

# Converting Colors

$Y_{xy}(55.1022, 0.3046, 0.5923)$

Have a look what the booklet for  
Yxy(55.1022, 0.3046, 0.5923)  
contains.

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**Color**

**Yxy(54.9194, 0.3045, 0.5923)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2AE20F
RGB	42, 226, 15
RGB Percent	16%, 89%, 6%
CMY	0.8358, 0.1137, 0.9406
CMYK	0.81, 0.00, 0.93, 0.11
HSL	112°, 87%, 47%
HSV	112°, 93%, 89%
XYZ	28.2339, 54.9194, 9.5689
YIQ	146.9300, -41.9330, -104.6290

# Conversions

## Conversions Part 2

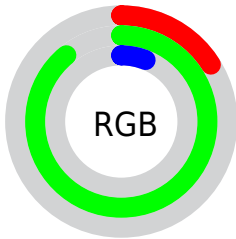
<b>Format</b>	<b>Color</b>
<b>RYB</b>	15, 226, 199
Decimal	2810383
CIELab	78.99, -75.84, 74.86
CIELCh	79, 106.569, 135.372
Yxy	54.9194, 0.3045, 0.5923
Android (android.graphics.Color)	4281000463 (0xFF2AE20F)
YUV	146.9300, -65.0415, -92.0236
Hunter-Lab	74.1076, -61.6824, 44.2197

# Details

The Yxy color **54.9194, 0.3045, 0.5923** is a dark color, and the websafe version is hex **00CC00**. The color can be described as dark washed green. A complement of this color would be **18.0192, 0.2909, 0.1397**, and the grayscale version is **29.4255, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.4691, 0.3173, 0.5301**, and **28.3759, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **54.6534, 0.3029, 0.5977**, and if you desaturate by 10%, it is **55.5470, 0.3073, 0.5784**.

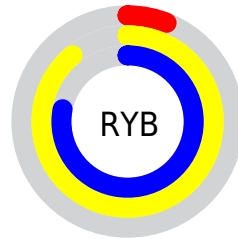
# Distribution



Red (16%)

Green (89%)

Blue (6%)



Red (6%)

Yellow (89%)

Blue (78%)

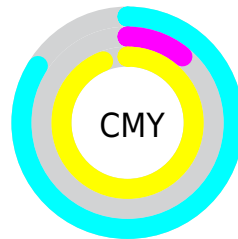


Cyan (81%)

Magenta (0%)

Yellow (93%)

Black (11%)



Cyan (84%)

Magenta (11%)


Yellow (94%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 54.9194, 0.3045, 0.5923 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 54.9194, 0.3045, 0.5923 by changing the saturation by 10% instead.





