

# Converting Colors

$Y_{xy}(38.6575, 0.4099, 0.4029)$

Have a look what the booklet for  
Yxy(38.6575, 0.4099, 0.4029)  
contains.

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# Color

**Yxy(38.6575, 0.4099, 0.4029)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CAA066
RGB	202, 160, 102
RGB Percent	79%, 63%, 40%
CMY	0.2078, 0.3725, 0.6000
CMYK	0.00, 0.21, 0.50, 0.21
HSL	35°, 49%, 60%
HSV	35°, 50%, 79%
XYZ	39.3291, 38.6575, 17.9615
YIQ	165.9460, 43.6500, -9.1340

# Conversions

## Conversions Part 2

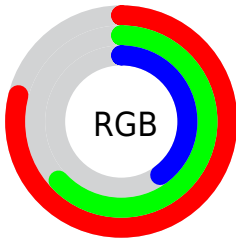
Format	Color
<a href="#">RYB</a>	<a href="#">174, 202, 102</a>
Decimal	<a href="#">13279334</a>
CIELab	<a href="#">68.50, 8.35, 36.01</a>
CIELCh	<a href="#">69, 36.963, 76.939</a>
Yxy	<a href="#">38.6575, 0.4099, 0.4029</a>
Android (android.graphics.Color)	<a href="#">4291469414 (0xFFCAA066)</a>
YUV	<a href="#">165.9460, -31.5254, 31.6194</a>
Hunter-Lab	<a href="#">62.1752, 4.1043, 26.3946</a>

# Details

The Yxy color **38.6575, 0.4099, 0.4029** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **27.0439, 0.2314, 0.2396**, and the grayscale version is **38.2470, 0.3127, 0.3290**.

A 20% lighter version of the original color is **72.1940, 0.3872, 0.3917**, and **17.3053, 0.4378, 0.4217** is the 20% darker color. If you saturate the color by 10%, you get **35.4632, 0.4339, 0.4156**, and if you desaturate by 10%, it is **42.1540, 0.3868, 0.3884**.

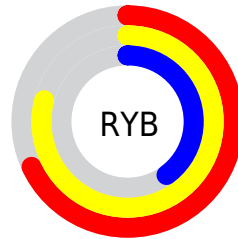
# Distribution



Red (79%)

Green (63%)

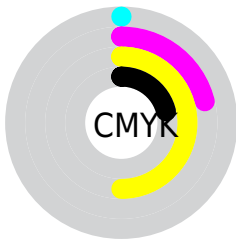
Blue (40%)



Red (68%)

Yellow (79%)

Blue (40%)

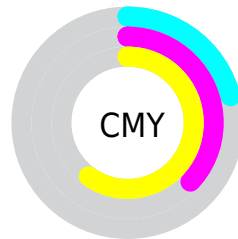


Cyan (0%)

Magenta (21%)

Yellow (50%)

Black (21%)



Cyan (21%)

Magenta (37%)

Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.6575, 0.4099, 0.4029 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 38.6575, 0.4099, 0.4029 by changing the saturation by 10% instead.





 38.6575, 0.4099,  
0.4029


 38.6575, 0.4099,  
0.4029

340.4321, 0.3605,  
0.3669


 26.4934, 0.4220,  
0.4111


 73.1148, 0.3920,  
0.3903


 17.1931, 0.4373,  
0.4210


 96.1768, 0.3852,  
0.3854

 10.3723, 0.4567,  
0.4327


 123.6402, 0.3795,  
0.3812

 5.6465, 0.4816,  
0.4459

 155.8894, 0.3746,  
0.3776

 2.6313, 0.5283,  
0.4717

193.3088, 0.3704,  
0.3744

 0.9424, 0.5443,  
0.4557

236.2828, 0.3667,

 0.0000, 1.0000,

0.3716

0.0000

285.1958, 0.3634,  
0.3691

0.0000, 0.0000,  
0.0000

38.6575, 0.4099,  
0.4029

38.6575, 0.4099,  
0.4029

35.4632, 0.4339,  
0.4156

42.1540, 0.3868,  
0.3884

32.5545, 0.4579,  
0.4253

45.9576, 0.3652,  
0.3730

29.9208, 0.4805,  
0.4309


50.0798, 0.3455,  
0.3576

27.5482, 0.5005,  
0.4313

54.5298, 0.3277,  
0.3426

25.4151, 0.5174,  
0.4270


59.3162, 0.3120,  
0.3283

 25.3142, 0.5182,  
0.4267

 64.4473, 0.2980,  
0.3150

 69.9312, 0.2857,  
0.3026

 75.2076, 0.2796,  
0.2999

 79.9896, 0.2803,  
0.3092

# Harmonies

## Analogous

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



38.6575, 0.4225, 0.3635



38.6575, 0.4099, 0.4029



38.6575, 0.3710, 0.4271

# Triad

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



38.6575, 0.4099, 0.4029



38.6575, 0.2295, 0.3281



38.6575, 0.2993, 0.2540

# Complementary

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



38.6575, 0.4099, 0.4029



27.0439, 0.2314, 0.2396

# 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.



38.6575, 0.2514, 0.2423



38.6575, 0.4099, 0.4029



38.6575, 0.2141, 0.2793

# Square

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



38.6575, 0.4099, 0.4029



38.6575, 0.2667, 0.3835



38.6575, 0.2217, 0.2501



38.6575, 0.3554, 0.2818



# Rectangle

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



38.6575, 0.4099, 0.4029



38.6575, 0.3365, 0.4276



38.6575, 0.2217, 0.2501



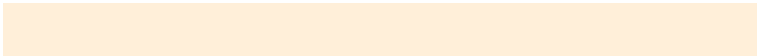
38.6575, 0.2817, 0.2482

# Sweetspot

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



38.6594, 0.4099, 0.4029



87.9490, 0.3376, 0.3511



24.1182, 0.3886, 0.2736



18.4847, 0.3415, 0.3543



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.



38.6594, 0.4099, 0.4029



59.8791, 0.4347, 0.4160



54.8547, 0.3789, 0.4507



12.2761, 0.3276, 0.3424



16.4668, 0.5165, 0.4281



0.9976, 0.4925, 0.4471

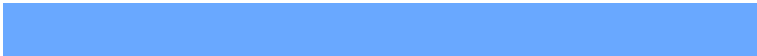


# Inverse Universe

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



27.0439, 0.2314, 0.2396



38.1117, 0.2148, 0.2167



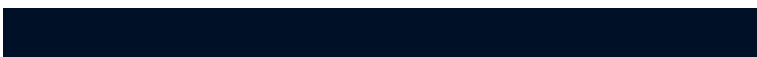
17.0005, 0.2242, 0.1758



11.6056, 0.2983, 0.3152



7.0788, 0.1705, 0.1337



0.5142, 0.1813, 0.1725



# Previews

## White Background



This preview shows how the Yxy color 38.6575, 0.4099, 0.4029 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

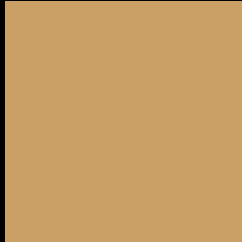
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.6575, 0.4099, 0.4029 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

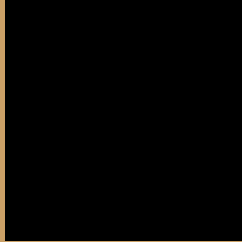
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.6575, 0.4099, 0.4029**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.6575, 0.4099, 0.4029.



This preview shows how white text looks on a background with the Yxy color 38.6575, 0.4099, 0.4029.

# 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

38.6575, 0.4099, 0.4029

### Protanopia

38.6024, 0.3826, 0.4142

### Deuteranopia

38.7974, 0.4109, 0.4026



## Tritanopia

38.5467, 0.3580, 0.3141

# Trichromacy



**Original Color**

38.6575, 0.4099, 0.4029

**Protanomaly**

38.3692, 0.3923, 0.4095

**Deuteranomaly**

38.7974, 0.4109, 0.4026

**Tritanomaly**

38.4876, 0.3786, 0.3471

# Monochromacy



**Original Color**

38.6575, 0.4099, 0.4029

**Achromatopsia**

38.1326, 0.3127, 0.3290

**Achromatomaly**

38.1178, 0.3463, 0.3584

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.6575, 0.4099, 0.4029 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(202, 160, 102)` looks like.

```
.text, #text, p{  
    color:rgb(202, 160, 102)  
}
```

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(202, 160, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 160, 102) }
```

## Border

The CSS property to change the border of an element to Yxy 38.6575, 0.4099, 0.4029 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(202, 160, 102) }
```

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

```
.border{ border-color:rgb(202, 160, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 160, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 160, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 160, 102);  
box-shadow:4px 4px 4px 4px rgb(202, 160,  
102) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.6575, 0.4099, 0.4029 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 160, 102) }
```

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

```
.background{ background-color: rgb(202,  
160, 102) }
```

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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