

# Converting Colors

$Y_{xy}(48.0138, 0.4326, 0.4395)$

Have a look what the booklet for  
Yxy(48.0138, 0.4326, 0.4395)  
contains.

<b>Yxy(48.1624, 0.4321, 0.4399)</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(48.1624, 0.4321, 0.4399)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DDB34E
RGB	221, 179, 78
RGB Percent	87%, 70%, 31%
CMY	0.1334, 0.2980, 0.6940
CMYK	0.00, 0.19, 0.65, 0.13
HSL	42°, 68%, 59%
HSV	42°, 65%, 87%
XYZ	47.3084, 48.1624, 14.0141
YIQ	180.0440, 57.4530, -22.5070

# Conversions

## Conversions Part 2

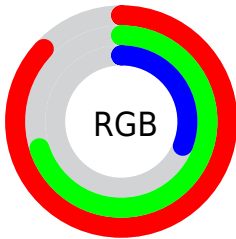
Format	Color
R <sub>YB</sub>	137, 221, 78
Decimal	14529358
CIE Lab	74.93, 4.32, 55.79
CIE LCh	75, 55.959, 85.569
Yxy	48.1624, 0.4321, 0.4399
Android (android.graphics.Color)	4292719438 (0xFFDDB34E)
YUV	180.0440, -50.3077, 35.9184
Hunter-Lab	69.3991, 0.2325, 36.6067

# Details

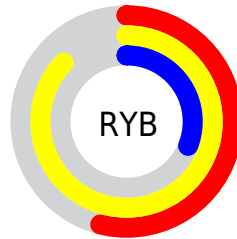
The Yxy color **48.1624, 0.4321, 0.4399** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light muted orange. A complement of this color would be **20.2672, 0.2005, 0.1774**, and the grayscale version is **45.9202, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3154, 0.3934, 0.4315**, and **22.9181, 0.4569, 0.4626** is the 20% darker color. If you saturate the color by 10%, you get **45.3599, 0.4500, 0.4499**, and if you desaturate by 10%, it is **51.1983, 0.4127, 0.4262**.

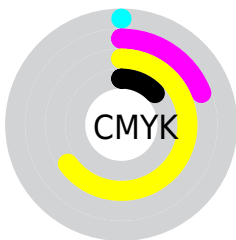
# Distribution



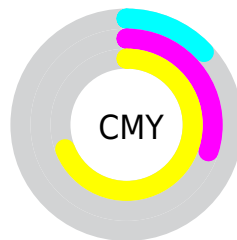
- Red (87%)
- Green (70%)
- Blue (31%)



- Red (54%)
- Yellow (87%)
- Blue (31%)



- Cyan (0%)
- Magenta (19%)
- Yellow (65%)
- Black (13%)




- Cyan (13%)
- Magenta (30%)
- Yellow (69%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.1624, 0.4321, 0.4399 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 48.1624, 0.4321, 0.4399 by changing the saturation by 10% instead.





