

# Converting Colors

$Y_{xy}(48.8013, 0.4271, 0.4179)$

Have a look what the booklet for  
Yxy(48.8013, 0.4271, 0.4179)  
contains.

<b>Yxy(48.8013, 0.4271, 0.4179)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(48.8013, 0.4271, 0.4179)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4B161
RGB	228, 177, 97
RGB Percent	89%, 69%, 38%
CMY	0.1059, 0.3059, 0.6196
CMYK	0.00, 0.22, 0.57, 0.11
HSL	37°, 71%, 64%
HSV	37°, 57%, 89%
XYZ	49.8757, 48.8013, 18.1005
YIQ	183.1290, 56.0760, -14.0680

# Conversions

## Conversions Part 2

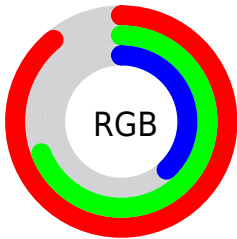
<b>Format</b>	<b>Color</b>
<b>RYB</b>	181, 228, 97
Decimal	14987617
CIELab	75.33, 9.64, 47.49
CIELCh	75, 48.460, 78.527
Yxy	48.8013, 0.4271, 0.4179
Android (android.graphics.Color)	4293177697 (0xFFE4B161)
YUV	183.1290, -42.4616, 39.3519
Hunter-Lab	69.8579, 5.1902, 33.5382

# Details

The Yxy color **48.8013, 0.4271, 0.4179** is a light color, and the websafe version is hex **FFCC66**. A complement of this color would be **29.3239, 0.2165, 0.2151**, and the grayscale version is **47.6444, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.7398, 0.3828, 0.4123**, and **23.3075, 0.4531, 0.4362** is the 20% darker color. If you saturate the color by 10%, you get **45.0443, 0.4500, 0.4289**, and if you desaturate by 10%, it is **52.9134, 0.4040, 0.4041**.

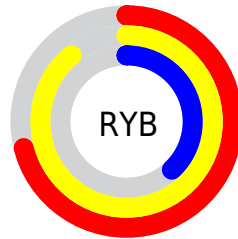
# Distribution



Red (89%)

Green (69%)

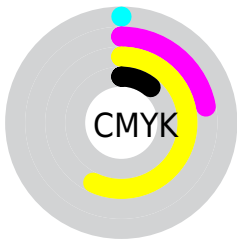
Blue (38%)



Red (71%)

Yellow (89%)

Blue (38%)

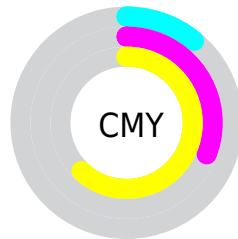


Cyan (0%)

Magenta (22%)

Yellow (57%)

Black (11%)



Cyan (11%)

Magenta (31%)


Yellow (62%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.8013, 0.4271, 0.4179 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 48.8013, 0.4271, 0.4179 by changing the saturation by 10% instead.




