

# Converting Colors

$Y_{xy}(41.5809, 0.4013, 0.4022)$

Have a look what the booklet for  
Yxy(41.5809, 0.4013, 0.4022)  
contains.

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# Color

**Yxy(41.5789, 0.4013, 0.4022)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CCA76D
RGB	204, 167, 109
RGB Percent	80%, 65%, 43%
CMY	0.1999, 0.3451, 0.5724
CMYK	0.00, 0.18, 0.47, 0.20
HSL	37°, 48%, 61%
HSV	37°, 47%, 80%
XYZ	41.4859, 41.5789, 20.3139
YIQ	171.4510, 40.6700, -10.1940

# Conversions

## Conversions Part 2

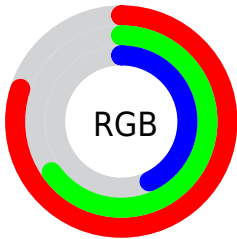
Format	Color
<a href="#">RYB</a>	<a href="#">170, 204, 109</a>
Decimal	<a href="#">13412205</a>
CIELab	<a href="#">70.58, 6.09, 34.99</a>
CIELCh	<a href="#">71, 35.520, 80.128</a>
Yxy	<a href="#">41.5789, 0.4013, 0.4022</a>
Android (android.graphics.Color)	<a href="#">4291602285 (0xFFCCA76D)</a>
YUV	<a href="#">171.4510, -30.7883, 28.5455</a>
Hunter-Lab	<a href="#">64.4817, 1.9993, 26.4588</a>

# Details

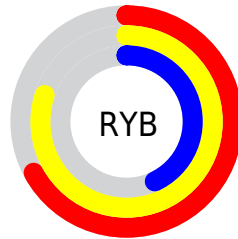
The Yxy color **41.5789, 0.4013, 0.4022** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **28.1864, 0.2354, 0.2413**, and the grayscale version is **41.1088, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.0758, 0.3796, 0.3914**, and **18.8836, 0.4262, 0.4201** is the 20% darker color. If you saturate the color by 10%, you get **38.3668, 0.4242, 0.4162**, and if you desaturate by 10%, it is **45.0761, 0.3793, 0.3866**.

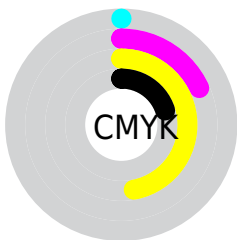
# Distribution



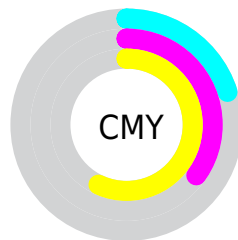
- Red (80%)
- Green (65%)
- Blue (43%)



- Red (67%)
- Yellow (80%)
- Blue (43%)



- Cyan (0%)
- Magenta (18%)
- Yellow (47%)
- Black (20%)




- Cyan (20%)
- Magenta (35%)
- Yellow (57%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.5789, 0.4013, 0.4022 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 41.5789, 0.4013, 0.4022 by changing the saturation by 10% instead.





