

# Converting Colors

$Y_{xy}(70.2633, 0.3285, 0.5633)$

Have a look what the booklet for  
Yxy(70.2633, 0.3285, 0.5633)  
contains.

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**Color**

**Yxy(70.5332, 0.3285, 0.5633)**

# Conversions

## Conversions Part 1

Format	Color
Hex	76F729
RGB	118, 247, 41
RGB Percent	46%, 97%, 16%
CMY	0.5373, 0.0314, 0.8390
CMYK	0.52, 0.00, 0.83, 0.03
HSL	98°, 93%, 56%
HSV	98°, 83%, 97%
XYZ	41.1329, 70.5332, 13.5482
YIQ	184.9450, -10.7580, -91.4140

# Conversions

## Conversions Part 2

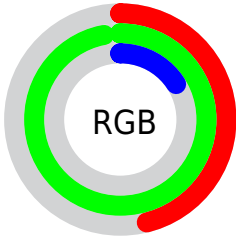
Format	Color
<a href="#">RYB</a>	<a href="#">41, 247, 170</a>
Decimal	<a href="#">7796521</a>
CIELab	<a href="#">87.26, -66.88, 78.18</a>
CIELCh	<a href="#">87, 102.884, 130.544</a>
Yxy	<a href="#">70.5332, 0.3285, 0.5633</a>
Android (android.graphics.Color)	<a href="#">4285986601 (0xFF76F729)</a>
YUV	<a href="#">184.9450, -70.9649, -58.7108</a>
Hunter-Lab	<a href="#">83.9840, -59.5481, 49.2243</a>

# Details

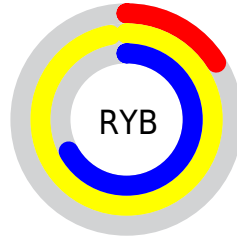
The Yxy color **70.5332, 0.3285, 0.5633** is a dark color, and the websafe version is hex **66FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **16.8581, 0.2433, 0.1200**, and the grayscale version is **48.8954, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.4053, 0.3448, 0.4944**, and **36.9531, 0.3092, 0.5927** is the 20% darker color. If you saturate the color by 10%, you get **69.4184, 0.3237, 0.5777**, and if you desaturate by 10%, it is **71.9397, 0.3317, 0.5425**.

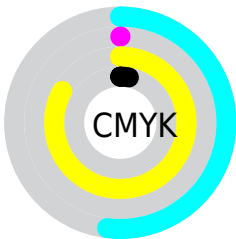
# Distribution



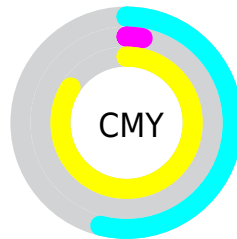
- Red (46%)
- Green (97%)
- Blue (16%)



- Red (16%)
- Yellow (97%)
- Blue (67%)



- Cyan (52%)
- Magenta (0%)
- Yellow (83%)
- Black (3%)




- Cyan (54%)
- Magenta (3%)
- Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.5332, 0.3285, 0.5633 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 70.5332, 0.3285, 0.5633 by changing the saturation by 10% instead.





