

# Converting Colors

$Y_{xy}(75.6374, 0.3255, 0.5603)$

Have a look what the booklet for  
Yxy(75.6374, 0.3255, 0.5603)  
contains.

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**Color**

**Yxy(75.6810, 0.3255, 0.5603)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 77FF33                       |
| RGB         | 119, 255, 51                 |
| RGB Percent | 47%, 100%, 20%               |
| CMY         | 0.5333, 0.0000, 0.7999       |
| CMYK        | 0.53, 0.00, 0.80, 0.00       |
| HSL         | 100°, 100%, 60%              |
| HSV         | 100°, 80%, 100%              |
| XYZ         | 43.9660, 75.6810, 15.4253    |
| YIQ         | 191.0800, -15.5720, -92.2760 |

# Conversions

## Conversions Part 2

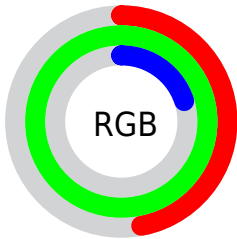
| <b>Format</b>                       | <b>Color</b>                    |
|-------------------------------------|---------------------------------|
| <b>RYB</b>                          | 51, 255, 187                    |
| Decimal                             | 7864115                         |
| CIELab                              | 89.71, -68.96, 78.00            |
| CIELCh                              | 90, 104.113, 131.481            |
| Yxy                                 | 75.6810, 0.3255,<br>0.5603      |
| Android<br>(android.graphics.Color) | 4286054195<br>(0xFF77FF33)      |
| YUV                                 | 191.0800, -69.0594,<br>-63.2142 |
| Hunter-Lab                          | 86.9948, -62.0294,<br>50.3835   |

# Details

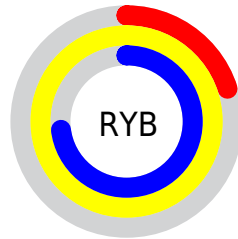
The Yxy color **75.6810, 0.3255, 0.5603** is a dark color, and the websafe version is hex **66FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **20.1591, 0.2542, 0.1290**, and the grayscale version is **52.5670, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.6800, 0.3425, 0.4875**, and **40.4680, 0.3081, 0.5936** is the 20% darker color. If you saturate the color by 10%, you get **74.4173, 0.3212, 0.5770**, and if you desaturate by 10%, it is **77.2839, 0.3283, 0.5371**.

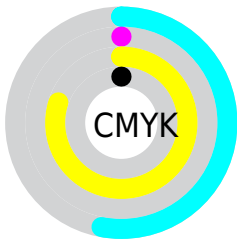
# Distribution



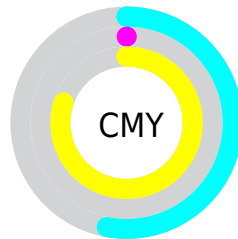
- Red (47%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (73%)



- Cyan (53%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)




- Cyan (53%)
- Magenta (0%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 75.6810, 0.3255, 0.5603 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 75.6810, 0.3255, 0.5603 by changing the saturation by 10% instead.