 41.5789, 0.4013,  
0.4022

 41.5789, 0.4013,  
0.4022


352.7343, 0.3568,  
0.3665

 28.7717, 0.4121,  
0.4105


 77.5619, 0.3853,  
0.3896

 18.9082, 0.4257,  
0.4205


 101.5065, 0.3792,  
0.3848

 11.6040, 0.4429,  
0.4328


 129.9324, 0.3740,  
0.3806

 6.4746, 0.4651,  
0.4474

 163.2239, 0.3696,  
0.3770

 3.1358, 0.5130,  
0.4817

201.7654, 0.3658,  
0.3739

 1.2030, 0.5261,  
0.4739

245.9414, 0.3624,

 0.0642, 0.7657,

0.3711

0.2343

296.1363, 0.3594,  
0.3687

0.0000, 0.0000,  
0.0000

41.5789, 0.4013,  
0.4022

41.5789, 0.4013,  
0.4022

38.3668, 0.4242,  
0.4162

45.0761, 0.3793,  
0.3866

35.4234, 0.4470,  
0.4276

48.8621, 0.3587,  
0.3705

32.7395, 0.4688,  
0.4350

52.9477, 0.3399,  
0.3544

30.3023, 0.4882,  
0.4377

57.3415, 0.3229,  
0.3388

28.0960, 0.5043,  
0.4351

62.0515, 0.3077,  
0.3240

■ 27.3821, 0.5096,  
0.4336

■ 67.0853, 0.2942,  
0.3103

■ 72.4504, 0.2823,  
0.2975

■ 76.9929, 0.2811,  
0.3030

■ 81.5357, 0.2816,  
0.3116

# Harmonies

## Analogous

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



41.5789, 0.4159, 0.3663



41.5789, 0.4013, 0.4022



41.5789, 0.3629, 0.4219

# Triad

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



41.5789, 0.4013, 0.4022



41.5789, 0.2318, 0.3229



41.5789, 0.3057, 0.2603

# Complementary

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



41.5789, 0.4013, 0.4022



28.1864, 0.2354, 0.2413

# 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.



41.5789, 0.2591, 0.2475



41.5789, 0.4013, 0.4022



41.5789, 0.2193, 0.2787

# Square

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



41.5789, 0.4013, 0.4022



41.5789, 0.2651, 0.3748



41.5789, 0.2289, 0.2530



41.5789, 0.3583, 0.2881



# Rectangle

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



41.5789, 0.4013, 0.4022



41.5789, 0.3300, 0.4198



41.5789, 0.2289, 0.2530



41.5789, 0.2888, 0.2542

# Sweetspot

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



41.5809, 0.4013, 0.4022



89.3519, 0.3357, 0.3506



25.8903, 0.3863, 0.2806



18.7936, 0.3395, 0.3540



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.



41.5809, 0.4013, 0.4022



63.4400, 0.4246, 0.4164



55.8378, 0.3728, 0.4454



12.3340, 0.3275, 0.3431



17.4165, 0.5079, 0.4349



1.0433, 0.4862, 0.4522

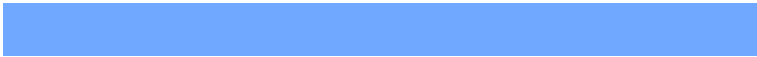


# Inverse Universe

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



28.1864, 0.2354, 0.2413



38.6297, 0.2184, 0.2178



19.1919, 0.2329, 0.1869



11.5491, 0.2983, 0.3145



6.4788, 0.1680, 0.1247



0.4806, 0.1790, 0.1644



# Previews

## White Background



This preview shows how the Yxy color 41.5789, 0.4013, 0.4022 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

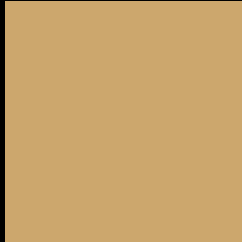
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 41.5789, 0.4013, 0.4022 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 41.5789, 0.4013, 0.4022**

## **Background**



This preview shows how black text looks on a background with the Yxy color 41.5789, 0.4013, 0.4022.



This preview shows how white text looks on a background with the Yxy color 41.5789, 0.4013, 0.4022.

# 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

41.5789, 0.4013, 0.4022

### Protanopia

41.7262, 0.3804, 0.4117

### Deuteranopia

41.5697, 0.4075, 0.3984



## Tritanopia

41.4765, 0.3504, 0.3131

# Trichromacy



## Original Color

41.5789, 0.4013, 0.4022

## Protanomaly

41.7209, 0.3882, 0.4088

## Deuteranomaly

41.6420, 0.4049, 0.4002

## Tritanomaly

41.4205, 0.3701, 0.3455

# Monochromacy



## Original Color

41.5789, 0.4013, 0.4022

## Achromatopsia

40.7240, 0.3127, 0.3290

## Achromatomaly

40.9548, 0.3441, 0.3591

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.5789, 0.4013, 0.4022 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(204, 167, 109)` looks like.

```
.text, #text, p{  
    color:rgb(204, 167, 109)  
}
```

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(204, 167, 109) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 167, 109) }
```

## Border

The CSS property to change the border of an element to Yxy 41.5789, 0.4013, 0.4022 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(204, 167, 109) }
```

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

```
.border{ border-color:rgb(204, 167, 109) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 167, 109)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 167, 109); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 167, 109);  
box-shadow:4px 4px 4px 4px rgb(204, 167,  
109) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.5789, 0.4013, 0.4022 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 167, 109) }
```

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

```
.background{ background-color: rgb(204,  
167, 109) }
```

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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