

# Converting Colors

$Y_{xy}(46.8990, 0.3721, 0.4465)$

Have a look what the booklet for  
Yxy(46.8990, 0.3721, 0.4465)  
contains.

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# Color

**Yxy(46.8990, 0.3721, 0.4465)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B3BD64
RGB	179, 189, 100
RGB Percent	70%, 74%, 39%
CMY	0.2981, 0.2588, 0.6078
CMYK	0.05, 0.00, 0.47, 0.26
HSL	67°, 40%, 57%
HSV	67°, 47%, 74%
XYZ	39.0843, 46.8990, 19.0537
YIQ	175.8640, 22.6090, -29.7990

# Conversions

## Conversions Part 2

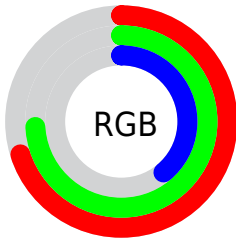
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">100, 189, 110</a>
Decimal	<a href="#">11779428</a>
CIELab	<a href="#">74.13, -16.66, 43.52</a>
CIELCh	<a href="#">74, 46.600, 110.944</a>
Yxy	<a href="#">46.8990, 0.3721, 0.4465</a>
Android (android.graphics.Color)	<a href="#">4289969508 (0xFFB3BD64)</a>
YUV	<a href="#">175.8640, -37.4010, 2.7503</a>
Hunter-Lab	<a href="#">68.4828, -17.9722, 31.4420</a>

# Details

The Yxy color  $46.8990, 0.3721, 0.4465$  is a light color, and the websafe version is hex `CCCC66`. A complement of this color would be  $16.1118, 0.2334, 0.1863$ , and the grayscale version is  $43.5311, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $85.4376, 0.3628, 0.4246$ , and  $22.1237, 0.3832, 0.4792$  is the 20% darker color. If you saturate the color by 10%, you get  $46.3244, 0.3822, 0.4686$ , and if you desaturate by 10%, it is  $47.5667, 0.3605, 0.4223$ .

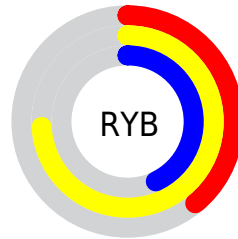
# Distribution



Red (70%)

Green (74%)

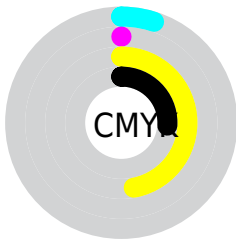
Blue (39%)



Red (39%)

Yellow (74%)

Blue (43%)

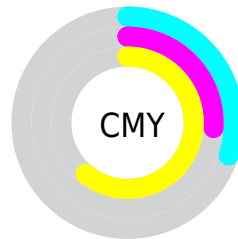


Cyan (5%)

Magenta (0%)

Yellow (47%)

Black (26%)



Cyan (30%)

Magenta (26%)


Yellow (61%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.8990, 0.3721, 0.4465 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 46.8990, 0.3721, 0.4465 by changing the saturation by 10% instead.





