

# Converting Colors

$Y_{xy}(47.8917, 0.3513, 0.4129)$

Have a look what the booklet for  
Yxy(47.8917, 0.3513, 0.4129)  
contains.

<b>Yxy(47.8504, 0.3505, 0.4124)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(47.8504, 0.3505, 0.4124)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B2BE80
RGB	178, 190, 128
RGB Percent	70%, 75%, 50%
CMY	0.3020, 0.2549, 0.4981
CMYK	0.06, 0.00, 0.33, 0.25
HSL	72°, 32%, 62%
HSV	72°, 33%, 75%
XYZ	40.6682, 47.8504, 27.5105
YIQ	179.3440, 12.7500, -21.8260

# Conversions

## Conversions Part 2

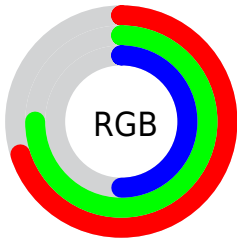
<b>Format</b>	<b>Color</b>
<b>RYB</b>	128, 190, 140
Decimal	11714176
CIELab	74.73, -14.31, 29.99
CIELCh	75, 33.233, 115.506
Yxy	47.8504, 0.3505, 0.4124
Android (android.graphics.Color)	4289904256 (0xFFB2BE80)
YUV	179.3440, -25.3126, -1.1787
Hunter-Lab	69.1740, -16.1122, 24.8422

# Details

The Yxy color  $47.8504, 0.3505, 0.4124$  is a light color, and the websafe version is hex `CCCC99`. A complement of this color would be  $24.7294, 0.2661, 0.2365$ , and the grayscale version is  $45.4051, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $86.7402, 0.3444, 0.3970$ , and  $22.7265, 0.3585, 0.4373$  is the 20% darker color. If you saturate the color by 10%, you get  $46.9686, 0.3611, 0.4383$ , and if you desaturate by 10%, it is  $48.8418, 0.3391, 0.3861$ .

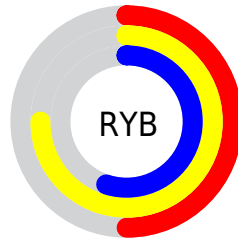
# Distribution



Red (70%)

Green (75%)

Blue (50%)



Red (50%)

Yellow (75%)

Blue (55%)

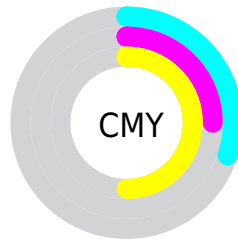


Cyan (6%)

Magenta (0%)

Yellow (33%)

Black (25%)



Cyan (30%)

Magenta (25%)


Yellow (50%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.8504, 0.3505, 0.4124 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 47.8504, 0.3505, 0.4124 by changing the saturation by 10% instead.




