

# Converting Colors

$Y_{xy}(71.9770, 0.2910, 0.5676)$

Have a look what the booklet for  
Yxy(71.9770, 0.2910, 0.5676)  
contains.

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# Color

**Yxy(71.9749, 0.2910, 0.5677)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FF47
RGB	0, 255, 71
RGB Percent	0%, 100%, 28%
CMY	1.0000, 0.0000, 0.7214
CMYK	1.00, 0.00, 0.72, 0.00
HSL	137°, 100%, 50%
HSV	137°, 100%, 100%
XYZ	36.8940, 71.9749, 17.9145
YIQ	157.7790, -92.9160, -111.2840

# Conversions

## Conversions Part 2

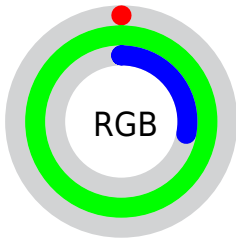
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 199, 255
Decimal	65351
CIELab	87.96, -83.35, 69.64
CIELCh	88, 108.620, 140.121
Yxy	71.9749, 0.2910, 0.5677
Android (android.graphics.Color)	4278255431 (0xFF00FF47)
YUV	157.7790, -42.7820, -138.3722
Hunter-Lab	84.8380, -70.8413, 46.8669

# Details

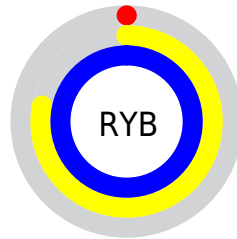
The Yxy color **71.9749, 0.2910, 0.5677** is a dark color, and the websafe version is hex **00FF33**. The color can be described as dark saturated green. A complement of this color would be **24.7191, 0.4087, 0.2025**, and the grayscale version is **34.3176, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.9565, 0.3001, 0.4893**, and **39.4799, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **71.9754, 0.2910, 0.5677**, and if you desaturate by 10%, it is **72.4617, 0.2879, 0.5490**.

# Distribution



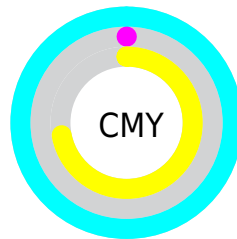
- Red (0%)
- Green (100%)
- Blue (28%)



- Red (0%)
- Yellow (78%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (72%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (72%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 71.9749, 0.2910, 0.5677 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 71.9749, 0.2910, 0.5677 by changing the saturation by 10% instead.





 71.9749, 0.2910,  
0.5677


 71.9749, 0.2910,  
0.5677


467.4542, 0.3105,  
0.4476


 53.1382, 0.2838,  
0.5960


 122.0208, 0.3000,  
0.5249


 37.9131, 0.2733,  
0.6307


 153.9988, 0.3028,  
0.5085

 25.9152, 0.2579,  
0.6736

 191.1261, 0.3049,  
0.4946

 16.7602, 0.2343,  
0.7262

 233.7869, 0.3066,  
0.4825

 10.0637, 0.2007,  
0.7993

 282.3657, 0.3079,  
0.4721

 5.4412, 0.1431,  
0.8569


337.2470, 0.3090,

 2.5084, 0.0000,

0.4629

1.0000


398.8150, 0.3098,  
0.4548


 0.8808, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 71.9749, 0.2910,  
0.5677


