

# Converting Colors

$Y_{xy}(72.7648, 0.3034, 0.5762)$

Have a look what the booklet for  
Yxy(72.7648, 0.3034, 0.5762)  
contains.

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# Color

**Yxy(72.7511, 0.3034, 0.5765)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3DFF33
RGB	61, 255, 51
RGB Percent	24%, 100%, 20%
CMY	0.7603, 0.0000, 0.8000
CMYK	0.76, 0.00, 0.80, 0.00
HSL	117°, 100%, 60%
HSV	117°, 80%, 100%
XYZ	38.2874, 72.7511, 15.1560
YIQ	173.7380, -50.1400, -104.5720

# Conversions

## Conversions Part 2

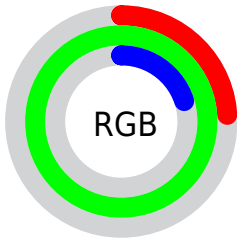
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 255, 245
Decimal	4063027
CIELab	88.33, -80.42, 76.23
CIELCh	88, 110.809, 136.535
Yxy	72.7511, 0.3034, 0.5765
Android (android.graphics.Color)	4282253107 (0xFF3DFF33)
YUV	173.7380, -60.5098, -98.8712
Hunter-Lab	85.2943, -69.1388, 49.1707

# Details

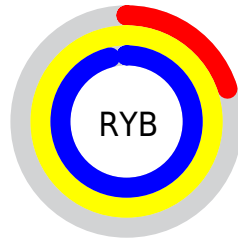
The Yxy color **72.7511, 0.3034, 0.5765** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **28.9799, 0.3106, 0.1583**, and the grayscale version is **42.5409, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.2239, 0.3168, 0.5012**, and **39.9325, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **71.9827, 0.3018, 0.5920**, and if you desaturate by 10%, it is **73.9960, 0.3051, 0.5526**.

# Distribution



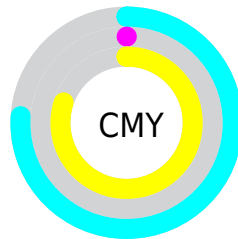
- Red (24%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (96%)



- Cyan (76%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)




- Cyan (76%)
- Magenta (0%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.7511, 0.3034, 0.5765 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 72.7511, 0.3034, 0.5765 by changing the saturation by 10% instead.




 72.7511, 0.3034,  
0.5765

 72.7511, 0.3034,  
0.5765

470.1517, 0.3186,  
0.4537


 53.7725, 0.2967,  
0.6046

 123.1238, 0.3112,  
0.5334

 38.4198, 0.2866,  
0.6385


 155.2867, 0.3135,  
0.5166


 26.3087, 0.2713,  
0.6795


 192.6130, 0.3152,  
0.5023

 17.0547, 0.2484,  
0.7303

 235.4873, 0.3163,  
0.4899

 10.2735, 0.2120,  
0.7880

 284.2940, 0.3172,  
0.4791

 5.5807, 0.1558,  
0.8442

339.4173, 0.3178,

 2.5918, 0.0000,

0.4696

1.0000

401.2418, 0.3183,  
0.4612

■ 0.9226, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 72.7511, 0.3034,  
0.5765

