

# Converting Colors

$Y_{xy}(42.1556, 0.3908, 0.3904)$

Have a look what the booklet for  
Yxy(42.1556, 0.3908, 0.3904)  
contains.

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# Color

**Yxy(42.1987, 0.3910, 0.3901)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CCA878
RGB	204, 168, 120
RGB Percent	80%, 66%, 47%
CMY	0.2000, 0.3412, 0.5295
CMYK	0.00, 0.18, 0.41, 0.20
HSL	34°, 45%, 64%
HSV	34°, 41%, 80%
XYZ	42.2961, 42.1987, 23.6793
YIQ	173.2920, 36.8640, -7.2960

# Conversions

## Conversions Part 2

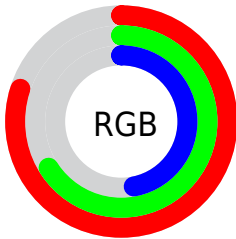
<b>Format</b>	<b>Color</b>
<b>RYB</b>	183, 204, 120
Decimal	13412472
CIELab	71.01, 6.70, 29.74
CIELCh	71, 30.486, 77.309
Yxy	42.1987, 0.3910, 0.3901
Android (android.graphics.Color)	4291602552 (0xFFCCA878)
YUV	173.2920, -26.2730, 26.9309
Hunter-Lab	64.9605, 2.5411, 23.8601

# Details

The Yxy color **42.1987, 0.3910, 0.3901** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **32.1264, 0.2455, 0.2583**, and the grayscale version is **42.0694, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.0525, 0.3709, 0.3802**, and **19.2416, 0.4127, 0.4053** is the 20% darker color. If you saturate the color by 10%, you get **38.6366, 0.4146, 0.4042**, and if you desaturate by 10%, it is **46.0873, 0.3689, 0.3750**.

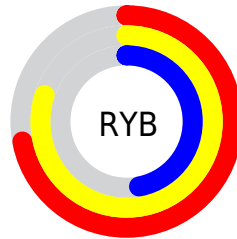
# Distribution



Red (80%)

Green (66%)

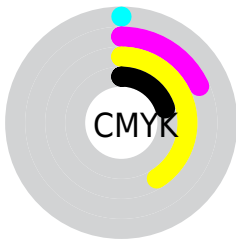
Blue (47%)



Red (72%)

Yellow (80%)

Blue (47%)

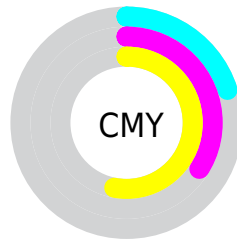


Cyan (0%)

Magenta (18%)

Yellow (41%)

Black (20%)



Cyan (20%)

Magenta (34%)


Yellow (53%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.1987, 0.3910, 0.3901 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 42.1987, 0.3910, 0.3901 by changing the saturation by 10% instead.





