

# Converting Colors

$Y_{xy}(73.5913, 0.3170, 0.5865)$

Have a look what the booklet for  
Yxy(73.5913, 0.3170, 0.5865)  
contains.

<b>Yxy(73.5947, 0.3170, 0.5865)</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(73.5947, 0.3170, 0.5865)**

# Conversions

## Conversions Part 1

Format	Color
Hex	58FF00
RGB	88, 255, 0
RGB Percent	35%, 100%, 0%
CMY	0.6553, 0.0000, 0.9998
CMYK	0.66, 0.00, 1.00, 0.00
HSL	99°, 100%, 50%
HSV	99°, 100%, 100%
XYZ	39.7775, 73.5947, 12.1089
YIQ	175.9970, -17.6770, -114.7090

# Conversions

## Conversions Part 2

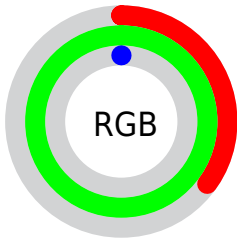
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 255, 167
Decimal	5832448
CIELab	88.73, -77.43, 84.39
CIELCh	89, 114.528, 132.535
Yxy	73.5947, 0.3170, 0.5865
Android (android.graphics.Color)	4284022528 (0xFF58FF00)
YUV	175.9970, -86.7665, -77.1734
Hunter-Lab	85.7874, -67.3617, 51.6823

# Details

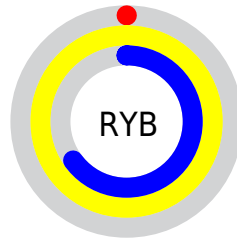
The Yxy color **73.5947, 0.3170, 0.5865** is a dark color, and the websafe version is hex **66FF00**. The color can be described as dark saturated green. A complement of this color would be **15.4526, 0.2342, 0.1064**, and the grayscale version is **43.8692, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.5794, 0.3357, 0.5154**, and **39.9325, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **73.5883, 0.3170, 0.5865**, and if you desaturate by 10%, it is **74.5724, 0.3223, 0.5761**.

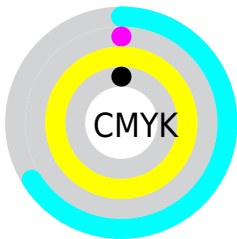
# Distribution



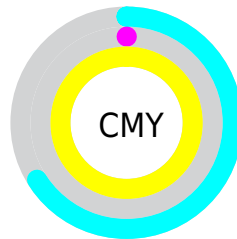
- Red (35%)
- Green (100%)
- Blue (0%)



- Red (0%)
- Yellow (100%)
- Blue (65%)



- Cyan (66%)
- Magenta (0%)
- Yellow (100%)
- Black (0%)




- Cyan (66%)
- Magenta (0%)
- Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 73.5947, 0.3170, 0.5865 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 73.5947, 0.3170, 0.5865 by changing the saturation by 10% instead.





 73.5947, 0.3170,  
0.5865

 73.5947, 0.3170,  
0.5865

473.0734, 0.3280,  
0.4613


 54.4624, 0.3106,  
0.6140


 124.3211, 0.3239,  
0.5434


 38.9714, 0.3006,  
0.6464


 156.6840, 0.3257,  
0.5264

 26.7375, 0.2851,  
0.6843


 194.2258, 0.3268,  
0.5117

 17.3762, 0.2639,  
0.7361

 237.3310, 0.3275,  
0.4989

 10.5031, 0.2237,  
0.7763

 286.3840, 0.3279,  
0.4877

 5.7338, 0.1692,  
0.8308


 341.7691, 0.3280,

 2.6839, 0.0292,

0.4779

0.9708


403.8708, 0.3280,  
0.4691

 0.9690, 0.0000,  
1.0000

 0.0000, 0.0000,  
0.0000


 73.5947, 0.3170,  
0.5865


 73.5947, 0.3170,  
0.5865

 73.5883, 0.3170,  
0.5865


 74.5724, 0.3223,  
0.5761


 75.8480, 0.3267,  
0.5594


 77.4561, 0.3294,  
0.5364


 79.4243, 0.3304,  
0.5083

 81.7769, 0.3298,  
0.4772

 84.5355, 0.3278,  
0.4449

 87.7201, 0.3248,  
0.4130

 91.3491, 0.3211,  
0.3826

 95.4400, 0.3170,  
0.3545

# Harmonies

## Analogous

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



73.5947, 0.4307, 0.5370



73.5947, 0.3170, 0.5865



73.5947, 0.2078, 0.5021

# Triad

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



73.5947, 0.3170, 0.5865



73.5947, 0.1199, 0.1600



73.5947, 0.5208, 0.2822

# Complementary

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



73.5947, 0.3170, 0.5865



15.4526, 0.2342, 0.1064

# 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.



73.5947, 0.3910, 0.2147



73.5947, 0.3170, 0.5865



73.5947, 0.1657, 0.1484

# Square

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



73.5947, 0.3170, 0.5865



73.5947, 0.1090, 0.2134



73.5947, 0.2561, 0.1676



73.5947, 0.5692, 0.3581



# Rectangle

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



73.5947, 0.3170, 0.5865



73.5947, 0.1534, 0.3878



73.5947, 0.2561, 0.1676



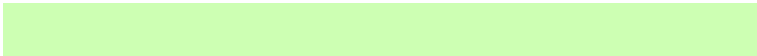
73.5947, 0.4835, 0.2583

# Sweetspot

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



73.5899, 0.3170, 0.5865



87.7138, 0.3248, 0.4130



48.4477, 0.4997, 0.4415



18.4757, 0.3262, 0.4263



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.



73.5899, 0.3170, 0.5865



73.5883, 0.3170, 0.5865



71.6621, 0.2971, 0.5895



20.4724, 0.3168, 0.3532



38.5256, 0.3181, 0.5856



3.8089, 0.3267, 0.5788



# Inverse Universe

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



15.4526, 0.2342, 0.1064



15.4498, 0.2342, 0.1064



26.2581, 0.3638, 0.1778



17.9687, 0.3082, 0.3052



8.1588, 0.2355, 0.1071

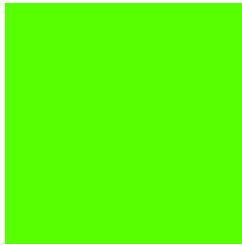


0.8550, 0.2453, 0.1125



# Previews

## White Background



This preview shows how the Yxy color 73.5947, 0.3170, 0.5865 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

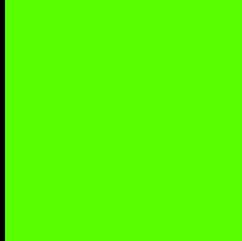
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 73.5947, 0.3170, 0.5865 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

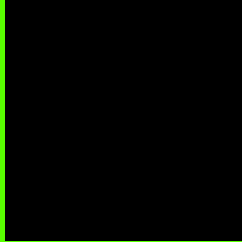
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

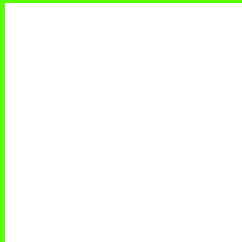
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 73.5947, 0.3170, 0.5865**

## **Background**



This preview shows how black text looks on a background with the Yxy color 73.5947, 0.3170, 0.5865.



This preview shows how white text looks on a background with the Yxy color 73.5947, 0.3170, 0.5865.

# 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

73.5947, 0.3170, 0.5865

### Protanopia

71.8526, 0.4410, 0.4881

### Deuteranopia

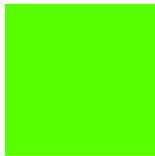
71.6862, 0.3876, 0.3907



## Tritanopia

72.6999, 0.2477, 0.3068

# Trichromacy



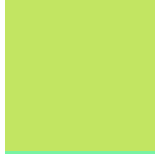
## Original Color

73.5947, 0.3170, 0.5865



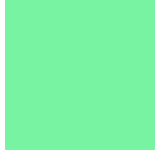
## Protanomaly

69.2250, 0.3866, 0.5312



## Deuteranomaly

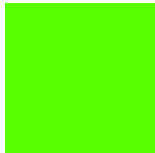
68.3898, 0.3673, 0.4787



## Tritanomaly

70.7029, 0.2852, 0.4353

# Monochromacy



## Original Color

73.5947, 0.3170, 0.5865



## Achromatopsia

43.4154, 0.3127, 0.3290



## Achromatomaly

50.7618, 0.3289, 0.4605

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 73.5947, 0.3170, 0.5865 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(88, 255, 0)` looks like.

```
.text, #text, p{  
    color:rgb(88, 255, 0)  
}
```

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(88, 255, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(88, 255, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 73.5947, 0.3170, 0.5865 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(88, 255, 0) }
```

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

```
.border{ border-color:rgb(88, 255, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(88, 255, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(88, 255, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(88, 255, 0);  
box-shadow:4px 4px 4px 4px rgb(88, 255, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 73.5947, 0.3170, 0.5865 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(88, 255, 0) }
```

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

```
.background{ background-color: rgb(88, 255,  
0) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor