

# Converting Colors

$Y_{xy}(72.1004, 0.2975, 0.5793)$

Have a look what the booklet for  
Yxy(72.1004, 0.2975, 0.5793)  
contains.

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# Color

**Yxy(72.1004, 0.2975, 0.5793)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21FF35
RGB	33, 255, 53
RGB Percent	13%, 100%, 21%
CMY	0.8710, 0.0000, 0.7921
CMYK	0.87, 0.00, 0.79, 0.00
HSL	125°, 100%, 56%
HSV	125°, 87%, 100%
XYZ	37.0272, 72.1004, 15.3336
YIQ	165.5940, -67.4700, -109.8860

# Conversions

## Conversions Part 2

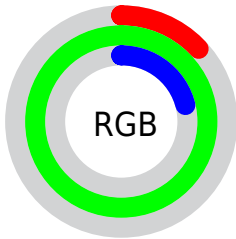
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	33, 237, 255
Decimal	2228021
CIE Lab	88.02, -83.18, 75.29
CIE LCh	88, 112.189, 137.851
Yxy	72.1004, 0.2975, 0.5793
Android (android.graphics.Color)	4280418101 (0xFF21FF35)
YUV	165.5940, -55.5088, -116.2849
Hunter-Lab	84.9120, -70.7581, 48.7316

# Details

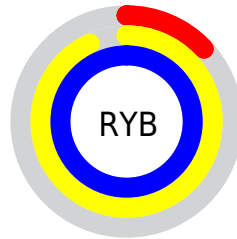
The Yxy color **72.1004, 0.2975, 0.5793** is a dark color, and the websafe version is hex **00FF33**. The color can be described as dark washed green. A complement of this color would be **28.3328, 0.3418, 0.1706**, and the grayscale version is **38.2080, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.1934, 0.3096, 0.5036**, and **39.4799, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **71.6605, 0.2985, 0.5928**, and if you desaturate by 10%, it is **72.9559, 0.2972, 0.5582**.

# Distribution



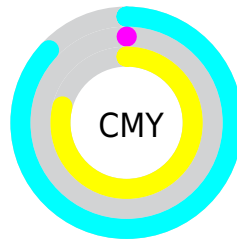
- Red (13%)
- Green (100%)
- Blue (21%)



- Red (13%)
- Yellow (93%)
- Blue (100%)



- Cyan (87%)
- Magenta (0%)
- Yellow (79%)
- Black (0%)




- Cyan (87%)
- Magenta (0%)
- Yellow (79%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.1004, 0.2975, 0.5793 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 72.1004, 0.2975, 0.5793 by changing the saturation by 10% instead.





 72.1004, 0.2975,  
0.5793


 72.1004, 0.2975,  
0.5793


467.8910, 0.3154,  
0.4544

 53.2407, 0.2902,  
0.6081

 122.1993, 0.3063,  
0.5352


 37.9950, 0.2794,  
0.6431


 154.2072, 0.3089,  
0.5182

 25.9788, 0.2632,  
0.6853


 191.3667, 0.3109,  
0.5036

 16.8078, 0.2391,  
0.7379

 234.0621, 0.3123,  
0.4910

 10.0975, 0.2015,  
0.7985

 282.6779, 0.3134,  
0.4801

 5.4637, 0.1441,  
0.8559

337.5983, 0.3143,


 2.5218, 0.0000,

0.4704


1.0000


399.2079, 0.3149,  
0.4619


 0.8875, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 72.1004, 0.2975,  
0.5793


 72.1004, 0.2975,  
0.5793

 71.6605, 0.2985,  
0.5928

 72.9559, 0.2972,  
0.5582

 71.5823, 0.2987,  
0.5953

 74.3081, 0.2976,  
0.5306

 76.2156, 0.2989,  
0.4988

 78.7300, 0.3008,  
0.4652

■ 81.8970, 0.3031,  
0.4318

■ 85.7578, 0.3057,  
0.4001

■ 90.3504, 0.3083,  
0.3712

■ 95.7099, 0.3109,  
0.3454

■ 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.



