

# Converting Colors

$Y_{xy}(49.6463, 0.2997, 0.5990)$

Have a look what the booklet for  
Yxy(49.6463, 0.2997, 0.5990)  
contains.

<b>Yxy(49.6345, 0.2997, 0.5990)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(49.6345, 0.2997, 0.5990)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D904
RGB	0, 217, 4
RGB Percent	0%, 85%, 2%
CMY	1.0000, 0.1490, 0.9832
CMYK	1.00, 0.00, 0.98, 0.15
HSL	121°, 100%, 43%
HSV	121°, 100%, 85%
XYZ	24.8338, 49.6345, 8.3939
YIQ	127.8350, -60.9590, -112.2470

# Conversions

## Conversions Part 2

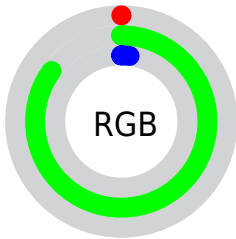
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 213, 217
Decimal	55556
CIELab	75.84, -76.23, 73.23
CIELCh	76, 105.709, 136.150
Yxy	49.6345, 0.2997, 0.5990
Android (android.graphics.Color)	4278245636 (0xFF00D904)
YUV	127.8350, -61.0507, -112.1113
Hunter-Lab	70.4518, -60.3704, 42.2521

# Details

The Yxy color **49.6345, 0.2997, 0.5990** is a dark color, and the websafe version is hex **00CC00**. The color can be described as dark washed green. A complement of this color would be **19.5423, 0.3260, 0.1569**, and the grayscale version is **21.7708, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.4271, 0.3122, 0.5388**, and **25.1416, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **49.6380, 0.2997, 0.5990**, and if you desaturate by 10%, it is **49.8684, 0.2999, 0.5906**.

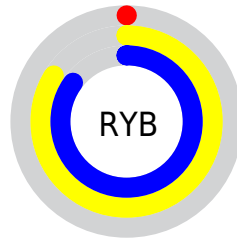
# Distribution



Red (0%)

Green (85%)

Blue (2%)



Red (0%)

Yellow (84%)

Blue (85%)

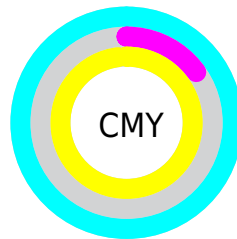


Cyan (100%)

Magenta (0%)

Yellow (98%)

Black (15%)



Cyan (100%)

Magenta (15%)


Yellow (98%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.6345, 0.2997, 0.5990 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 49.6345, 0.2997, 0.5990 by changing the saturation by 10% instead.




