

# Converting Colors

$Y_{xy}(66.3572, 0.3015, 0.5779)$

Have a look what the booklet for  
Yxy(66.3572, 0.3015, 0.5779)  
contains.

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# Color

**Yxy(66.2304, 0.3015, 0.5776)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33F531
RGB	51, 245, 49
RGB Percent	20%, 96%, 19%
CMY	0.8000, 0.0392, 0.8080
CMYK	0.79, 0.00, 0.80, 0.04
HSL	119°, 91%, 58%
HSV	119°, 80%, 96%
XYZ	34.5714, 66.2304, 13.8630
YIQ	164.6500, -52.7080, -102.0840

# Conversions

## Conversions Part 2

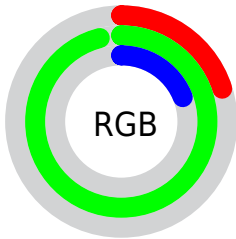
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	49, 245, 243
Decimal	3405105
CIELab	85.11, -78.92, 73.72
CIELCh	85, 107.996, 136.952
Yxy	66.2304, 0.3015, 0.5776
Android (android.graphics.Color)	4281595185 (0xFF33F531)
YUV	164.6500, -57.0155, -99.6711
Hunter-Lab	81.3821, -66.5911, 46.8677

# Details

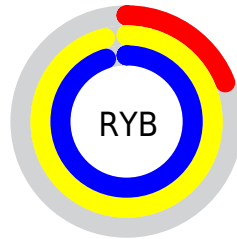
The Yxy color **66.2304, 0.3015, 0.5776** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **27.8367, 0.3184, 0.1625**, and the grayscale version is **37.7475, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.4930, 0.3138, 0.5067**, and **35.5406, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **65.6054, 0.3006, 0.5928**, and if you desaturate by 10%, it is **67.3010, 0.3027, 0.5538**.

# Distribution



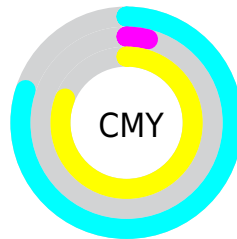
- Red (20%)
- Green (96%)
- Blue (19%)



- Red (19%)
- Yellow (96%)
- Blue (95%)



- Cyan (79%)
- Magenta (0%)
- Yellow (80%)
- Black (4%)




- Cyan (80%)
- Magenta (4%)
- Yellow (81%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 66.2304, 0.3015, 0.5776 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 66.2304, 0.3015, 0.5776 by changing the saturation by 10% instead.





 66.2304, 0.3015,  
0.5776


 66.2304, 0.3015,  
0.5776


447.2004, 0.3176,  
0.4521

 48.4595, 0.2943,  
0.6069


 113.8170, 0.3098,  
0.5330

 34.1909, 0.2835,  
0.6425


 144.4014, 0.3122,  
0.5159


 23.0403, 0.2669,  
0.6858


 180.0257, 0.3140,  
0.5012

 14.6233, 0.2426,  
0.7429

 221.0744, 0.3152,  
0.4886

 8.5554, 0.2008,  
0.7992

 267.9318, 0.3161,  
0.4777

 4.4523, 0.1385,  
0.8615

320.9824, 0.3168,

 1.9297, 0.0000,

0.4681

1.0000

380.6104, 0.3173,  
0.4596

■ 0.5661, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 66.2304, 0.3015,  
0.5776

