

# Converting Colors

$Y_{xy}(42.0728, 0.3829, 0.4573)$

Have a look what the booklet for  
Yxy(42.0728, 0.3829, 0.4573)  
contains.

<b>Yxy(42.2813, 0.3831, 0.4579)</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(42.2813, 0.3831, 0.4579)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AEB454
RGB	174, 180, 84
RGB Percent	68%, 71%, 33%
CMY	0.3177, 0.2941, 0.6706
CMYK	0.03, 0.00, 0.53, 0.29
HSL	64°, 39%, 52%
HSV	64°, 53%, 71%
XYZ	35.3745, 42.2813, 14.6816
YIQ	167.2620, 27.2400, -31.1280

# Conversions

## Conversions Part 2

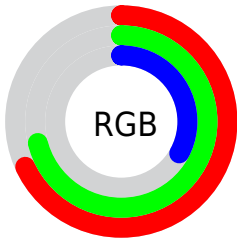
<b>Format</b>	<b>Color</b>
<b>RYB</b>	84, 180, 90
Decimal	11449428
CIELab	71.06, -15.62, 47.55
CIELCh	71, 50.054, 108.186
Yxy	42.2813, 0.3831, 0.4579
Android (android.graphics.Color)	4289639508 (0xFFFAEB454)
YUV	167.2620, -41.0482, 5.9092
Hunter-Lab	65.0241, -16.6844, 32.1299

# Details

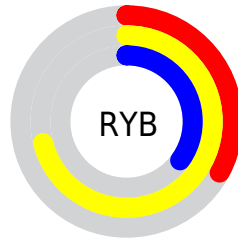
The Yxy color **42.2813, 0.3831, 0.4579** is a dark color, and the websafe version is hex **CCCC66**. A complement of this color would be **11.8091, 0.2168, 0.1638**, and the grayscale version is **38.9718, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.7574, 0.3722, 0.4349**, and **19.2050, 0.3972, 0.4934** is the 20% darker color. If you saturate the color by 10%, you get **41.9074, 0.3929, 0.4771**, and if you desaturate by 10%, it is **42.7327, 0.3715, 0.4358**.

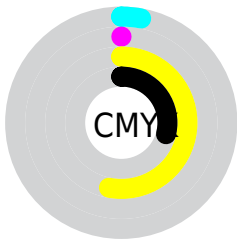
# Distribution



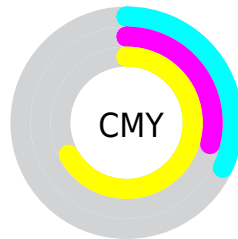
- Red (68%)
- Green (71%)
- Blue (33%)



- Red (33%)
- Yellow (71%)
- Blue (35%)



- Cyan (3%)
- Magenta (0%)
- Yellow (53%)
- Black (29%)




- Cyan (32%)
- Magenta (29%)
- Yellow (67%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.2813, 0.3831, 0.4579 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 42.2813, 0.3831, 0.4579 by changing the saturation by 10% instead.