 49.6345, 0.2997,  
0.5990


 49.6345, 0.2997,  
0.5990


385.2349, 0.3194,  
0.4567

 35.1231, 0.2900,  
0.6333


 89.6331, 0.3104,  
0.5474


 23.7577, 0.2748,  
0.6750


 115.8891, 0.3134,  
0.5278


 15.1540, 0.2520,  
0.7284


 146.8286, 0.3154,  
0.5112

 8.9275, 0.2137,  
0.7863

 182.8363, 0.3168,  
0.4971

 4.6939, 0.1546,  
0.8454

 224.2963, 0.3178,  
0.4849

 2.0688, 0.0000,  
1.0000


 271.5932, 0.3186,


 0.6470, 0.0000,


0.4743


1.0000


325.1112, 0.3190,  
0.4650


 0.0000, 0.0000,  
0.0000


 49.6345, 0.2997,  
0.5990


 49.6345, 0.2997,  
0.5990


 49.6380, 0.2997,  
0.5990

 49.8684, 0.2999,  
0.5906

 50.3548, 0.3003,  
0.5742

 51.1745, 0.3012,  
0.5496

 52.3730, 0.3026,  
0.5188

 53.9883, 0.3042,  
0.4843

■ 56.0543, 0.3060,  
0.4489

■ 58.6010, 0.3078,  
0.4146

■ 61.6560, 0.3096,  
0.3828

■ 65.2448, 0.3112,  
0.3542

# Harmonies

## Analogous

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



49.6345, 0.4179, 0.5542



49.6345, 0.2997, 0.5990



49.6345, 0.1901, 0.4921

# Triad

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



49.6345, 0.2997, 0.5990



49.6345, 0.1172, 0.1503



49.6345, 0.5428, 0.2879

# Complementary

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



49.6345, 0.2997, 0.5990



19.5423, 0.3260, 0.1569

# 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.



49.6345, 0.4129, 0.2176



49.6345, 0.2997, 0.5990



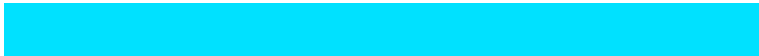
49.6345, 0.1685, 0.1430

# Square

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



49.6345, 0.2997, 0.5990



49.6345, 0.1018, 0.1978



49.6345, 0.2679, 0.1662



49.6345, 0.5786, 0.3658



# Rectangle

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



49.6345, 0.2997, 0.5990



49.6345, 0.1387, 0.3682



49.6345, 0.2679, 0.1662



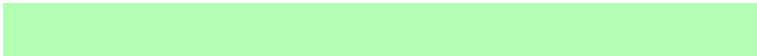
49.6345, 0.5072, 0.2633

# Sweetspot

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



49.6380, 0.2997, 0.5990



84.3400, 0.3078, 0.4155



63.8330, 0.4164, 0.5076



17.7011, 0.3070, 0.4299



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.



49.6380, 0.2997, 0.5990



71.5310, 0.2998, 0.5992



50.8011, 0.2713, 0.4968



14.6104, 0.3113, 0.3527



30.0483, 0.2996, 0.5987



1.9482, 0.2985, 0.5945



# Inverse Universe

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



19.5423, 0.3260, 0.1569



28.1596, 0.3260, 0.1570



15.7702, 0.5053, 0.2557



13.2702, 0.3141, 0.3064



11.8311, 0.3259, 0.1569

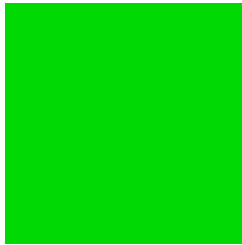


0.7679, 0.3250, 0.1564



# Previews

## White Background



This preview shows how the Yxy color 49.6345, 0.2997, 0.5990 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 49.6345, 0.2997, 0.5990 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

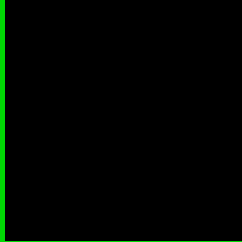
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

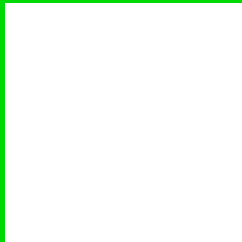
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.6345, 0.2997, 0.5990**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.6345, 0.2997, 0.5990.



This preview shows how white text looks on a background with the Yxy color 49.6345, 0.2997, 0.5990.

# 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**

49.6345, 0.2997, 0.5990

**Protanopia**

48.6731, 0.4403, 0.4886

**Deuteranopia**

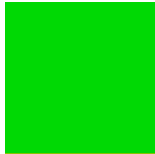
48.5795, 0.4611, 0.4512



## Tritanopia

49.5272, 0.2359, 0.3067

# Trichromacy



## Original Color

49.6345, 0.2997, 0.5990



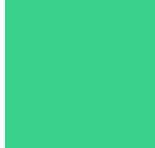
## Protanomaly

44.9234, 0.3627, 0.5496



## Deuteranomaly

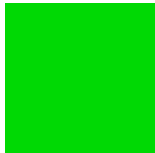
43.6564, 0.3754, 0.5271



## Tritanomaly

47.4186, 0.2650, 0.4364

# Monochromacy



## Original Color

49.6345, 0.2997, 0.5990



## Achromatopsia

21.5861, 0.3127, 0.3290



## Achromatomaly

27.5155, 0.3042, 0.4776

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.6345, 0.2997, 0.5990 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(0, 217, 4)` looks like.

```
.text, #text, p{  
    color:rgb(0, 217, 4)  
}
```

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(0, 217, 4) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 217, 4) }
```

## Border

The CSS property to change the border of an element to Yxy 49.6345, 0.2997, 0.5990 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(0, 217, 4) }
```

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

```
.border{ border-color:rgb(0, 217, 4) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 217, 4)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 217, 4); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 217, 4); box-shadow:4px  
4px 4px 4px rgb(0, 217, 4) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.6345, 0.2997, 0.5990 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 217, 4) }
```

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

```
.background{ background-color: rgb(0, 217,  
4) }
```

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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