 75.6810, 0.3255,  
0.5603

 75.6810, 0.3255,  
0.5603


480.2550, 0.3299,  
0.4483


 56.1710, 0.3213,  
0.5852


 127.2759, 0.3295,  
0.5215


 40.3400, 0.3145,  
0.6150

 160.1295, 0.3303,  
0.5063

 27.8038, 0.3033,  
0.6505


 198.1998, 0.3307,  
0.4932

 18.1778, 0.2856,  
0.6939

 241.8712, 0.3308,  
0.4818

 11.0777, 0.2561,  
0.7439

 291.5280, 0.3307,  
0.4719

 6.1191, 0.2070,  
0.7930


347.5546, 0.3305,

 2.9176, 0.1181,


0.4631


0.8819


410.3355, 0.3302,  
0.4553


 1.0889, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000

 75.6810, 0.3255,  
0.5603


 75.6810, 0.3255,  
0.5603

 74.4173, 0.3212,  
0.5770

 77.2839, 0.3283,  
0.5371

 73.4513, 0.3159,  
0.5874

 79.2530, 0.3294,  
0.5089

 73.4502, 0.3159,  
0.5874

 81.6134, 0.3289,  
0.4776

 84.3873, 0.3271,  
0.4452

 87.5952, 0.3243,  
0.4131

 91.2560, 0.3207,  
0.3827

 95.3875, 0.3168,  
0.3545

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



75.6810, 0.4306, 0.5210



75.6810, 0.3255, 0.5603



75.6810, 0.2224, 0.4868

# Triad

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



75.6810, 0.3255, 0.5603



75.6810, 0.1319, 0.1740



75.6810, 0.4978, 0.2857

# Complementary

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



75.6810, 0.3255, 0.5603



20.1591, 0.2542, 0.1290

# 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.



75.6810, 0.3798, 0.2219



75.6810, 0.3255, 0.5603



75.6810, 0.1747, 0.1608

# Square

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



75.6810, 0.3255, 0.5603



75.6810, 0.1232, 0.2277



75.6810, 0.2581, 0.1779



75.6810, 0.5476, 0.3586



# Rectangle

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



75.6810, 0.3255, 0.5603



75.6810, 0.1696, 0.3884



75.6810, 0.2581, 0.1779



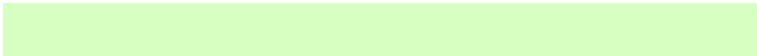
75.6810, 0.4633, 0.2629

# Sweetspot

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



75.6814, 0.3255, 0.5603



89.7315, 0.3222, 0.3946



57.0446, 0.4670, 0.4468



18.9299, 0.3235, 0.4056



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.



75.6814, 0.3255, 0.5603



73.8062, 0.3180, 0.5838



72.8810, 0.2931, 0.5510



20.4621, 0.3166, 0.3532



38.4518, 0.3170, 0.5865



3.8008, 0.3255, 0.5798



# Inverse Universe

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



20.1591, 0.2542, 0.1290



16.3739, 0.2402, 0.1108



28.8513, 0.3570, 0.1857



17.9794, 0.3084, 0.3052



8.3245, 0.2382, 0.1086

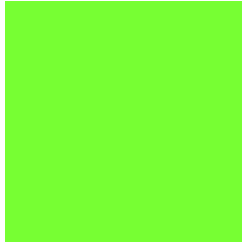


0.8703, 0.2477, 0.1138



# Previews

## White Background



This preview shows how the Yxy color 75.6810, 0.3255, 0.5603 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

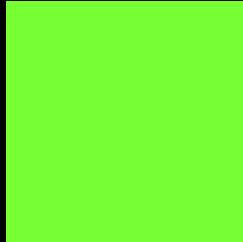
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 75.6810, 0.3255, 0.5603 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

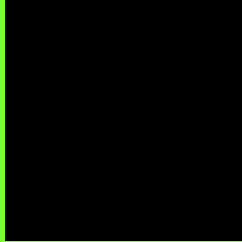
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

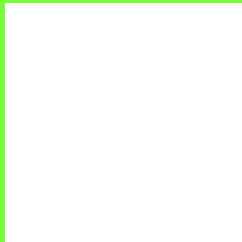
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 75.6810, 0.3255, 0.5603**

## **Background**



This preview shows how black text looks on a background with the Yxy color 75.6810, 0.3255, 0.5603.



This preview shows how white text looks on a background with the Yxy color 75.6810, 0.3255, 0.5603.

# 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

75.6810, 0.3255, 0.5603

### Protanopia

74.1812, 0.4353, 0.4802

### Deuteranopia

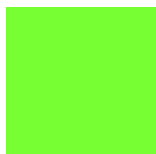
74.1560, 0.3775, 0.3825



## Tritanopia

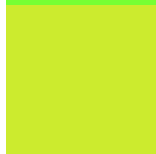
75.1593, 0.2571, 0.3085

# Trichromacy



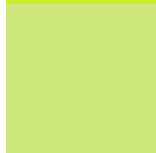
## Original Color

75.6810, 0.3255, 0.5603



## Protanomaly

72.4513, 0.3902, 0.5130



## Deuteranomaly

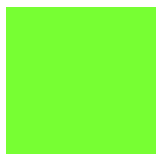
71.7289, 0.3621, 0.4504



## Tritanomaly

73.9669, 0.2877, 0.4078

# Monochromacy



## Original Color

75.6810, 0.3255, 0.5603



## Achromatopsia

52.0996, 0.3127, 0.3290



## Achromatomaly

57.9859, 0.3258, 0.4265

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 75.6810, 0.3255, 0.5603 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(119, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(119, 255, 51)  
}
```

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(119, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 255, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 75.6810, 0.3255, 0.5603 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(119, 255, 51) }
```

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

```
.border{ border-color:rgb(119, 255, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(119, 255, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(119, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(119, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(119, 255,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 75.6810, 0.3255, 0.5603 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 255, 51) }
```

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

```
.background{ background-color: rgb(119,  
255, 51) }
```

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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