 47.8504, 0.3505,  
0.4124

 47.8504, 0.3505,  
0.4124


378.1988, 0.3326,  
0.3700


 33.7084, 0.3545,  
0.4231


 86.9816, 0.3443,  
0.3969

 22.6697, 0.3594,  
0.4368


 112.7397, 0.3419,  
0.3911

 14.3498, 0.3652,  
0.4549


 143.1385, 0.3398,  
0.3862

 8.3644, 0.3721,  
0.4797

178.5626, 0.3380,  
0.3820

 4.3290, 0.3795,  
0.5153

219.3963, 0.3364,  
0.3784

 1.8592, 0.4028,  
0.5972

266.0239, 0.3350,

 0.5237, 0.2208,

0.3752

0.7792

318.8300, 0.3338,  
0.3725

0.0000, 0.0000,  
0.0000

47.8504, 0.3505,  
0.4124

47.8504, 0.3505,  
0.4124

46.9686, 0.3611,  
0.4383

48.8418, 0.3391,  
0.3861

46.1848, 0.3705,  
0.4628

49.9414, 0.3274,  
0.3602

45.4951, 0.3781,  
0.4848


51.1558, 0.3157,  
0.3353

44.8931, 0.3834,  
0.5033


52.4894, 0.3045,  
0.3119


44.3713, 0.3861,  
0.5175

53.9463, 0.2937,  
0.2902


 43.9208, 0.3864,  
0.5272

 55.5304, 0.2837,  
0.2703

 43.6220, 0.3854,  
0.5322

 56.8531, 0.2780,  
0.2578

 57.3785, 0.2806,  
0.2583

 57.9163, 0.2832,  
0.2589

# Harmonies

## Analogous

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



47.8504, 0.3874, 0.3996



47.8504, 0.3505, 0.4124



47.8504, 0.3051, 0.3991

# Triad

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



47.8504, 0.3505, 0.4124



47.8504, 0.2286, 0.2788



47.8504, 0.3613, 0.2979

# Complementary

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



47.8504, 0.3505, 0.4124



24.7294, 0.2661, 0.2365

# 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.



47.8504, 0.3151, 0.2706



47.8504, 0.3505, 0.4124



47.8504, 0.2408, 0.2585

# Square

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



47.8504, 0.3505, 0.4124



47.8504, 0.2365, 0.3161



47.8504, 0.2713, 0.2563



47.8504, 0.3951, 0.3330



# Rectangle

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



47.8504, 0.3505, 0.4124



47.8504, 0.2763, 0.3761



47.8504, 0.2713, 0.2563



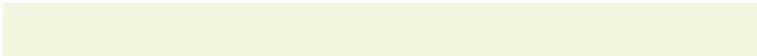
47.8504, 0.3466, 0.2876

# Sweetspot

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



47.8525, 0.3505, 0.4124



91.0191, 0.3245, 0.3539



31.0759, 0.3820, 0.3449



19.9203, 0.3261, 0.3575



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



47.8525, 0.3505, 0.4124



85.5693, 0.3581, 0.4306



44.6495, 0.3241, 0.4199



11.0246, 0.3235, 0.3519



29.0365, 0.3859, 0.5318



1.1617, 0.3943, 0.5251



# Inverse Universe

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



24.7294, 0.2661, 0.2365



37.3309, 0.2538, 0.2135



27.7409, 0.2961, 0.2440



9.3119, 0.3013, 0.3055



2.7576, 0.1601, 0.0656



0.1351, 0.1829, 0.0781



# Previews

## White Background



This preview shows how the Yxy color 47.8504, 0.3505, 0.4124 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

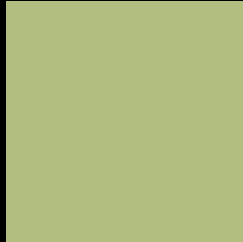
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.8504, 0.3505, 0.4124 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

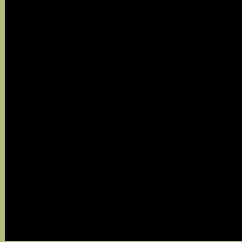
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 47.8504, 0.3505, 0.4124**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.8504, 0.3505, 0.4124.



This preview shows how white text looks on a background with the Yxy color 47.8504, 0.3505, 0.4124.

# 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

47.8504, 0.3505, 0.4124

### Protanopia

47.9038, 0.3743, 0.4039

### Deuteranopia

47.5948, 0.3907, 0.3831



## Tritanopia

47.5981, 0.3060, 0.3101

# Trichromacy



## Original Color

47.8504, 0.3505, 0.4124

## Protanomaly

47.7005, 0.3653, 0.4070

## Deuteranomaly

47.3560, 0.3752, 0.3933

## Tritanomaly

47.4116, 0.3230, 0.3460

# Monochromacy



## Original Color

47.8504, 0.3505, 0.4124

## Achromatopsia

45.0786, 0.3127, 0.3290

## Achromatomaly

45.9887, 0.3277, 0.3599

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  47.8504, 0.3505, 0.4124 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(178, 190, 128)` looks like.

```
.text, #text, p{  
    color:rgb(178, 190, 128)  
}
```

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(178, 190, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 190, 128) }
```

## Border

The CSS property to change the border of an element to Yxy 47.8504, 0.3505, 0.4124 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(178, 190, 128) }
```

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

```
.border{ border-color:rgb(178, 190, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 190, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 190, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 190, 128);  
box-shadow:4px 4px 4px 4px rgb(178, 190,  
128) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.8504, 0.3505, 0.4124 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 190, 128) }
```

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

```
.background{ background-color: rgb(178,  
190, 128) }
```

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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