 71.9749, 0.2910,  
0.5677

 71.9754, 0.2910,  
0.5677

 72.4617, 0.2879,  
0.5490

 73.3029, 0.2858,  
0.5262

 74.5893, 0.2854,  
0.5002

 76.3775, 0.2866,  
0.4725

■ 78.7155, 0.2891,  
0.4445

■ 81.6456, 0.2928,  
0.4174

■ 85.2055, 0.2973,  
0.3919

■ 89.4302, 0.3023,  
0.3686

■ 94.3517, 0.3075,  
0.3476

# Harmonies

## Analogous

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



71.9749, 0.4024, 0.5497



71.9749, 0.2910, 0.5677



71.9749, 0.1903, 0.4540

# Triad

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



71.9749, 0.2910, 0.5677



71.9749, 0.1334, 0.1594



71.9749, 0.5331, 0.3032

# Complementary

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



71.9749, 0.2910, 0.5677



24.7191, 0.4087, 0.2025

# 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.



71.9749, 0.4230, 0.2341



71.9749, 0.2910, 0.5677



71.9749, 0.1884, 0.1559

# Square

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



71.9749, 0.2910, 0.5677



71.9749, 0.1146, 0.2001



71.9749, 0.2883, 0.1818



71.9749, 0.5569, 0.3798



# Rectangle

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



71.9749, 0.2910, 0.5677



71.9749, 0.1449, 0.3455



71.9749, 0.2883, 0.1818



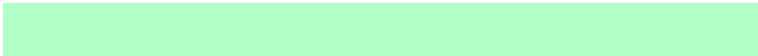
71.9749, 0.5041, 0.2791

# Sweetspot

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



71.9754, 0.2910, 0.5677



85.2055, 0.2973, 0.3919



82.0848, 0.3720, 0.5428



17.8993, 0.2953, 0.4024



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.



71.9754, 0.2910, 0.5677



75.4828, 0.2465, 0.4075



20.2513, 0.3077, 0.3466



37.6304, 0.2903, 0.5649



3.6815, 0.2842, 0.5431

# Inverse Universe

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



24.7191, 0.4087, 0.2025



21.5810, 0.6025, 0.3093



18.2090, 0.3181, 0.3120



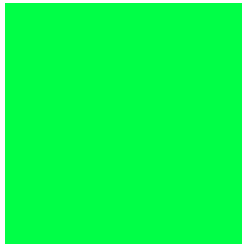
12.9430, 0.4069, 0.2015



1.2788, 0.3947, 0.1948

# Previews

## White Background



This preview shows how the Yxy color 71.9749, 0.2910, 0.5677 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 71.9749, 0.2910, 0.5677 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

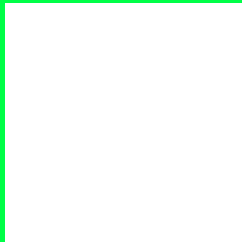
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 71.9749, 0.2910, 0.5677**

## **Background**



This preview shows how black text looks on a background with the Yxy color 71.9749, 0.2910, 0.5677.



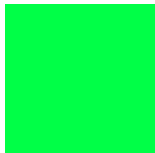
This preview shows how white text looks on a background with the Yxy color 71.9749, 0.2910, 0.5677.



# Color Blindness Simulation

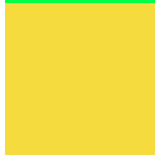
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

71.9749, 0.2910, 0.5677



### Protanopia

70.4233, 0.4284, 0.4724



### Deuteranopia

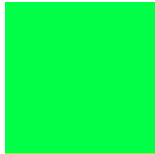
70.0185, 0.3925, 0.3928



## Tritanopia

71.5014, 0.2388, 0.3075

# Trichromacy



## Original Color

71.9749, 0.2910, 0.5677



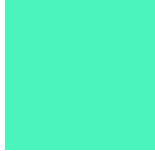
## Protanomaly

65.1628, 0.3511, 0.5256



## Deuteranomaly

64.0000, 0.3324, 0.4643



## Tritanomaly

69.7881, 0.2562, 0.4040

# Monochromacy



## Original Color

71.9749, 0.2910, 0.5677



## Achromatopsia

34.1914, 0.3127, 0.3290



## Achromatomaly

42.4130, 0.2906, 0.4370

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 71.9749, 0.2910, 0.5677 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, 255, 71)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 71)  
}
```

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, 255, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 71) }
```

## Border

The CSS property to change the border of an element to Yxy 71.9749, 0.2910, 0.5677 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, 255, 71) }
```

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

```
.border{ border-color:rgb(0, 255, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 255, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 71);  
box-shadow:4px 4px 4px 4px rgb(0, 255, 71)  
}
```

# Background

The CSS property to change the background color of an element to Yxy 71.9749, 0.2910, 0.5677 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 255, 71) }
```

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

```
.background{ background-color: rgb(0, 255,  
71) }
```

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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