 48.8013, 0.4271,  
0.4179


 48.8013, 0.4271,  
0.4179

381.9596, 0.3721,  
0.3773


 34.4619, 0.4395,  
0.4263


 88.3963, 0.4080,  
0.4044

 23.2487, 0.4544,  
0.4358


 114.4206, 0.4005,  
0.3989

 14.7772, 0.4724,  
0.4464


 145.1087, 0.3941,  
0.3941

 8.6632, 0.4936,  
0.4569

 180.8450, 0.3885,  
0.3899

 4.5221, 0.5268,  
0.4732

222.0138, 0.3836,  
0.3862

 1.9697, 0.5389,  
0.4611

268.9996, 0.3793,

 0.5898, 0.5744,

0.3829

0.4256

322.1867, 0.3755,  
0.3800

0.0000, 0.0000,  
0.0000

48.8013, 0.4271,  
0.4179

48.8013, 0.4271,  
0.4179

45.0443, 0.4500,  
0.4289

52.9134, 0.4040,  
0.4041

41.6201, 0.4717,  
0.4358

57.3871, 0.3817,  
0.3885

38.5140, 0.4907,  
0.4377

62.2375, 0.3608,  
0.3723

35.7045, 0.5064,  
0.4344

67.4764, 0.3417,  
0.3560

35.0294, 0.5102,  
0.4331

73.1149, 0.3244,  
0.3402

■ 79.1636, 0.3090,  
0.3253

■ 85.5287, 0.2962,  
0.3129

■ 90.8585, 0.2963,  
0.3219

■ 95.2345, 0.2964,  
0.3290

# Harmonies

## Analogous

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



48.8013, 0.4456, 0.3706



48.8013, 0.4271, 0.4179



48.8013, 0.3781, 0.4484

# Triad

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



48.8013, 0.4271, 0.4179



48.8013, 0.2116, 0.3231



48.8013, 0.2993, 0.2417

# Complementary

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



48.8013, 0.4271, 0.4179



29.3239, 0.2165, 0.2151

# 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.



48.8013, 0.2416, 0.2266



48.8013, 0.4271, 0.4179



48.8013, 0.1956, 0.2656

# Square

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



48.8013, 0.4271, 0.4179



48.8013, 0.2537, 0.3926



48.8013, 0.2060, 0.2335



48.8013, 0.3676, 0.2748



# Rectangle

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



48.8013, 0.4271, 0.4179



48.8013, 0.3363, 0.4495



48.8013, 0.2060, 0.2335



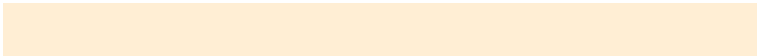
48.8013, 0.2781, 0.2344

# Sweetspot

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



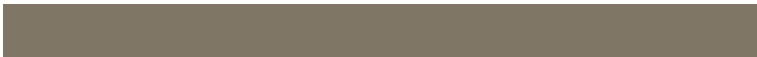
48.8037, 0.4271, 0.4179



87.2169, 0.3411, 0.3554



27.2275, 0.4147, 0.2706



18.3663, 0.3448, 0.3587



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.



48.8037, 0.4271, 0.4179



57.1547, 0.4544, 0.4306



70.7842, 0.3844, 0.4700



15.8257, 0.3277, 0.3433



20.4634, 0.5084, 0.4345



1.6914, 0.4919, 0.4476



# Inverse Universe

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



29.3239, 0.2165, 0.2151



29.9228, 0.1982, 0.1865



17.4734, 0.2101, 0.1485



14.8028, 0.2981, 0.3143



7.5514, 0.1677, 0.1236



0.7342, 0.1758, 0.1527



# Previews

## White Background



This preview shows how the Yxy color 48.8013, 0.4271, 0.4179 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 48.8013, 0.4271, 0.4179 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 48.8013, 0.4271, 0.4179**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.8013, 0.4271, 0.4179.



This preview shows how white text looks on a background with the Yxy color 48.8013, 0.4271, 0.4179.

# 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

48.8013, 0.4271, 0.4179

### Protanopia

49.0170, 0.3979, 0.4330

### Deuteranopia

48.8013, 0.4271, 0.4179



## Tritanopia

48.5949, 0.3645, 0.3145

# Trichromacy



**Original Color**

48.8013, 0.4271, 0.4179

**Protanomaly**

48.9140, 0.4078, 0.4278

**Deuteranomaly**

48.8013, 0.4271, 0.4179

**Tritanomaly**

48.4836, 0.3887, 0.3533

# Monochromacy



**Original Color**

48.8013, 0.4271, 0.4179

**Achromatopsia**

47.3531, 0.3127, 0.3290

**Achromatomaly**

47.4569, 0.3528, 0.3660

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.8013, 0.4271, 0.4179 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(228, 177, 97)` looks like.

```
.text, #text, p{  
  color:rgb(228, 177, 97)  
}
```

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(228, 177, 97) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 177, 97) }
```

## Border

The CSS property to change the border of an element to Yxy 48.8013, 0.4271, 0.4179 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(228, 177, 97) }
```

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

```
.border{ border-color:rgb(228, 177, 97) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 177, 97)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 177, 97); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 177, 97);  
box-shadow:4px 4px 4px 4px rgb(228, 177,  
97) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.8013, 0.4271, 0.4179 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 177, 97) }
```

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

```
.background{ background-color: rgb(228,  
177, 97) }
```

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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