 42.2813, 0.3831,  
0.4579

 42.2813, 0.3831,  
0.4579


355.6477, 0.3505,  
0.3924


 29.3216, 0.3897,  
0.4737


 78.6252, 0.3723,  
0.4343


 19.3243, 0.3970,  
0.4934


 102.7782, 0.3679,  
0.4253

 11.9048, 0.4043,  
0.5179


 131.4311, 0.3640,  
0.4177

 6.6789, 0.4129,  
0.5524

 164.9682, 0.3606,  
0.4112

 3.2621, 0.4111,  
0.5889

 203.7741, 0.3577,  
0.4055

 1.2701, 0.3813,  
0.6187

248.2330, 0.3550,

 0.1178, 0.0000,

0.4006

1.0000

298.7294, 0.3526,  
0.3963

■ 0.0000, 0.0000,  
0.0000

■ 42.2813, 0.3831,  
0.4579

■ 42.2813, 0.3831,  
0.4579

■ 41.9074, 0.3929,  
0.4771

■ 42.7327, 0.3715,  
0.4358

■ 41.5994, 0.4003,  
0.4926

■ 43.2607, 0.3586,  
0.4118

■ 41.3528, 0.4053,  
0.5039

■ 43.8720, 0.3449,  
0.3867

■ 41.1598, 0.4077,  
0.5108

■ 44.5708, 0.3310,  
0.3616

■ 41.0501, 0.4084,  
0.5139

■ 45.3612, 0.3172,  
0.3370

■ 46.2467, 0.3040,  
0.3135

■ 47.2309, 0.2914,  
0.2915

■ 48.3171, 0.2797,  
0.2710

■ 49.5086, 0.2689,  
0.2523

# Harmonies

## Analogous

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



42.2813, 0.4360, 0.4231



42.2813, 0.3831, 0.4579



42.2813, 0.3147, 0.4532

# Triad

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



42.2813, 0.3831, 0.4579



42.2813, 0.1873, 0.2606



42.2813, 0.3711, 0.2702

# Complementary

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



42.2813, 0.3831, 0.4579



11.8091, 0.2168, 0.1638

# 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.



42.2813, 0.2971, 0.2352



42.2813, 0.3831, 0.4579



42.2813, 0.1981, 0.2265

# Square

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



42.2813, 0.3831, 0.4579



42.2813, 0.2043, 0.3227



42.2813, 0.2356, 0.2193



42.2813, 0.4326, 0.3182



# Rectangle

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



42.2813, 0.3831, 0.4579



42.2813, 0.2696, 0.4217



42.2813, 0.2356, 0.2193



42.2813, 0.3464, 0.2567

# Sweetspot

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



42.2832, 0.3831, 0.4579



80.4189, 0.3350, 0.3689



17.4544, 0.4618, 0.3361



17.3254, 0.3379, 0.3740



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290



# Same Dimension

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



42.2832, 0.3831, 0.4579



75.8720, 0.3943, 0.4801



37.8134, 0.3389, 0.4799



9.8790, 0.3254, 0.3516



28.6582, 0.4086, 0.5138



0.9098, 0.4118, 0.5113



# Inverse Universe

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



11.8091, 0.2168, 0.1638



14.7597, 0.1937, 0.1257



14.9363, 0.2660, 0.1831



8.2548, 0.2994, 0.3055



2.3618, 0.1524, 0.0613



0.0827, 0.1624, 0.0668



# Previews

## White Background



This preview shows how the Yxy color 42.2813, 0.3831, 0.4579 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 42.2813, 0.3831, 0.4579 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

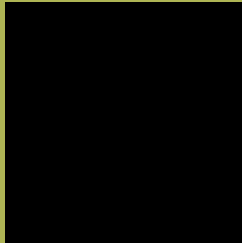
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.2813, 0.3831, 0.4579**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.2813, 0.3831, 0.4579.



This preview shows how white text looks on a background with the Yxy color 42.2813, 0.3831, 0.4579.

# 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

42.2813, 0.3831, 0.4579

### Protanopia

42.2188, 0.4070, 0.4446

### Deuteranopia

42.2732, 0.4291, 0.4205



## Tritanopia

41.9852, 0.3145, 0.3107

# Trichromacy



## Original Color

42.2813, 0.3831, 0.4579

## Protanomaly

42.1143, 0.3981, 0.4490

## Deuteranomaly

41.9561, 0.4115, 0.4334

## Tritanomaly

41.6970, 0.3414, 0.3647

# Monochromacy



## Original Color

42.2813, 0.3831, 0.4579

## Achromatopsia

38.6429, 0.3127, 0.3290

## Achromatomaly

39.8572, 0.3408, 0.3790

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.2813, 0.3831, 0.4579 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(174, 180, 84)` looks like.

```
.text, #text, p{  
    color:rgb(174, 180, 84)  
}
```

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(174, 180, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(174, 180, 84) }
```

## Border

The CSS property to change the border of an element to Yxy 42.2813, 0.3831, 0.4579 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(174, 180, 84) }
```

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

```
.border{ border-color:rgb(174, 180, 84) }
```

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

Here you see how a box with a 4 pixel rgb(174, 180, 84) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(174, 180, 84); -webkit-box-  
shadow:4px 4px 4px 4px rgb(174, 180, 84);  
box-shadow:4px 4px 4px 4px rgb(174, 180,  
84) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.2813, 0.3831, 0.4579 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(174, 180, 84) }
```

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

```
.background{ background-color: rgb(174,  
180, 84) }
```

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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