

# Converting Colors

$Y_{xy}(48.9782, 0.4656, 0.4075)$

Have a look what the booklet for  
Yxy(48.9782, 0.4656, 0.4075)  
contains.

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# Color

**Yxy(48.8270, 0.4654, 0.4071)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FDA656
RGB	253, 166, 86
RGB Percent	99%, 65%, 34%
CMY	0.0079, 0.3490, 0.6626
CMYK	0.00, 0.34, 0.66, 0.01
HSL	29°, 98%, 66%
HSV	29°, 66%, 99%
XYZ	55.8194, 48.8270, 15.2922
YIQ	182.8930, 77.5320, -6.4360

# Conversions

## Conversions Part 2

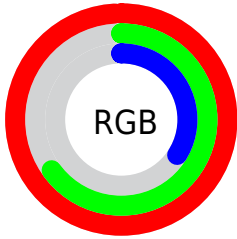
Format	Color
R <sub>Y</sub> B	253, 240, 86
Decimal	16623190
CIE Lab	75.34, 24.99, 53.53
CIE LCh	75, 59.076, 64.972
Yxy	48.8270, 0.4654, 0.4071
Android (android.graphics.Color)	4294813270 (0xFFFDA656)
YUV	182.8930, -47.7682, 61.4838
Hunter-Lab	69.8763, 20.3079, 35.9380

# Details

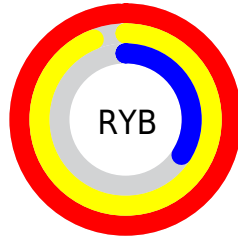
The Yxy color **48.8270, 0.4654, 0.4071** is a light color, and the websafe version is hex **FF9933**. The color can be described as light muted orange. A complement of this color would be **38.9542, 0.2099, 0.2239**, and the grayscale version is **47.5302, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.8079, 0.3956, 0.4129**, and **23.3566, 0.5013, 0.4175** is the 20% darker color. If you saturate the color by 10%, you get **43.9425, 0.4938, 0.4117**, and if you desaturate by 10%, it is **54.3516, 0.4366, 0.3985**.

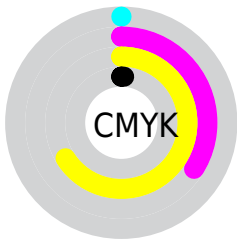
# Distribution



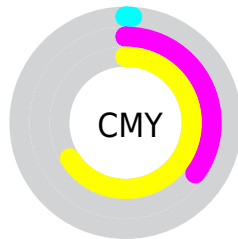
- Red (99%)
- Green (65%)
- Blue (34%)



- Red (99%)
- Yellow (94%)
- Blue (34%)



- Cyan (0%)
- Magenta (34%)
- Yellow (66%)
- Black (1%)




- Cyan (1%)
- Magenta (35%)
- Yellow (66%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.8270, 0.4654, 0.4071 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 48.8270, 0.4654, 0.4071 by changing the saturation by 10% instead.





 48.8270, 0.4654,  
0.4071


 48.8270, 0.4654,  
0.4071


382.0609, 0.3920,  
0.3753


 34.4823, 0.4817,  
0.4122


 88.4345, 0.4401,  
0.3976


 23.2643, 0.5011,  
0.4171


 114.4660, 0.4301,  
0.3934

 14.7888, 0.5242,  
0.4206


 145.1619, 0.4215,  
0.3896

 8.6713, 0.5528,  
0.4219

 180.9065, 0.4141,  
0.3861

 4.5274, 0.5849,  
0.4151

 222.0844, 0.4075,  
0.3830

 1.9727, 0.6126,  
0.3874

269.0798, 0.4018,

 0.5916, 0.6730,

0.3802

0.3270

322.2771, 0.3966,  
0.3776

■ 0.0000, 1.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 48.8270, 0.4654,  
0.4071

