556, 0.4325**.

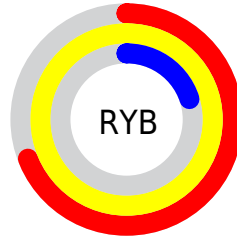
# Distribution



Red (100%)

Green (69%)

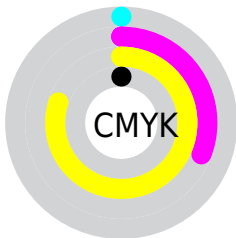
Blue (20%)



Red (69%)

Yellow (100%)

Blue (20%)

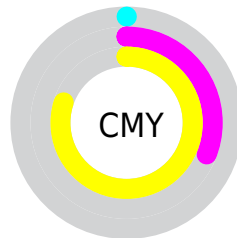


Cyan (0%)

Magenta (31%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (31%)


Yellow (80%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.9433, 0.4764, 0.4382 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 52.9433, 0.4764, 0.4382 by changing the saturation by 10% instead.





 52.9433, 0.4764,  
0.4382


 52.9433, 0.4764,  
0.4382


398.0675, 0.4027,  
0.3953

 37.7575, 0.4908,  
0.4444


 94.5209, 0.4524,  
0.4259

 25.7945, 0.5068,  
0.4499


 121.6816, 0.4425,  
0.4203

 16.6700, 0.5240,  
0.4534


 153.6026, 0.4338,  
0.4151

 9.9995, 0.5448,  
0.4552

 190.6684, 0.4261,  
0.4104

 5.3986, 0.5572,  
0.4428

 233.2634, 0.4192,  
0.4061

 2.4830, 0.5764,  
0.4236

 281.7720, 0.4131,

 0.8681, 0.6099,

0.4021

0.3901

336.5786, 0.4076,  
0.3986

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

52.9433, 0.4764,  
0.4382

52.9433, 0.4764,  
0.4382

49.0643, 0.4943,  
0.4386

57.2259, 0.4556,  
0.4325

45.5464, 0.5089,  
0.4342

61.9273, 0.4331,  
0.4224

45.5449, 0.5089,  
0.4342

67.0703, 0.4101,  
0.4091

72.6731, 0.3875,  
0.3936

78.7522, 0.3662,  
0.3772

85.3234, 0.3465,  
0.3606

92.4010, 0.3287,  
0.3444

99.9985, 0.3127,  
0.3290

99.9990, 0.3127,  
0.3290

# Harmonies

## Analogous

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



52.9433, 0.5035, 0.3701



52.9433, 0.4764, 0.4382



52.9433, 0.4070, 0.4957

# Triad

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



52.9433, 0.4764, 0.4382



52.9433, 0.1749, 0.3267



52.9433, 0.2812, 0.2060

# Complementary

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



52.9433, 0.4764, 0.4382



23.6233, 0.1835, 0.1590

# 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.



52.9433, 0.2057, 0.1883



52.9433, 0.4764, 0.4382



52.9433, 0.1527, 0.2415

# Square

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



52.9433, 0.4764, 0.4382



52.9433, 0.2334, 0.4366



52.9433, 0.1634, 0.1979



52.9433, 0.3805, 0.2471



# Rectangle

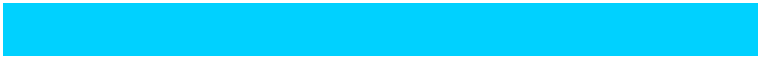
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



52.9433, 0.4764, 0.4382



52.9433, 0.3489, 0.5108



52.9433, 0.1634, 0.1979



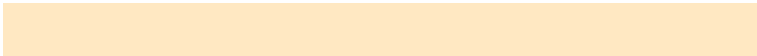
52.9433, 0.2525, 0.1973

# Sweetspot

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



52.9460, 0.4764, 0.4382



82.6357, 0.3542, 0.3673



25.2180, 0.4890, 0.2658



17.1893, 0.3613, 0.3732



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.



52.9460, 0.4764, 0.4382



46.9156, 0.5033, 0.4363



88.7775, 0.3970, 0.5080



19.8558, 0.3279, 0.3437



24.0970, 0.5070, 0.4356



2.5576, 0.4943, 0.4457



# Inverse Universe

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



23.6233, 0.1835, 0.1590



17.1443, 0.1687, 0.1252



11.0764, 0.1718, 0.0860



18.5161, 0.2979, 0.3139



8.5531, 0.1669, 0.1207



1.0361, 0.1731, 0.1432



# Previews

## White Background



This preview shows how the Yxy color 52.9433, 0.4764, 0.4382 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 52.9433, 0.4764, 0.4382 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 52.9433, 0.4764, 0.4382**

## **Background**



This preview shows how black text looks on a background with the Yxy color 52.9433, 0.4764, 0.4382.



This preview shows how white text looks on a background with the Yxy color 52.9433, 0.4764, 0.4382.

# 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

52.9433, 0.4764, 0.4382

### Protanopia

53.0147, 0.4277, 0.4716

### Deuteranopia

52.9576, 0.4614, 0.4518



## Tritanopia

52.9312, 0.3821, 0.3176

# Trichromacy



## Original Color

52.9433, 0.4764, 0.4382

## Protanomaly

52.6300, 0.4454, 0.4590

## Deuteranomaly

53.0437, 0.4670, 0.4469

## Tritanomaly

52.4585, 0.4246, 0.3699

# Monochromacy



## Original Color

52.9433, 0.4764, 0.4382

## Achromatopsia

49.1021, 0.3127, 0.3290

## Achromatomaly

49.5220, 0.3759, 0.3853

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.9433, 0.4764, 0.4382 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, 177, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 177, 51)  
}
```

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, 177, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 177, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 52.9433, 0.4764, 0.4382 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, 177, 51) }
```

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

```
.border{ border-color:rgb(255, 177, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 177, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 177, 51); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 177, 51); box-shadow:4px 4px 4px 4px rgb(255, 177, 51) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.9433, 0.4764, 0.4382 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 177, 51) }
```

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

```
.background{ background-color: rgb(255,  
177, 51) }
```

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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