 46.8990, 0.3721,  
0.4465


 46.8990, 0.3721,  
0.4465


374.4112, 0.3448,  
0.3872

 32.9558, 0.3777,  
0.4610


 85.5628, 0.3630,  
0.4251


 22.0926, 0.3841,  
0.4791


 111.0523, 0.3593,  
0.4170

 13.9250, 0.3911,  
0.5022


 141.1593, 0.3561,  
0.4101

 8.0685, 0.3973,  
0.5318

 176.2682, 0.3533,  
0.4042

 4.1388, 0.4123,  
0.5877

216.7635, 0.3508,  
0.3991

 1.7515, 0.3864,  
0.6136

263.0295, 0.3486,

 0.4567, 0.0566,

0.3946

0.9434

315.4506, 0.3466,  
0.3907

0.0000, 0.0000,  
0.0000

46.8990, 0.3721,  
0.4465

46.8990, 0.3721,  
0.4465

46.3244, 0.3822,  
0.4686

47.5667, 0.3605,  
0.4223

45.8306, 0.3902,  
0.4874

48.3264, 0.3479,  
0.3969

45.4129, 0.3959,  
0.5024


49.1854, 0.3348,  
0.3713


45.0634, 0.3989,  
0.5130


50.1482, 0.3218,  
0.3462


44.7713, 0.3996,  
0.5194


51.2190, 0.3091,  
0.3221

 44.6909, 0.3996,  
0.5209

 52.4020, 0.2969,  
0.2995

 53.7010, 0.2855,  
0.2785

 55.1196, 0.2749,  
0.2593

 55.6481, 0.2740,  
0.2559

# Harmonies

## Analogous

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



46.8990, 0.4215, 0.4193



46.8990, 0.3721, 0.4465



46.8990, 0.3096, 0.4367

# Triad

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



46.8990, 0.3721, 0.4465



46.8990, 0.1980, 0.2638



46.8990, 0.3714, 0.2793

# Complementary

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



46.8990, 0.3721, 0.4465



16.1118, 0.2334, 0.1863

# 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.



46.8990, 0.3049, 0.2456



46.8990, 0.3721, 0.4465



46.8990, 0.2103, 0.2343

# Square

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



46.8990, 0.3721, 0.4465



46.8990, 0.2117, 0.3181



46.8990, 0.2472, 0.2293



46.8990, 0.4241, 0.3245



# Rectangle

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



46.8990, 0.3721, 0.4465



46.8990, 0.2691, 0.4062



46.8990, 0.2472, 0.2293



46.8990, 0.3496, 0.2665

# Sweetspot

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



46.9011, 0.3721, 0.4465



88.5525, 0.3311, 0.3640



22.6610, 0.4334, 0.3416



18.9656, 0.3339, 0.3695



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290



# Same Dimension

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



46.9011, 0.3721, 0.4465



82.9736, 0.3820, 0.4682



42.5230, 0.3334, 0.4634



11.0644, 0.3247, 0.3518



30.0863, 0.3999, 0.5207



1.1942, 0.4048, 0.5168



# Inverse Universe

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



16.1118, 0.2334, 0.1863



21.4689, 0.2138, 0.1531



19.6058, 0.2777, 0.2020



9.2755, 0.3001, 0.3054



2.5991, 0.1546, 0.0625



0.1191, 0.1697, 0.0708



# Previews

## White Background



This preview shows how the Yxy color 46.8990, 0.3721, 0.4465 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

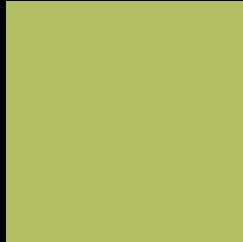
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.8990, 0.3721, 0.4465 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

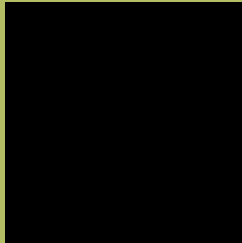
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.8990, 0.3721, 0.4465**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.8990, 0.3721, 0.4465.



This preview shows how white text looks on a background with the Yxy color 46.8990, 0.3721, 0.4465.

# 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

46.8990, 0.3721, 0.4465

### Protanopia

46.6171, 0.3971, 0.4330

### Deuteranopia

46.8012, 0.4183, 0.4099



## Tritanopia

47.0376, 0.3110, 0.3114

# Trichromacy



**Original Color**

46.8990, 0.3721, 0.4465

**Protanomaly**

46.8052, 0.3871, 0.4382

**Deuteranomaly**

46.3413, 0.4009, 0.4220

**Tritanomaly**

46.8093, 0.3347, 0.3606

# Monochromacy



**Original Color**

46.8990, 0.3721, 0.4465

**Achromatopsia**

43.4154, 0.3127, 0.3290

**Achromatomaly**

44.5330, 0.3360, 0.3741

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.8990, 0.3721, 0.4465 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(179, 189, 100)` looks like.

```
.text, #text, p{  
    color:rgb(179, 189, 100)  
}
```

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(179, 189, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(179, 189, 100) }
```

## Border

The CSS property to change the border of an element to Yxy 46.8990, 0.3721, 0.4465 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(179, 189, 100) }
```

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

```
.border{ border-color:rgb(179, 189, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(179, 189, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(179, 189, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(179, 189, 100);  
box-shadow:4px 4px 4px 4px rgb(179, 189,  
100) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.8990, 0.3721, 0.4465 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(179, 189, 100) }
```

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

```
.background{ background-color: rgb(179,  
189, 100) }
```

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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