

# Converting Colors

$Y_{xy}(52.8792, 0.4840, 0.4476)$

Have a look what the booklet for  
Yxy(52.8792, 0.4840, 0.4476)  
contains.

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# **Color**

**Yxy(52.7702, 0.4844, 0.4474)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB118
RGB	255, 177, 24
RGB Percent	100%, 69%, 9%
CMY	0.0000, 0.3059, 0.9054
CMYK	0.00, 0.31, 0.91, 0.00
HSL	40°, 100%, 55%
HSV	40°, 91%, 100%
XYZ	57.1343, 52.7702, 8.0441
YIQ	182.8800, 95.6010, -31.0470

# Conversions

## Conversions Part 2

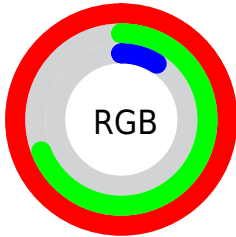
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	142, 255, 24
Decimal	16757016
CIE <sub>Lab</sub>	77.74, 17.93, 77.70
CIE <sub>LCh</sub>	78, 79.740, 77.006
Yxy	52.7702, 0.4844, 0.4474
Android (android.graphics.Color)	4294947096 (0xFFFFB118)
YUV	182.8800, -78.3278, 63.2492
Hunter-Lab	72.6431, 13.2661, 44.2847

# Details

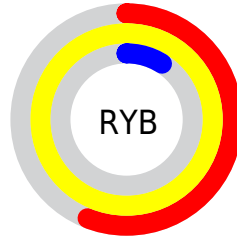
The Yxy color **52.7702, 0.4844, 0.4474** is a light color, and the websafe version is hex **FF9900**. The color can be described as light washed orange. A complement of this color would be **16.9414, 0.1695, 0.1239**, and the grayscale version is **47.6879, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.7114, 0.4160, 0.4610**, and **25.8737, 0.4977, 0.4430** is the 20% darker color. If you saturate the color by 10%, you get **49.5796, 0.4963, 0.4441**, and if you desaturate by 10%, it is **56.4406, 0.4688, 0.4463**.

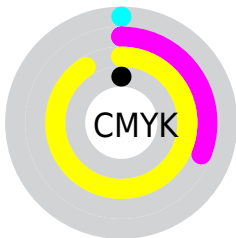
# Distribution



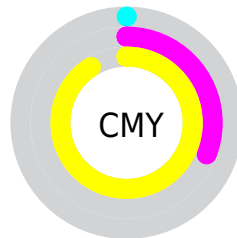
- Red (100%)
- Green (69%)
- Blue (9%)



- Red (56%)
- Yellow (100%)
- Blue (9%)



- Cyan (0%)
- Magenta (31%)
- Yellow (91%)
- Black (0%)




- Cyan (0%)
- Magenta (31%)
- Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.7702, 0.4844, 0.4474 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 52.7702, 0.4844, 0.4474 by changing the saturation by 10% instead.