72.1004, 0.4110, 0.5494



72.1004, 0.2975, 0.5793



72.1004, 0.1930, 0.4711

# Triad

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



72.1004, 0.2975, 0.5793



72.1004, 0.1270, 0.1571



72.1004, 0.5339, 0.2959

# Complementary

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



72.1004, 0.2975, 0.5793



28.3328, 0.3418, 0.1706

# 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.



72.1004, 0.4155, 0.2267



72.1004, 0.2975, 0.5793



72.1004, 0.1795, 0.1513

# Square

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



72.1004, 0.2975, 0.5793



72.1004, 0.1103, 0.2015



72.1004, 0.2778, 0.1754



72.1004, 0.5646, 0.3729



# Rectangle

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



72.1004, 0.2975, 0.5793



72.1004, 0.1446, 0.3575



72.1004, 0.2778, 0.1754



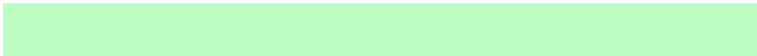
72.1004, 0.5019, 0.2718

# Sweetspot

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



72.0987, 0.2975, 0.5793



86.2273, 0.3060, 0.3968



89.5462, 0.4038, 0.5108



18.1467, 0.3051, 0.4074



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.



72.0987, 0.2975, 0.5793



71.5823, 0.2987, 0.5953



74.4663, 0.2620, 0.4543



20.1949, 0.3103, 0.3513



37.4122, 0.2984, 0.5941



3.6513, 0.2950, 0.5819



# Inverse Universe

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



28.3328, 0.3418, 0.1706



27.0805, 0.3456, 0.1678



23.8335, 0.4996, 0.2616



18.2703, 0.3152, 0.3077



14.1619, 0.3452, 0.1675

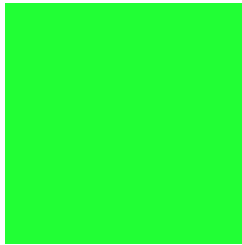


1.3869, 0.3421, 0.1658



# Previews

## White Background



This preview shows how the Yxy color 72.1004, 0.2975, 0.5793 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 72.1004, 0.2975, 0.5793 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

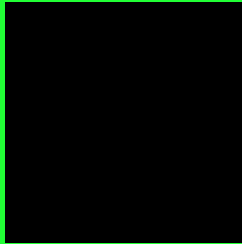
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 72.1004, 0.2975, 0.5793**

## **Background**



This preview shows how black text looks on a background with the Yxy color 72.1004, 0.2975, 0.5793.

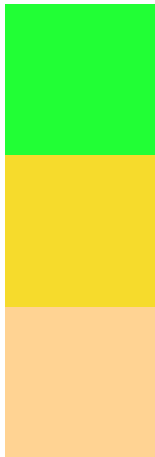


This preview shows how white text looks on a background with the Yxy color 72.1004, 0.2975, 0.5793.

# 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

72.1004, 0.2975, 0.5793

### Protanopia

70.4377, 0.4344, 0.4797

### Deuteranopia

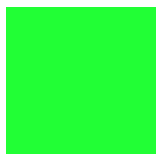
69.9551, 0.3939, 0.3948



## Tritanopia

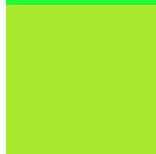
71.6399, 0.2396, 0.3075

# Trichromacy



**Original Color**

72.1004, 0.2975, 0.5793



**Protanomaly**

66.3535, 0.3654, 0.5301



**Deuteranomaly**

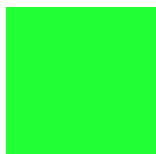
65.1291, 0.3454, 0.4696



**Tritanomaly**

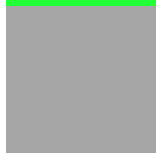
70.1050, 0.2627, 0.4118

# Monochromacy



**Original Color**

72.1004, 0.2975, 0.5793



**Achromatopsia**

38.1326, 0.3127, 0.3290



**Achromatomaly**

45.7204, 0.3026, 0.4411

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.1004, 0.2975, 0.5793 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(33, 255, 53)` looks like.

```
.text, #text, p{  
    color:rgb(33, 255, 53)  
}
```

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(33, 255, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 255, 53) }
```

## Border

The CSS property to change the border of an element to Yxy 72.1004, 0.2975, 0.5793 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(33, 255, 53) }
```

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

```
.border{ border-color:rgb(33, 255, 53) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 255, 53)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 255, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 255, 53);  
box-shadow:4px 4px 4px 4px rgb(33, 255,  
53) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.1004, 0.2975, 0.5793 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 255, 53) }
```

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

```
.background{ background-color: rgb(33, 255,  
53) }
```

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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