 54.9194, 0.3045,  
0.5923


 54.9194, 0.3045,  
0.5923


405.6063, 0.3212,  
0.4562

 39.3372, 0.2960,  
0.6245


 97.4229, 0.3139,  
0.5435


 27.0221, 0.2827,  
0.6634


 125.1129, 0.3164,  
0.5248

 17.5899, 0.2620,  
0.7108


 157.6077, 0.3181,  
0.5089

 10.6559, 0.2301,  
0.7699

 195.2916, 0.3193,  
0.4953

 5.8360, 0.1767,  
0.8233

 238.5490, 0.3201,  
0.4835

 2.7456, 0.0509,  
0.9491

 287.7643, 0.3207,


 1.0004, 0.0000,


0.4732

1.0000

343.3220, 0.3210,  
0.4642

 0.0000, 0.0000,  
0.0000


 54.9194, 0.3045,  
0.5923


 54.9194, 0.3045,  
0.5923


 54.6534, 0.3029,  
0.5977

 55.5470, 0.3073,  
0.5784

 56.4916, 0.3098,  
0.5565

 57.7921, 0.3118,  
0.5280

 59.4800, 0.3133,  
0.4951

 61.5831, 0.3141,  
0.4605

■ 64.1268, 0.3144,  
0.4261

■ 67.1342, 0.3142,  
0.3936

■ 70.6271, 0.3137,  
0.3638

■ 74.6257, 0.3130,  
0.3371

# Harmonies

## Analogous

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



54.9194, 0.4207, 0.5484



54.9194, 0.3045, 0.5923



54.9194, 0.1957, 0.4918

# Triad

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



54.9194, 0.3045, 0.5923



54.9194, 0.1195, 0.1542



54.9194, 0.5350, 0.2876

# Complementary

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



54.9194, 0.3045, 0.5923



18.0192, 0.2909, 0.1397

# 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.



54.9194, 0.4068, 0.2182



54.9194, 0.3045, 0.5923



54.9194, 0.1694, 0.1459

# Square

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



54.9194, 0.3045, 0.5923



54.9194, 0.1052, 0.2029



54.9194, 0.2659, 0.1680



54.9194, 0.5738, 0.3648



# Rectangle

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



54.9194, 0.3045, 0.5923



54.9194, 0.1439, 0.3722



54.9194, 0.2659, 0.1680



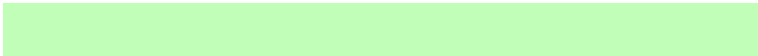
54.9194, 0.4994, 0.2632

# Sweetspot

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



54.9217, 0.3045, 0.5923



86.2550, 0.3144, 0.4092



56.5446, 0.4419, 0.4840



18.1064, 0.3144, 0.4235



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.



54.9217, 0.3045, 0.5923



71.8321, 0.3027, 0.5979



55.2810, 0.2823, 0.5316



15.4200, 0.3135, 0.3531



31.2050, 0.3034, 0.5973



2.1905, 0.3110, 0.5913



# Inverse Universe

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



18.0192, 0.2909, 0.1397



22.8588, 0.2885, 0.1363



18.6760, 0.4316, 0.2182



13.8429, 0.3118, 0.3058



9.9690, 0.2892, 0.1367

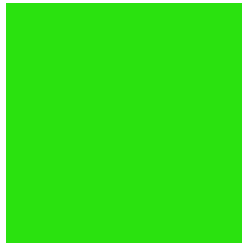


0.7160, 0.2944, 0.1396



# Previews

## White Background



This preview shows how the Yxy color 54.9194, 0.3045, 0.5923 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 54.9194, 0.3045, 0.5923 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 54.9194, 0.3045, 0.5923**

## Background



This preview shows how black text looks on a background with the Yxy color 54.9194, 0.3045, 0.5923.



This preview shows how white text looks on a background with the Yxy color 54.9194, 0.3045, 0.5923.

# 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

54.9194, 0.3045, 0.5923

### Protanopia

53.6436, 0.4412, 0.4879

### Deuteranopia

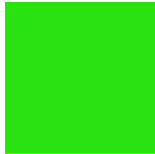
53.5660, 0.4606, 0.4512



## Tritanopia

54.4640, 0.2384, 0.3063

# Trichromacy



## Original Color

54.9194, 0.3045, 0.5923



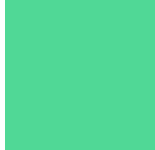
## Protanomaly

51.1243, 0.3753, 0.5387



## Deuteranomaly

49.5265, 0.3881, 0.5148



## Tritanomaly

53.0192, 0.2697, 0.4286

# Monochromacy



## Original Color

54.9194, 0.3045, 0.5923



## Achromatopsia

29.1771, 0.3127, 0.3290



## Achromatomaly

35.2027, 0.3143, 0.4595

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 54.9194, 0.3045, 0.5923 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(42, 226, 15)` looks like.

```
.text, #text, p{  
    color:rgb(42, 226, 15)  
}
```

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(42, 226, 15) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(42, 226, 15) }
```

## Border

The CSS property to change the border of an element to Yxy 54.9194, 0.3045, 0.5923 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(42, 226, 15) }
```

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

```
.border{ border-color:rgb(42, 226, 15) }
```

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

Here you see how a box with a 4 pixel `rgb(42, 226, 15)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(42, 226, 15); -webkit-box-  
shadow:4px 4px 4px 4px rgb(42, 226, 15);  
box-shadow:4px 4px 4px 4px rgb(42, 226,  
15) }
```



# Background

The CSS property to change the background color of an element to Yxy 54.9194, 0.3045, 0.5923 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(42, 226, 15) }
```

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

```
.background{ background-color: rgb(42, 226,  
15) }
```

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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