 70.5332, 0.3285,  
0.5633


 70.5332, 0.3285,  
0.5633


462.4200, 0.3319,  
0.4489


 51.9613, 0.3242,  
0.5888


 119.9688, 0.3324,  
0.5236


 36.9743, 0.3171,  
0.6193


 151.6014, 0.3331,  
0.5081

 25.1876, 0.3051,  
0.6555


 188.3563, 0.3334,  
0.4947

 16.2169, 0.2872,  
0.7028

 230.6179, 0.3333,  
0.4831

 9.6777, 0.2528,  
0.7472

 278.7707, 0.3331,  
0.4729

 5.1858, 0.2005,  
0.7995

333.1991, 0.3328,

 2.3567, 0.0722,

0.4639

0.9278

394.2874, 0.3324,  
0.4560

0.8035, 0.0000,  
1.0000

0.0000, 0.0000,  
0.0000

70.5332, 0.3285,  
0.5633

70.5332, 0.3285,  
0.5633

69.4184, 0.3237,  
0.5777


71.9397, 0.3317,  
0.5425

68.8141, 0.3200,  
0.5841

73.6545, 0.3331,  
0.5163

75.7025, 0.3326,  
0.4865

78.1033, 0.3307,  
0.4548

 80.8749, 0.3275,  
0.4230

 84.0337, 0.3235,  
0.3923

 87.5952, 0.3190,  
0.3636

 91.5738, 0.3143,  
0.3373

 95.0042, 0.3131,  
0.3214

# Harmonies

## Analogous

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



70.5332, 0.4343, 0.5201



70.5332, 0.3285, 0.5633



70.5332, 0.2242, 0.4931

# Triad

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



70.5332, 0.3285, 0.5633



70.5332, 0.1297, 0.1735



70.5332, 0.4969, 0.2828

# Complementary

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



70.5332, 0.3285, 0.5633



16.8581, 0.2433, 0.1200

# 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.



70.5332, 0.3763, 0.2191



70.5332, 0.3285, 0.5633



70.5332, 0.1715, 0.1594

# Square

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



70.5332, 0.3285, 0.5633



70.5332, 0.1219, 0.2290



70.5332, 0.2541, 0.1757



70.5332, 0.5497, 0.3559



# Rectangle

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



70.5332, 0.3285, 0.5633



70.5332, 0.1701, 0.3939



70.5332, 0.2541, 0.1757



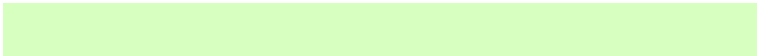
70.5332, 0.4613, 0.2601

# Sweetspot

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



70.5362, 0.3285, 0.5633



89.7499, 0.3242, 0.3973



47.9618, 0.4828, 0.4388



18.9493, 0.3257, 0.4080



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.



70.5362, 0.3285, 0.5633



73.9674, 0.3199, 0.5842



67.3793, 0.2960, 0.5677



18.7735, 0.3172, 0.3531



36.4664, 0.3212, 0.5832



3.2616, 0.3308, 0.5755



# Inverse Universe

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



16.8581, 0.2433, 0.1200



14.6657, 0.2274, 0.1026



26.6911, 0.3467, 0.1764



16.4409, 0.3078, 0.3052



7.3060, 0.2290, 0.1035

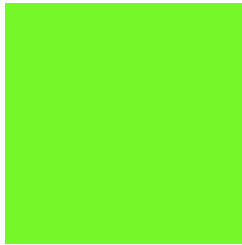


0.7006, 0.2405, 0.1098



# Previews

## White Background



This preview shows how the Yxy color 70.5332, 0.3285, 0.5633 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

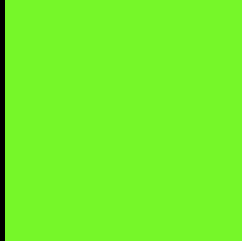
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.5332, 0.3285, 0.5633 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

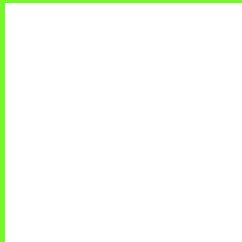
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 70.5332, 0.3285, 0.5633**

## Background



This preview shows how black text looks on a background with the Yxy color 70.5332, 0.3285, 0.5633.

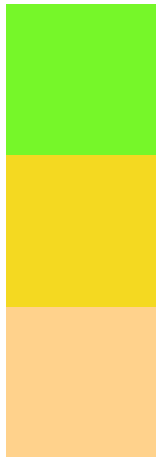


This preview shows how white text looks on a background with the Yxy color 70.5332, 0.3285, 0.5633.

# 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

70.5332, 0.3285, 0.5633

### Protanopia

68.9686, 0.4369, 0.4829

### Deuteranopia

69.2466, 0.3994, 0.4007



## Tritanopia

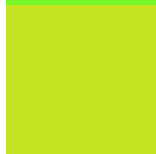
70.0463, 0.2558, 0.3079

# Trichromacy



## Original Color

70.5332, 0.3285, 0.5633



## Protanomaly

67.6199, 0.3920, 0.5162



## Deuteranomaly

66.7540, 0.3756, 0.4637



## Tritanomaly

68.5835, 0.2893, 0.4103

# Monochromacy



## Original Color

70.5332, 0.3285, 0.5633



## Achromatopsia

48.5150, 0.3127, 0.3290



## Achromatomaly

54.3823, 0.3283, 0.4303

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.5332, 0.3285, 0.5633 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(118, 247, 41)` looks like.

```
.text, #text, p{  
    color:rgb(118, 247, 41)  
}
```

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(118, 247, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 247, 41) }
```

## Border

The CSS property to change the border of an element to Yxy 70.5332, 0.3285, 0.5633 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(118, 247, 41) }
```

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

```
.border{ border-color:rgb(118, 247, 41) }
```

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

Here you see how a box with a 4 pixel rgb(118, 247, 41) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(118, 247, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(118, 247, 41);  
box-shadow:4px 4px 4px 4px rgb(118, 247,  
41) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.5332, 0.3285, 0.5633 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 247, 41) }
```

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

```
.background{ background-color: rgb(118,  
247, 41) }
```

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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