 52.7702, 0.4844,  
0.4474

 52.7702, 0.4844,  
0.4474


397.4028, 0.4091,  
0.4025

 37.6194, 0.4982,  
0.4532


 94.2661, 0.4606,  
0.4351


 25.6874, 0.5129,  
0.4578


 121.3800, 0.4506,  
0.4293


 16.5899, 0.5299,  
0.4612

 153.2504, 0.4416,  
0.4239

 9.9426, 0.5431,  
0.4569

 190.2616, 0.4336,  
0.4188

 5.3609, 0.5552,  
0.4448

 232.7980, 0.4265,  
0.4142

 2.4605, 0.5740,  
0.4260

 281.2441, 0.4201,

 0.8568, 0.6068,

0.4100

0.3932

335.9843, 0.4143,  
0.4061

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

52.7702, 0.4844,  
0.4474

52.7702, 0.4844,  
0.4474

49.5796, 0.4963,  
0.4441


56.4406, 0.4688,  
0.4463


60.4533, 0.4502,  
0.4400

64.8284, 0.4297,  
0.4293

69.5843, 0.4082,  
0.4152

 74.7377, 0.3869,  
0.3989

 80.3035, 0.3663,  
0.3815

 86.2960, 0.3471,  
0.3638

 92.7280, 0.3295,  
0.3465

99.6120, 0.3135,  
0.3299

# Harmonies

## Analogous

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



52.7702, 0.5194, 0.3742



52.7702, 0.4844, 0.4474



52.7702, 0.4066, 0.5113

# Triad

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



52.7702, 0.4844, 0.4474



52.7702, 0.1617, 0.3186



52.7702, 0.2835, 0.1991

# Complementary

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



52.7702, 0.4844, 0.4474



16.9414, 0.1695, 0.1239

# 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.



52.7702, 0.2010, 0.1787



52.7702, 0.4844, 0.4474



52.7702, 0.1413, 0.2293

# Square

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



52.7702, 0.4844, 0.4474



52.7702, 0.2210, 0.4413



52.7702, 0.1546, 0.1864



52.7702, 0.3926, 0.2437



# Rectangle

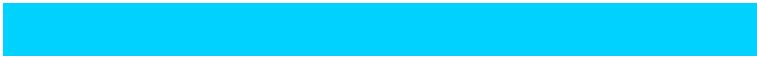
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



52.7702, 0.4844, 0.4474



52.7702, 0.3436, 0.5283



52.7702, 0.1546, 0.1864



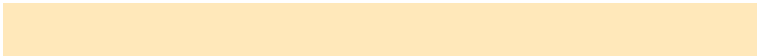
52.7702, 0.2521, 0.1894

# Sweetspot

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



52.7686, 0.4844, 0.4474



82.3780, 0.3594, 0.3752



22.9362, 0.5347, 0.2780



17.2043, 0.3661, 0.3812



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.



52.7686, 0.4844, 0.4474



49.5796, 0.4963, 0.4441



86.8594, 0.3935, 0.5214



19.9963, 0.3278, 0.3447



26.1938, 0.4947, 0.4454



2.7526, 0.4839, 0.4540



# Inverse Universe

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



16.9414, 0.1695, 0.1239



13.8998, 0.1627, 0.1057



8.7999, 0.1624, 0.0708



18.3806, 0.2979, 0.3128



7.5090, 0.1635, 0.1087



0.9236, 0.1697, 0.1310



# Previews

## White Background



This preview shows how the Yxy color 52.7702, 0.4844, 0.4474 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 52.7702, 0.4844, 0.4474 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 52.7702, 0.4844, 0.4474**

## **Background**



This preview shows how black text looks on a background with the Yxy color 52.7702, 0.4844, 0.4474.



This preview shows how white text looks on a background with the Yxy color 52.7702, 0.4844, 0.4474.

# 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

52.7702, 0.4844, 0.4474

### Protanopia

52.9804, 0.4365, 0.4827

### Deuteranopia

52.5543, 0.4710, 0.4601



## Tritanopia

52.8906, 0.3830, 0.3187

# Trichromacy



## Original Color

52.7702, 0.4844, 0.4474

## Protanomaly

52.6087, 0.4545, 0.4696

## Deuteranomaly

52.4672, 0.4759, 0.4556

## Tritanomaly

52.1951, 0.4334, 0.3798

# Monochromacy



## Original Color

52.7702, 0.4844, 0.4474

## Achromatopsia

47.3531, 0.3127, 0.3290

## Achromatomaly

48.0837, 0.3850, 0.3979

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.7702, 0.4844, 0.4474 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, 24)` looks like.

```
.text, #text, p{  
    color:rgb(255, 177, 24)  
}
```

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, 24) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 177, 24) }
```

## Border

The CSS property to change the border of an element to Yxy 52.7702, 0.4844, 0.4474 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, 24) }
```

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

```
.border{ border-color:rgb(255, 177, 24) }
```

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, 24)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 177, 24); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 177, 24);  
box-shadow:4px 4px 4px 4px rgb(255, 177,  
24) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.7702, 0.4844, 0.4474 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, 24) }
```

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

```
.background{ background-color: rgb(255,  
177, 24) }
```

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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