 42.1987, 0.3910,  
0.3901

 42.1987, 0.3910,  
0.3901


355.3060, 0.3515,  
0.3602

 29.2569, 0.4008,  
0.3971


 78.5003, 0.3766,  
0.3795

 19.2753, 0.4132,  
0.4058


 102.6288, 0.3712,  
0.3754

 11.8693, 0.4294,  
0.4167


 131.2551, 0.3667,  
0.3720

 6.6548, 0.4509,  
0.4303

164.7635, 0.3627,  
0.3690

 3.2471, 0.4855,  
0.4515

203.5384, 0.3594,  
0.3663

 1.2621, 0.5292,  
0.4708

247.9641, 0.3564,

 0.1116, 0.7073,

0.3640

0.2927

298.4252, 0.3538,  
0.3620

0.0000, 0.0000,  
0.0000

42.1987, 0.3910,  
0.3901

42.1987, 0.3910,  
0.3901

38.6366, 0.4146,  
0.4042

46.0873, 0.3689,  
0.3750

35.3842, 0.4390,  
0.4163

50.3068, 0.3488,  
0.3598

32.4314, 0.4632,  
0.4252

54.8689, 0.3306,  
0.3448

29.7651, 0.4859,  
0.4298

59.7827, 0.3145,  
0.3306

27.3704, 0.5057,  
0.4291

65.0570, 0.3003,  
0.3173

■ 25.4651, 0.5207,  
0.4248

■ 70.7003, 0.2877,  
0.3049

■ 76.2086, 0.2810,  
0.3014

■ 81.1749, 0.2816,  
0.3109

■ 86.3885, 0.2822,  
0.3202

# Harmonies

## Analogous

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



42.1987, 0.4006, 0.3589



42.1987, 0.3910, 0.3901



42.1987, 0.3600, 0.4076

# Triad

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



42.1987, 0.3910, 0.3901



42.1987, 0.2450, 0.3285



42.1987, 0.3029, 0.2677

# Complementary

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



42.1987, 0.3910, 0.3901



32.1264, 0.2455, 0.2583

# 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.



42.1987, 0.2635, 0.2581



42.1987, 0.3910, 0.3901



42.1987, 0.2321, 0.2894

# Square

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



42.1987, 0.3910, 0.3901



42.1987, 0.2756, 0.3716



42.1987, 0.2386, 0.2650



42.1987, 0.3478, 0.2910



# Rectangle

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



42.1987, 0.3910, 0.3901



42.1987, 0.3322, 0.4068



42.1987, 0.2386, 0.2650



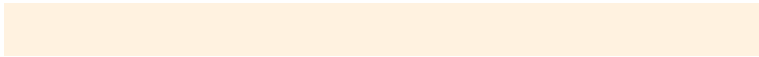
42.1987, 0.2886, 0.2628

# Sweetspot

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



42.2007, 0.3910, 0.3901



90.1004, 0.3323, 0.3463



28.6815, 0.3709, 0.2825



19.0657, 0.3346, 0.3482



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.



42.2007, 0.3910, 0.3901



64.8585, 0.4109, 0.4021



56.6083, 0.3690, 0.4317



12.2601, 0.3276, 0.3422



16.2141, 0.5189, 0.4262



0.9853, 0.4943, 0.4457

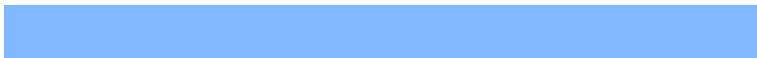


# Inverse Universe

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



32.1264, 0.2455, 0.2583



46.0830, 0.2314, 0.2406



22.1932, 0.2413, 0.2048



11.6213, 0.2983, 0.3154



7.2543, 0.1712, 0.1362



0.5238, 0.1819, 0.1748



# Previews

## White Background



This preview shows how the Yxy color 42.1987, 0.3910, 0.3901 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

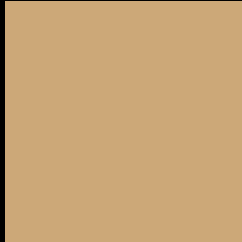
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.1987, 0.3910, 0.3901 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

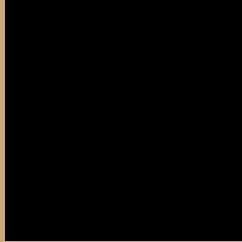
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.1987, 0.3910, 0.3901**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.1987, 0.3910, 0.3901.



This preview shows how white text looks on a background with the Yxy color 42.1987, 0.3910, 0.3901.

# 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

42.1987, 0.3910, 0.3901

### Protanopia

42.3686, 0.3706, 0.3987

### Deuteranopia

42.4034, 0.3954, 0.3880



## Tritanopia

42.1010, 0.3471, 0.3130

# Trichromacy



**Original Color**

42.1987, 0.3910, 0.3901

**Protanomaly**

42.3549, 0.3783, 0.3961

**Deuteranomaly**

42.2589, 0.3945, 0.3882

**Tritanomaly**

42.1494, 0.3636, 0.3418

# Monochromacy



**Original Color**

42.1987, 0.3910, 0.3901

**Achromatopsia**

41.7885, 0.3127, 0.3290

**Achromatomaly**

41.6493, 0.3395, 0.3520

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.1987, 0.3910, 0.3901 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, 168, 120)` looks like.

```
.text, #text, p{  
    color:rgb(204, 168, 120)  
}
```

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, 168, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 168, 120) }
```

## Border

The CSS property to change the border of an element to Yxy 42.1987, 0.3910, 0.3901 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, 168, 120) }
```

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

```
.border{ border-color:rgb(204, 168, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 168, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 168, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 168, 120);  
box-shadow:4px 4px 4px 4px rgb(204, 168,  
120) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.1987, 0.3910, 0.3901 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 168, 120) }
```

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

```
.background{ background-color: rgb(204,  
168, 120) }
```

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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