■ 66.2304, 0.3015,  
0.5776

■ 65.6054, 0.3006,  
0.5928


■ 67.3010, 0.3027,  
0.5538

■ 65.3242, 0.3002,  
0.5999


■ 68.8697, 0.3043,  
0.5231


■ 70.9905, 0.3059,  
0.4883

■ 73.7083, 0.3075,  
0.4522

 77.0633, 0.3090,  
0.4170

 81.0924, 0.3104,  
0.3843

 85.8296, 0.3117,  
0.3549

 91.3065, 0.3127,  
0.3290

 93.7878, 0.3132,  
0.3194

# Harmonies

## Analogous

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



66.2304, 0.4142, 0.5457



66.2304, 0.3015, 0.5776



66.2304, 0.1969, 0.4744

# Triad

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



66.2304, 0.3015, 0.5776



66.2304, 0.1272, 0.1590



66.2304, 0.5295, 0.2943

# Complementary

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



66.2304, 0.3015, 0.5776



27.8367, 0.3184, 0.1625

# 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.



66.2304, 0.4104, 0.2257



66.2304, 0.3015, 0.5776



66.2304, 0.1784, 0.1522

# Square

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



66.2304, 0.3015, 0.5776



66.2304, 0.1116, 0.2048



66.2304, 0.2746, 0.1754



66.2304, 0.5631, 0.3707



# Rectangle

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



66.2304, 0.3015, 0.5776



66.2304, 0.1476, 0.3623



66.2304, 0.2746, 0.1754



66.2304, 0.4968, 0.2702

# Sweetspot

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



66.2332, 0.3015, 0.5776



86.9330, 0.3099, 0.3971



82.9831, 0.4157, 0.4936



18.2749, 0.3094, 0.4089



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.



66.2332, 0.3015, 0.5776



71.6259, 0.3003, 0.5978



67.9651, 0.2699, 0.4712



18.4802, 0.3117, 0.3535



35.1935, 0.3002, 0.5998



3.0960, 0.3008, 0.5994



# Inverse Universe

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



27.8367, 0.3184, 0.1625



28.2232, 0.3184, 0.1537



23.8177, 0.4458, 0.2398



16.7590, 0.3136, 0.3057



13.7691, 0.3183, 0.1527

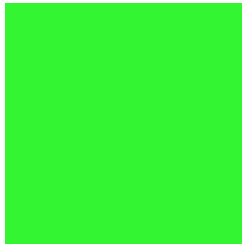


1.2129, 0.3187, 0.1529



# Previews

## White Background



This preview shows how the Yxy color 66.2304, 0.3015, 0.5776 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 66.2304, 0.3015, 0.5776 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

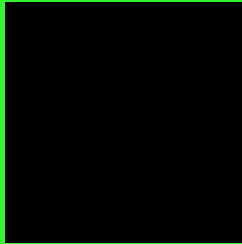
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 66.2304, 0.3015, 0.5776**

## **Background**



This preview shows how black text looks on a background with the Yxy color 66.2304, 0.3015, 0.5776.



This preview shows how white text looks on a background with the Yxy color 66.2304, 0.3015, 0.5776.

# 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

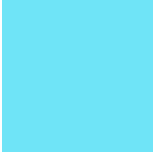
66.2304, 0.3015, 0.5776

### Protanopia

64.7463, 0.4348, 0.4804

### Deuteranopia

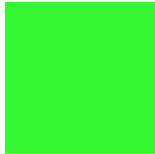
64.6488, 0.4237, 0.4199



## **Tritanopia**

65.5817, 0.2380, 0.3056

# Trichromacy



## Original Color

66.2304, 0.3015, 0.5776



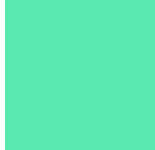
## Protanomaly

61.3848, 0.3709, 0.5272



## Deuteranomaly

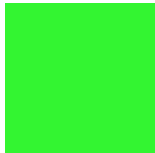
60.6711, 0.3669, 0.4850



## Tritanomaly

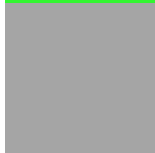
64.0646, 0.2645, 0.4104

# Monochromacy



## Original Color

66.2304, 0.3015, 0.5776



## Achromatopsia

37.6262, 0.3127, 0.3290



## Achromatomaly

44.2987, 0.3083, 0.4381

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 66.2304, 0.3015, 0.5776 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(51, 245, 49)` looks like.

```
.text, #text, p{  
    color:rgb(51, 245, 49)  
}
```

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(51, 245, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 245, 49) }
```

## Border

The CSS property to change the border of an element to Yxy 66.2304, 0.3015, 0.5776 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(51, 245, 49) }
```

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

```
.border{ border-color:rgb(51, 245, 49) }
```

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

Here you see how a box with a 4 pixel rgb(51, 245, 49) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 245, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 245, 49);  
box-shadow:4px 4px 4px 4px rgb(51, 245,  
49) }
```



# Background

The CSS property to change the background color of an element to Yxy 66.2304, 0.3015, 0.5776 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 245, 49) }
```

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

```
.background{ background-color: rgb(51, 245,  
49) }
```

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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