■ 72.7511, 0.3034,  
0.5765

■ 71.9827, 0.3018,  
0.5920

■ 73.9960, 0.3051,  
0.5526

■ 71.6021, 0.3007,  
0.5994

■ 75.7674, 0.3068,  
0.5220


■ 71.6020, 0.3007,  
0.5994

■ 78.1188, 0.3084,  
0.4874

■ 81.0947, 0.3097,  
0.4516

 84.7352, 0.3108,  
0.4167

 89.0774, 0.3117,  
0.3842

 94.1551, 0.3123,  
0.3549

99.9992, 0.3127,  
0.3290

# Harmonies

## Analogous

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



72.7511, 0.4156, 0.5438



72.7511, 0.3034, 0.5765



72.7511, 0.1988, 0.4757

# Triad

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



72.7511, 0.3034, 0.5765



72.7511, 0.1274, 0.1600



72.7511, 0.5272, 0.2936

# Complementary

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



72.7511, 0.3034, 0.5765



28.9799, 0.3106, 0.1583

# 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.



72.7511, 0.4079, 0.2253



72.7511, 0.3034, 0.5765



72.7511, 0.1779, 0.1528

# Square

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



72.7511, 0.3034, 0.5765



72.7511, 0.1124, 0.2064



72.7511, 0.2732, 0.1755



72.7511, 0.5622, 0.3698



# Rectangle

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



72.7511, 0.3034, 0.5765



72.7511, 0.1492, 0.3645



72.7511, 0.2732, 0.1755



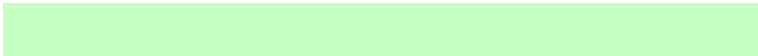
72.7511, 0.4943, 0.2696

# Sweetspot

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



72.7541, 0.3034, 0.5765



87.2540, 0.3114, 0.3968



86.6821, 0.4204, 0.4896



18.3492, 0.3111, 0.4085



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.



72.7541, 0.3034, 0.5765



71.7168, 0.3010, 0.5971



74.2003, 0.2727, 0.4809



20.2111, 0.3123, 0.3535



37.4319, 0.3010, 0.5992



3.6591, 0.3034, 0.5973



# Inverse Universe

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



28.9799, 0.3106, 0.1583



26.4718, 0.3088, 0.1484



26.2795, 0.4358, 0.2335



18.2518, 0.3130, 0.3055



13.6895, 0.3085, 0.1473

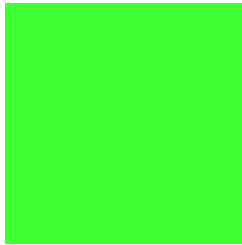


1.3464, 0.3100, 0.1481



# Previews

## White Background



This preview shows how the Yxy color 72.7511, 0.3034, 0.5765 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

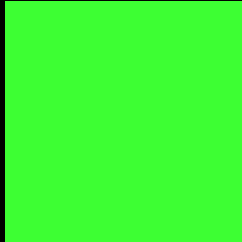
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 72.7511, 0.3034, 0.5765 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 72.7511, 0.3034, 0.5765**

## **Background**



This preview shows how black text looks on a background with the Yxy color 72.7511, 0.3034, 0.5765.

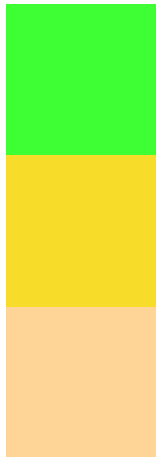


This preview shows how white text looks on a background with the Yxy color 72.7511, 0.3034, 0.5765.

# 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

72.7511, 0.3034, 0.5765

### Protanopia

71.1277, 0.4349, 0.4805

### Deuteranopia

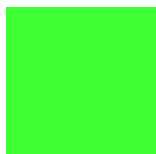
71.0829, 0.3902, 0.3928



## Tritanopia

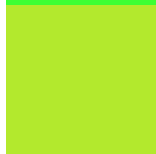
72.3004, 0.2430, 0.3077

# Trichromacy



## Original Color

72.7511, 0.3034, 0.5765



## Protanomaly

68.0510, 0.3727, 0.5262



## Deuteranomaly

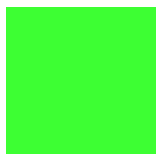
66.9150, 0.3515, 0.4647



## Tritanomaly

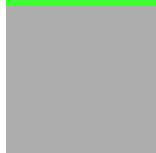
70.9211, 0.2688, 0.4119

# Monochromacy



## Original Color

72.7511, 0.3034, 0.5765



## Achromatopsia

42.3268, 0.3127, 0.3290



## Achromatomaly

49.2834, 0.3104, 0.4373

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.7511, 0.3034, 0.5765 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(61, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(61, 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(61, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(61, 255, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 72.7511, 0.3034, 0.5765 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(61, 255, 51) }
```

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

```
.border{ border-color:rgb(61, 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(61, 255, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(61, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(61, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(61, 255,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.7511, 0.3034, 0.5765 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(61, 255, 51) }
```

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

```
.background{ background-color: rgb(61, 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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