

# Converting Colors

$Y_{xy}(56.5960, 0.2929, 0.5744)$

Have a look what the booklet for  
Yxy(56.5960, 0.2929, 0.5744)  
contains.

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# Color

**Yxy(56.8695, 0.2930, 0.5749)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00E637
RGB	0, 230, 55
RGB Percent	0%, 90%, 22%
CMY	1.0000, 0.0980, 0.7842
CMYK	1.00, 0.00, 0.76, 0.10
HSL	134°, 100%, 45%
HSV	134°, 100%, 90%
XYZ	28.9838, 56.8695, 13.0674
YIQ	141.2800, -80.9050, -103.1850

# Conversions

## Conversions Part 2

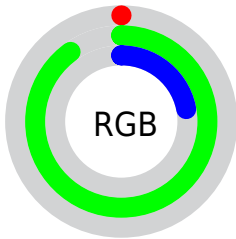
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 186, 230
Decimal	58935
CIELab	80.11, -77.71, 67.05
CIELCh	80, 102.634, 139.211
Yxy	56.8695, 0.2930, 0.5749
Android (android.graphics.Color)	4278249015 (0xFF00E637)
YUV	141.2800, -42.5360, -123.9026
Hunter-Lab	75.4119, -63.3662, 42.5145

# Details

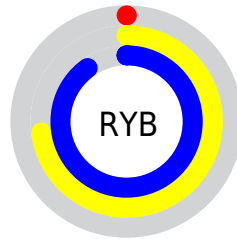
The Yxy color **56.8695, 0.2930, 0.5749** is a dark color, and the websafe version is hex **00CC00**. The color can be described as dark washed green. A complement of this color would be **19.9183, 0.3937, 0.1942**, and the grayscale version is **26.9494, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.1144, 0.3030, 0.5085**, and **29.8871, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **56.8741, 0.2930, 0.5749**, and if you desaturate by 10%, it is **57.2549, 0.2903, 0.5570**.

# Distribution



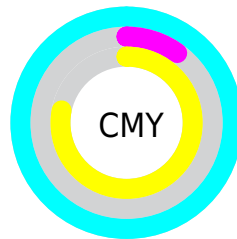
- Red (0%)
- Green (90%)
- Blue (22%)



- Red (0%)
- Yellow (73%)
- Blue (90%)



- Cyan (100%)
- Magenta (0%)
- Yellow (76%)
- Black (10%)




- Cyan (100%)
- Magenta (10%)
- Yellow (78%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 56.8695, 0.2930, 0.5749 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 56.8695, 0.2930, 0.5749 by changing the saturation by 10% instead.




 56.8695, 0.2930,  
0.5749


 56.8695, 0.2930,  
0.5749

412.9601, 0.3127,  
0.4466

 40.9005, 0.2848,  
0.6063


 100.2747, 0.3026,  
0.5282


 28.2413, 0.2726,  
0.6453


 128.4798, 0.3055,  
0.5106

 18.5077, 0.2536,  
0.6937


 161.5322, 0.3076,  
0.4957

 11.3151, 0.2268,  
0.7633

 199.8165, 0.3092,  
0.4830

 6.2792, 0.1767,  
0.8233

 243.7171, 0.3104,  
0.4720

 3.0156, 0.0676,  
0.9324

293.6183, 0.3114,

 1.1399, 0.0000,

0.4624

1.0000

349.9045, 0.3121,  
0.4540

■ 0.0118, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 56.8695, 0.2930,  
0.5749

■ 56.8695, 0.2930,  
0.5749

■ 56.8741, 0.2930,  
0.5749

■ 57.2549, 0.2903,  
0.5570

■ 57.9175, 0.2885,  
0.5343

■ 58.9359, 0.2881,  
0.5079

■ 60.3547, 0.2892,  
0.4793

■ 62.2117, 0.2916,  
0.4502

■ 64.5403, 0.2949,  
0.4218

■ 67.3705, 0.2990,  
0.3950

■ 70.7297, 0.3034,  
0.3705

■ 74.6435, 0.3081,  
0.3485

# Harmonies

## Analogous

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



56.8695, 0.4059, 0.5512



56.8695, 0.2930, 0.5749



56.8695, 0.1902, 0.4621

# Triad

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



56.8695, 0.2930, 0.5749



56.8695, 0.1297, 0.1574



56.8695, 0.5354, 0.2998

# Complementary

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



56.8695, 0.2930, 0.5749



19.9183, 0.3937, 0.1942

# 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.



56.8695, 0.4210, 0.2304



56.8695, 0.2930, 0.5749



56.8695, 0.1839, 0.1530

# Square

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



56.8695, 0.2930, 0.5749



56.8695, 0.1117, 0.1996



56.8695, 0.2838, 0.1783



56.8695, 0.5617, 0.3768



# Rectangle

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



56.8695, 0.2930, 0.5749



56.8695, 0.1435, 0.3502



56.8695, 0.2838, 0.1783



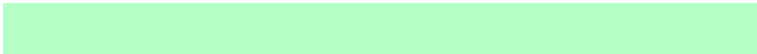
56.8695, 0.5050, 0.2756

# Sweetspot

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



56.8741, 0.2930, 0.5749



85.0665, 0.2989, 0.3955



65.8676, 0.3780, 0.5380



17.8671, 0.2971, 0.4066



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.



56.8741, 0.2930, 0.5749



71.8571, 0.2932, 0.5757



59.4502, 0.2497, 0.4191



16.1454, 0.3083, 0.3474



32.2124, 0.2923, 0.5724



2.3947, 0.2846, 0.5446



# Inverse Universe

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



19.9183, 0.3937, 0.1942



25.1543, 0.3942, 0.1945



17.1648, 0.5910, 0.3029



14.5532, 0.3174, 0.3113



11.2958, 0.3923, 0.1935

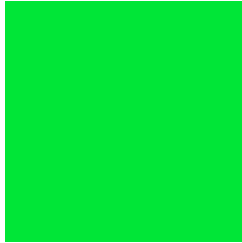


0.8489, 0.3797, 0.1865



# Previews

## White Background



This preview shows how the Yxy color 56.8695, 0.2930, 0.5749 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 56.8695, 0.2930, 0.5749 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

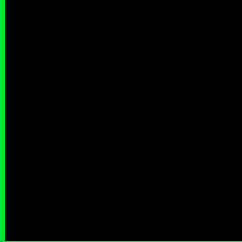
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

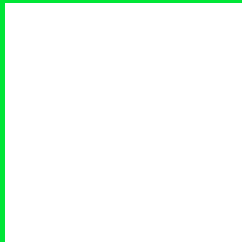
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 56.8695, 0.2930, 0.5749**

## **Background**



This preview shows how black text looks on a background with the Yxy color 56.8695, 0.2930, 0.5749.

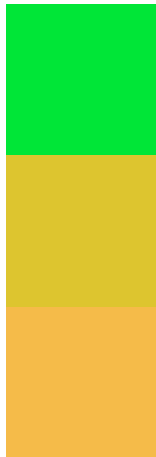


This preview shows how white text looks on a background with the Yxy color 56.8695, 0.2930, 0.5749.

# 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

56.8695, 0.2930, 0.5749

### Protanopia

55.5099, 0.4315, 0.4762

### Deuteranopia

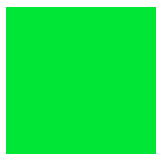
55.4342, 0.4491, 0.4397



## Tritanopia

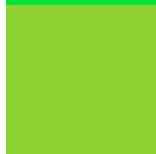
56.3522, 0.2347, 0.3052

# Trichromacy



## Original Color

56.8695, 0.2930, 0.5749



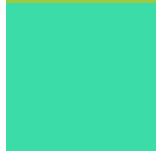
## Protanomaly

51.4939, 0.3542, 0.5309



## Deuteranomaly

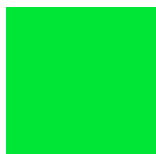
50.1731, 0.3635, 0.5060



## Tritanomaly

54.9742, 0.2551, 0.4062

# Monochromacy



## Original Color

56.8695, 0.2930, 0.5749



## Achromatopsia

26.6356, 0.3127, 0.3290



## Achromatomaly

33.1866, 0.2924, 0.4415

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  56.8695, 0.2930, 0.5749 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, 230, 55)` looks like.

```
.text, #text, p{  
    color:rgb(0, 230, 55)  
}
```

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, 230, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 230, 55) }
```

## Border

The CSS property to change the border of an element to Yxy 56.8695, 0.2930, 0.5749 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, 230, 55) }
```

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

```
.border{ border-color:rgb(0, 230, 55) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 230, 55)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 230, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 230, 55);  
box-shadow:4px 4px 4px 4px rgb(0, 230, 55)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 56.8695, 0.2930, 0.5749 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 230, 55) }
```

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

```
.background{ background-color: rgb(0, 230,  
55) }
```

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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