■ 48.8270, 0.4654,  
0.4071

■ 43.9425, 0.4938,  
0.4117

■ 54.3516, 0.4366,  
0.3985

■ 39.6601, 0.5199,  
0.4113


■ 60.5366, 0.4090,  
0.3873


■ 35.9468, 0.5419,  
0.4052

■ 67.4102, 0.3834,  
0.3747

■ 34.6034, 0.5498,  
0.4017

■ 74.9963, 0.3604,  
0.3616

 83.3174, 0.3400,  
0.3486

 92.3949, 0.3222,  
0.3361

99.6188, 0.3115,  
0.3290

# Harmonies

## Analogous

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



48.8270, 0.4685, 0.3481



48.8270, 0.4654, 0.4071



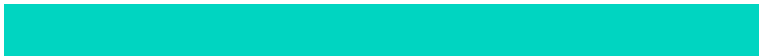
48.8270, 0.4189, 0.4584

# Triad

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



48.8270, 0.4654, 0.4071



48.8270, 0.2101, 0.3593



48.8270, 0.2618, 0.2150

# Complementary

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



48.8270, 0.4654, 0.4071



38.9542, 0.2099, 0.2239

# 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.



48.8270, 0.2054, 0.2079



48.8270, 0.4654, 0.4071



48.8270, 0.1784, 0.2782

# Square

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



48.8270, 0.4654, 0.4071



48.8270, 0.2711, 0.4422



48.8270, 0.1774, 0.2273



48.8270, 0.3409, 0.2447



# Rectangle

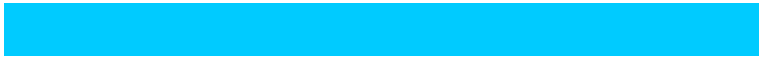
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.8270, 0.4654, 0.4071



48.8270, 0.3730, 0.4776



48.8270, 0.1774, 0.2273



48.8270, 0.2399, 0.2100

# Sweetspot

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



48.8295, 0.4654, 0.4071



81.3459, 0.3479, 0.3537



30.6368, 0.4093, 0.2431



16.9034, 0.3536, 0.3574



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.



48.8295, 0.4654, 0.4071



43.3561, 0.5021, 0.4122



88.3264, 0.4068, 0.4755



19.4230, 0.3282, 0.3404



18.6991, 0.5472, 0.4037



2.0379, 0.5288, 0.4183



# Inverse Universe

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



38.9542, 0.2099, 0.2239



32.6108, 0.1946, 0.1992



16.6544, 0.1854, 0.1217



18.9433, 0.2979, 0.3173



12.8143, 0.1790, 0.1644



1.4666, 0.1846, 0.1844



# Previews

## White Background



This preview shows how the Yxy color 48.8270, 0.4654, 0.4071 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 48.8270, 0.4654, 0.4071 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 48.8270, 0.4654, 0.4071**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.8270, 0.4654, 0.4071.



This preview shows how white text looks on a background with the Yxy color 48.8270, 0.4654, 0.4071.

# 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

48.8270, 0.4654, 0.4071

### Protanopia

49.0123, 0.4043, 0.4409

### Deuteranopia

48.8918, 0.4386, 0.4296



## Tritanopia

48.9208, 0.3961, 0.3187

# Trichromacy



**Original Color**

48.8270, 0.4654, 0.4071

**Protanomaly**

48.6664, 0.4261, 0.4285

**Deuteranomaly**

48.7044, 0.4483, 0.4214

**Tritanomaly**

48.7756, 0.4236, 0.3535

# Monochromacy



**Original Color**

48.8270, 0.4654, 0.4071

**Achromatopsia**

47.3531, 0.3127, 0.3290

**Achromatomaly**

46.9923, 0.3659, 0.3652

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.8270, 0.4654, 0.4071 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(253, 166, 86)` looks like.

```
.text, #text, p{  
    color:rgb(253, 166, 86)  
}
```

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(253, 166, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(253, 166, 86) }
```

## Border

The CSS property to change the border of an element to Yxy 48.8270, 0.4654, 0.4071 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(253, 166, 86) }
```

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

```
.border{ border-color:rgb(253, 166, 86) }
```

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

Here you see how a box with a 4 pixel `rgb(253, 166, 86)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(253, 166, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(253, 166, 86);  
box-shadow:4px 4px 4px 4px rgb(253, 166,  
86) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.8270, 0.4654, 0.4071 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(253, 166, 86) }
```

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

```
.background{ background-color: rgb(253,  
166, 86) }
```

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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