 48.1624, 0.4321,  
0.4399


 48.1624, 0.4321,  
0.4399


379.4355, 0.3761,  
0.3892


 33.9555, 0.4439,  
0.4501


 87.4462, 0.4132,  
0.4231


 22.8594, 0.4576,  
0.4616


 113.2918, 0.4056,  
0.4163


 14.4897, 0.4730,  
0.4738


 143.7858, 0.3990,  
0.4103

 8.4621, 0.4929,  
0.4892

 179.3126, 0.3933,  
0.4051

 4.3920, 0.5055,  
0.4945

 220.2566, 0.3882,  
0.4004

 1.8952, 0.5112,  
0.4888

267.0021, 0.3837,

 0.5455, 0.5336,

0.3963

0.4664

319.9336, 0.3797,  
0.3926

0.0000, 0.0000,  
0.0000

48.1624, 0.4321,  
0.4399

48.1624, 0.4321,  
0.4399

45.3599, 0.4500,  
0.4499

51.1983, 0.4127,  
0.4262

42.7710, 0.4655,  
0.4552

54.4719, 0.3926,  
0.4099

40.3827, 0.4779,  
0.4555

57.9956, 0.3729,  
0.3920

39.1838, 0.4836,  
0.4542

61.7787, 0.3539,  
0.3734

65.8299, 0.3362,  
0.3550

■ 70.1573, 0.3199,  
0.3371

■ 74.7686, 0.3050,  
0.3201

■ 79.6710, 0.2917,  
0.3043

■ 83.3800, 0.2918,  
0.3109

# Harmonies

## Analogous

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



48.1624, 0.4646, 0.3873



48.1624, 0.4321, 0.4399



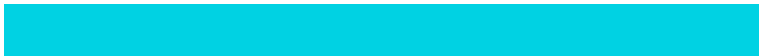
48.1624, 0.3696, 0.4706

# Triad

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



48.1624, 0.4321, 0.4399



48.1624, 0.1903, 0.3028



48.1624, 0.3147, 0.2371

# Complementary

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



48.1624, 0.4321, 0.4399



20.2672, 0.2005, 0.1774

# 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.



48.1624, 0.2444, 0.2149



48.1624, 0.4321, 0.4399



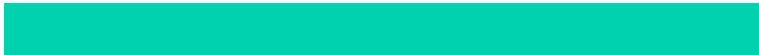
48.1624, 0.1801, 0.2439

# Square

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



48.1624, 0.4321, 0.4399



48.1624, 0.2305, 0.3845



48.1624, 0.1984, 0.2158



48.1624, 0.3938, 0.2779



# Rectangle

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



48.1624, 0.4321, 0.4399



48.1624, 0.3205, 0.4656



48.1624, 0.1984, 0.2158



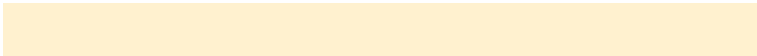
48.1624, 0.2892, 0.2274

# Sweetspot

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



48.1647, 0.4321, 0.4399



88.5233, 0.3439, 0.3631



22.1978, 0.4576, 0.2823



18.6039, 0.3491, 0.3685



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.



48.1647, 0.4321, 0.4399



61.3077, 0.4565, 0.4525



63.5050, 0.3790, 0.4906



14.5847, 0.3274, 0.3454



22.9737, 0.4824, 0.4552



1.6348, 0.4697, 0.4653



# Inverse Universe

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



20.2672, 0.2005, 0.1774



20.2063, 0.1800, 0.1412



13.7726, 0.2066, 0.1306



13.2369, 0.2981, 0.3120



5.3910, 0.1608, 0.0990



0.4965, 0.1699, 0.1316



# Previews

## White Background



This preview shows how the Yxy color 48.1624, 0.4321, 0.4399 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

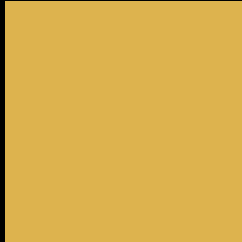
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.1624, 0.4321, 0.4399 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 48.1624, 0.4321, 0.4399**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.1624, 0.4321, 0.4399.



This preview shows how white text looks on a background with the Yxy color 48.1624, 0.4321, 0.4399.

# 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

48.1624, 0.4321, 0.4399

### Protanopia

48.2562, 0.4117, 0.4518

### Deuteranopia

48.2732, 0.4411, 0.4324



## Tritanopia

47.9995, 0.3578, 0.3142

# Trichromacy



## Original Color

48.1624, 0.4321, 0.4399

## Protanomaly

48.2804, 0.4193, 0.4478

## Deuteranomaly

48.1775, 0.4376, 0.4348

## Tritanomaly

47.6874, 0.3883, 0.3620

# Monochromacy



## Original Color

48.1624, 0.4321, 0.4399

## Achromatopsia

45.6411, 0.3127, 0.3290

## Achromatomaly

46.2278, 0.3571, 0.3770

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.1624, 0.4321, 0.4399 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(221, 179, 78)` looks like.

```
.text, #text, p{  
    color:rgb(221, 179, 78)  
}
```

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(221, 179, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 179, 78) }
```

## Border

The CSS property to change the border of an element to Yxy 48.1624, 0.4321, 0.4399 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(221, 179, 78) }
```

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

```
.border{ border-color:rgb(221, 179, 78) }
```

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

Here you see how a box with a 4 pixel rgb(221, 179, 78) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 179, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 179, 78);  
box-shadow:4px 4px 4px 4px rgb(221, 179,  
78) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 48.1624, 0.4321, 0.4399$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 179, 78) }
```

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

```
.background{ background-color: rgb(221,  
179, 78) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor