

# Converting Colors

$Y_{xy}(70.7854, 0.3210, 0.5833)$

Have a look what the booklet for  
Yxy(70.7854, 0.3210, 0.5833)  
contains.

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**Color**

**Yxy(70.8580, 0.3211, 0.5832)**

# Conversions

## Conversions Part 1

Format	Color
Hex	60FA00
RGB	96, 250, 0
RGB Percent	38%, 98%, 0%
CMY	0.6234, 0.0196, 0.9989
CMYK	0.62, 0.00, 1.00, 0.02
HSL	97°, 100%, 49%
HSV	97°, 100%, 98%
XYZ	39.0132, 70.8580, 11.6274
YIQ	175.4540, -11.5340, -110.3980

# Conversions

## Conversions Part 2

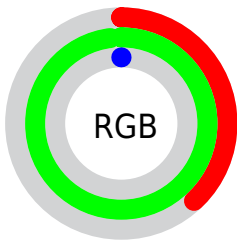
Format	Color
<a href="#">RYB</a>	<a href="#">0, 250, 154</a>
Decimal	<a href="#">6355456</a>
CIELab	<a href="#">87.42, -74.17, 83.42</a>
CIELCh	<a href="#">87, 111.623, 131.642</a>
Yxy	<a href="#">70.8580, 0.3211, 0.5832</a>
Android (android.graphics.Color)	<a href="#">4284545536 (0xFF60FA00)</a>
YUV	<a href="#">175.4540, -86.4988, -69.6812</a>
Hunter-Lab	<a href="#">84.1772, -64.5815, 50.7343</a>

# Details

The Yxy color **70.8580, 0.3211, 0.5832** is a dark color, and the websafe version is hex **66FF00**. The color can be described as dark saturated chartreuse. A complement of this color would be **13.8012, 0.2253, 0.1015**, and the grayscale version is **43.6023, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.0792, 0.3391, 0.5144**, and **37.6993, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **70.8514, 0.3210, 0.5833**, and if you desaturate by 10%, it is **71.8517, 0.3266, 0.5727**.

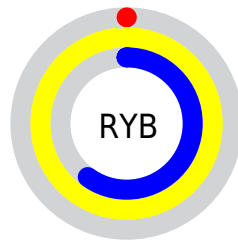
# Distribution



Red (38%)

Green (98%)

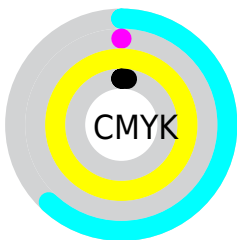
Blue (0%)



Red (0%)

Yellow (98%)

Blue (60%)

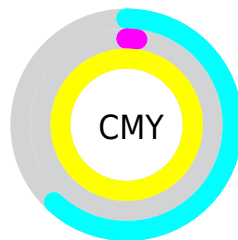


Cyan (62%)

Magenta (0%)

Yellow (100%)

Black (2%)



Cyan (62%)

Magenta (2%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.8580, 0.3211, 0.5832 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 70.8580, 0.3211, 0.5832 by changing the saturation by 10% instead.





 70.8580, 0.3211,  
0.5832


 70.8580, 0.3211,  
0.5832


463.5569, 0.3300,  
0.4592

 52.2263, 0.3150,  
0.6105


 120.4315, 0.3274,  
0.5404


 37.1855, 0.3055,  
0.6427


 152.1421, 0.3288,  
0.5236

 25.3512, 0.2902,  
0.6804


 188.9812, 0.3297,  
0.5090

 16.3389, 0.2688,  
0.7312

 231.3331, 0.3302,  
0.4964

 9.7643, 0.2284,  
0.7716

 279.5822, 0.3304,  
0.4853

 5.2429, 0.1729,  
0.8271


 334.1130, 0.3304,

 2.3905, 0.0091,

0.4756

0.9909


395.3097, 0.3302,  
0.4669


 0.8210, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 70.8580, 0.3211,  
0.5832


 70.8580, 0.3211,  
0.5832


 70.8514, 0.3210,  
0.5833

 71.8517, 0.3266,  
0.5727

 73.1057, 0.3309,  
0.5561

 74.6585, 0.3334,  
0.5333


 76.5345, 0.3340,  
0.5058

 78.7551, 0.3329,  
0.4753

 81.3392, 0.3303,  
0.4435

 84.3046, 0.3267,  
0.4121

 87.6675, 0.3223,  
0.3821

 91.4431, 0.3176,  
0.3542

# Harmonies

## Analogous

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



70.8580, 0.4335, 0.5329



70.8580, 0.3211, 0.5832



70.8580, 0.2122, 0.5039

# Triad

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



70.8580, 0.3211, 0.5832



70.8580, 0.1207, 0.1625



70.8580, 0.5153, 0.2808

# Complementary

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



70.8580, 0.3211, 0.5832



13.8012, 0.2253, 0.1015

# 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.



70.8580, 0.3858, 0.2141



70.8580, 0.3211, 0.5832



70.8580, 0.1651, 0.1499

# Square

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



70.8580, 0.3211, 0.5832



70.8580, 0.1109, 0.2173



70.8580, 0.2534, 0.1680



70.8580, 0.5665, 0.3562



# Rectangle

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



70.8580, 0.3211, 0.5832



70.8580, 0.1571, 0.3923



70.8580, 0.2534, 0.1680



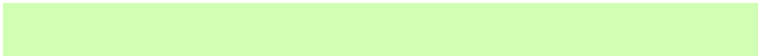
70.8580, 0.4777, 0.2571

# Sweetspot

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



70.8610, 0.3211, 0.5832



88.1405, 0.3267, 0.4125



42.1720, 0.5137, 0.4303



18.5753, 0.3284, 0.4257



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.



70.8610, 0.3211, 0.5832



74.1047, 0.3210, 0.5833



68.4447, 0.2985, 0.5944



19.6336, 0.3174, 0.3531



37.6579, 0.3222, 0.5824



3.5466, 0.3314, 0.5751



# Inverse Universe

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



13.8012, 0.2253, 0.1015



14.4097, 0.2252, 0.1014



25.7678, 0.3483, 0.1693



17.1728, 0.3076, 0.3052



7.3974, 0.2267, 0.1023

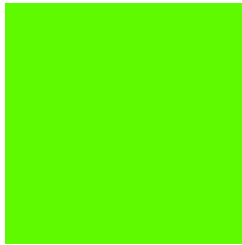


0.7461, 0.2378, 0.1084



# Previews

## White Background



This preview shows how the Yxy color 70.8580, 0.3211, 0.5832 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

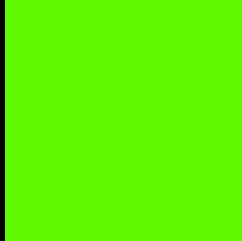
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.8580, 0.3211, 0.5832 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

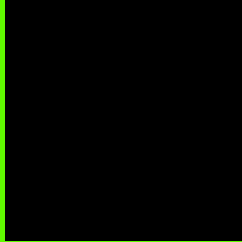
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

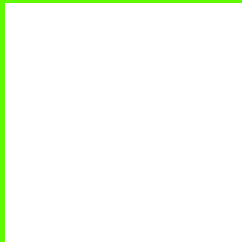
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 70.8580, 0.3211, 0.5832**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.8580, 0.3211, 0.5832.



This preview shows how white text looks on a background with the Yxy color 70.8580, 0.3211, 0.5832.

# 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

70.8580, 0.3211, 0.5832

### Protanopia

69.5553, 0.4405, 0.4884

### Deuteranopia

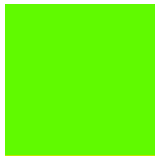
69.2466, 0.3994, 0.4007



## Tritanopia

70.0815, 0.2482, 0.3065

# Trichromacy



## Original Color

70.8580, 0.3211, 0.5832



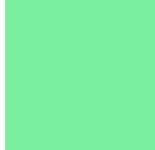
## Protanomaly

67.6700, 0.3893, 0.5291



## Deuteranomaly

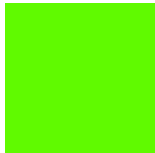
66.4420, 0.3757, 0.4824



## Tritanomaly

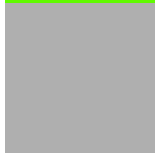
68.4820, 0.2873, 0.4336

# Monochromacy



## Original Color

70.8580, 0.3211, 0.5832



## Achromatopsia

42.8690, 0.3127, 0.3290



## Achromatomaly

49.4997, 0.3317, 0.4581

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.8580, 0.3211, 0.5832 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(96, 250, 0)` looks like.

```
.text, #text, p{  
    color:rgb(96, 250, 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(96, 250, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(96, 250, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 70.8580, 0.3211, 0.5832 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(96, 250, 0) }
```

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

```
.border{ border-color:rgb(96, 250, 0) }
```

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

Here you see how a box with a 4 pixel rgb(96, 250, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(96, 250, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(96, 250, 0);  
box-shadow:4px 4px 4px 4px rgb(96, 250, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 70.8580, 0.3211, 0.5832 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(96, 250, 0) }
```

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

```
.background{ background-color: rgb(96, 250,  
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](#).

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