

# Converting Colors

Yxy(67.7717, 0.4157, 0.4992)

Have a look what the booklet for  
Yxy(67.7717, 0.4157, 0.4992)  
contains.

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**Color**

**Yxy(67.8820, 0.4157, 0.4993)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DEDE21
RGB	222, 222, 33
RGB Percent	87%, 87%, 13%
CMY	0.1295, 0.1294, 0.8709
CMYK	0.00, 0.00, 0.85, 0.13
HSL	60°, 74%, 50%
HSV	60°, 85%, 87%
XYZ	56.5162, 67.8820, 11.5561
YIQ	200.4540, 60.6690, -58.7790

# Conversions

## Conversions Part 2

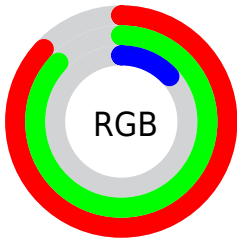
Format	Color
<a href="#">RYB</a>	<a href="#">33, 222, 33</a>
Decimal	<a href="#">14605857</a>
CIELab	<a href="#">85.95, -18.98, 81.08</a>
CIELCh	<a href="#">86, 83.271, 103.174</a>
Yxy	<a href="#">67.8820, 0.4157, 0.4993</a>
Android (android.graphics.Color)	<a href="#">4292795937 (0xFFDEDE21)</a>
YUV	<a href="#">200.4540, -82.5548, 18.8958</a>
Hunter-Lab	<a href="#">82.3905, -21.7404, 49.3573</a>

# Details

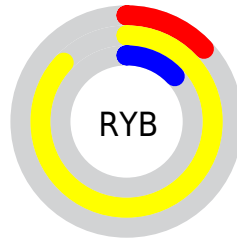
The Yxy color **67.8820, 0.4157, 0.4993** is a light color, and the websafe version is hex **CCCC00**. The color can be described as light washed yellow. A complement of this color would be **6.6804, 0.1583, 0.0737**, and the grayscale version is **58.5409, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.7001, 0.3986, 0.4709**, and **35.3188, 0.4142, 0.5093** is the 20% darker color. If you saturate the color by 10%, you get **67.7989, 0.4185, 0.5040**, and if you desaturate by 10%, it is **68.0533, 0.4103, 0.4905**.

# Distribution



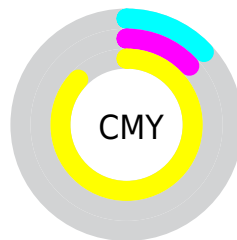
- Red (87%)
- Green (87%)
- Blue (13%)



- Red (13%)
- Yellow (87%)
- Blue (13%)



- Cyan (0%)
- Magenta (0%)
- Yellow (85%)
- Black (13%)



- Cyan (13%)
- Magenta (13%)
- Yellow (87%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.8820, 0.4157, 0.4993 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 67.8820, 0.4157, 0.4993 by changing the saturation by 10% instead.



67.8820, 0.4157,  
0.4993

67.8820, 0.4157,  
0.4993

453.0778, 0.3764,  
0.4246

49.8017, 0.4213,  
0.5135

116.1833, 0.4046,  
0.4754

35.2559, 0.4262,  
0.5292

147.1732, 0.3995,  
0.4654

23.8601, 0.4294,  
0.5459

183.2350, 0.3948,  
0.4566

15.2298, 0.4324,  
0.5676

224.7532, 0.3905,  
0.4487

8.9809, 0.4215,  
0.5785

272.1122, 0.3865,  
0.4417

4.7287, 0.4053,  
0.5947

325.6964, 0.3828,

2.0890, 0.3786,

0.4354

0.6214

385.8901, 0.3795,  
0.4297

0.6584, 0.1980,  
0.8020

0.0000, 0.0000,  
0.0000

67.8820, 0.4157,  
0.4993

67.8820, 0.4157,  
0.4993

67.7989, 0.4185,  
0.5040

68.0533, 0.4103,  
0.4905

67.7751, 0.4193,  
0.5053

68.3171, 0.4024,  
0.4773

68.6881, 0.3919,  
0.4600

69.1759, 0.3795,  
0.4394

69.7894, 0.3655,  
0.4162

70.5364, 0.3506,  
0.3916

71.4240, 0.3354,  
0.3665

72.4590, 0.3203,  
0.3416

73.6477, 0.3058,  
0.3175

# Harmonies

## Analogous

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



67.8820, 0.4865, 0.4360



67.8820, 0.4157, 0.4993



67.8820, 0.3244, 0.5176

# Triad

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



67.8820, 0.4157, 0.4993



67.8820, 0.1471, 0.2418



67.8820, 0.3760, 0.2399

# Complementary

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



67.8820, 0.4157, 0.4993



6.6804, 0.1583, 0.0737

# 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.



67.8820, 0.2728, 0.1991



67.8820, 0.4157, 0.4993



67.8820, 0.1560, 0.1943

# Square

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



67.8820, 0.4157, 0.4993



67.8820, 0.1720, 0.3337



67.8820, 0.1970, 0.1826



67.8820, 0.4712, 0.2983



# Rectangle

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



67.8820, 0.4157, 0.4993



67.8820, 0.2628, 0.4821



67.8820, 0.1970, 0.1826



67.8820, 0.3401, 0.2239

# Sweetspot

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



67.8852, 0.4157, 0.4993



96.4395, 0.3522, 0.3942



16.7241, 0.6103, 0.3299



20.5625, 0.3574, 0.4029



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.



67.8852, 0.4157, 0.4993



92.7739, 0.4193, 0.5053



56.9056, 0.3430, 0.5542



16.0295, 0.3267, 0.3522



40.2528, 0.4193, 0.5053



2.7901, 0.4193, 0.5053



# Inverse Universe

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



6.6804, 0.1583, 0.0737



7.2202, 0.1500, 0.0600



10.9059, 0.2179, 0.1054



13.2434, 0.2980, 0.3047



3.1328, 0.1500, 0.0600



0.2172, 0.1500, 0.0600



# Previews

## White Background



This preview shows how the Yxy color 67.8820, 0.4157, 0.4993 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 67.8820, 0.4157, 0.4993 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 67.8820, 0.4157, 0.4993**

## Background



This preview shows how black text looks on a background with the Yxy color 67.8820, 0.4157, 0.4993.



This preview shows how white text looks on a background with the Yxy color 67.8820, 0.4157, 0.4993.

# 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

67.8820, 0.4157, 0.4993

### Protanopia

67.5771, 0.4373, 0.4832

### Deuteranopia

67.4974, 0.4079, 0.4074



## Tritanopia

67.7862, 0.3233, 0.3121

# Trichromacy



## Original Color

67.8820, 0.4157, 0.4993

## Protanomaly

67.9093, 0.4292, 0.4891

## Deuteranomaly

66.9679, 0.4172, 0.4465

## Tritanomaly

66.4090, 0.3692, 0.3933

# Monochromacy



## Original Color

67.8820, 0.4157, 0.4993

## Achromatopsia

57.7580, 0.3127, 0.3290

## Achromatomaly

60.3857, 0.3624, 0.4111

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 67.8820, 0.4157, 0.4993 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(222, 222, 33)` looks like.

```
.text, #text, p{  
    color:rgb(222, 222, 33)  
}
```

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(222, 222, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 222, 33) }
```

## Border

The CSS property to change the border of an element to Yxy 67.8820, 0.4157, 0.4993 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(222, 222, 33) }
```

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

```
.border{ border-color:rgb(222, 222, 33) }
```

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

Here you see how a box with a 4 pixel rgb(222, 222, 33) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 222, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 222, 33);  
box-shadow:4px 4px 4px 4px rgb(222, 222,  
33) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.8820, 0.4157, 0.4993 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 222, 33) }
```

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

```
.background{ background-color: rgb(222,  
222, 33) }
```

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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