

# Converting Colors

$Y_{xy}(55.5579, 0.3045, 0.5893)$

Have a look what the booklet for  
Yxy(55.5579, 0.3045, 0.5893)  
contains.

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**Color**

**Yxy(55.5579, 0.3045, 0.5893)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2DE317
RGB	45, 227, 23
RGB Percent	18%, 89%, 9%
CMY	0.8232, 0.1098, 0.9104
CMYK	0.80, 0.00, 0.90, 0.11
HSL	113°, 82%, 49%
HSV	113°, 90%, 89%
XYZ	28.7076, 55.5579, 10.0123
YIQ	149.3260, -42.9880, -102.0280

# Conversions

## Conversions Part 2

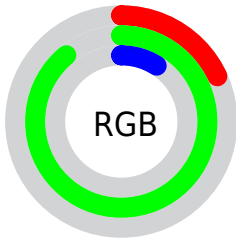
Format	Color
<a href="#">RYB</a>	<a href="#">23, 227, 205</a>
Decimal	<a href="#">3007255</a>
CIELab	<a href="#">79.36, -75.57, 74.14</a>
CIELCh	<a href="#">79, 105.868, 135.545</a>
Yxy	<a href="#">55.5579, 0.3045, 0.5893</a>
Android (android.graphics.Color)	<a href="#">4281197335 (0xFF2DE317)</a>
YUV	<a href="#">149.3260, -62.2787, -91.4939</a>
Hunter-Lab	<a href="#">74.5372, -61.6917, 44.2118</a>

# Details

The Yxy color **55.5579, 0.3045, 0.5893** 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 **19.0968, 0.2961, 0.1439**, and the grayscale version is **30.4861, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.6703, 0.3173, 0.5266**, and **28.7495, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **55.1443, 0.3023, 0.5981**, and if you desaturate by 10%, it is **56.2674, 0.3070, 0.5728**.

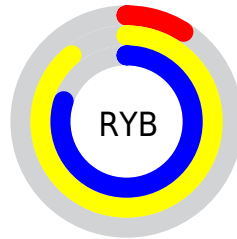
# Distribution



Red (18%)

Green (89%)

Blue (9%)



Red (9%)

Yellow (89%)

Blue (80%)

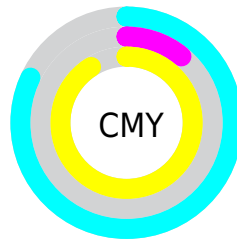


Cyan (80%)

Magenta (0%)

Yellow (90%)

Black (11%)



Cyan (82%)

Magenta (11%)


Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 55.5579, 0.3045, 0.5893 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 55.5579, 0.3045, 0.5893 by changing the saturation by 10% instead.





 55.5579, 0.3045,  
0.5893


 55.5579, 0.3045,  
0.5893


408.0233, 0.3209,  
0.4548


 39.8486, 0.2962,  
0.6212

 98.3579, 0.3136,  
0.5410

 27.4205, 0.2834,  
0.6598


 126.2173, 0.3161,  
0.5226


 17.8893, 0.2632,  
0.7066


 158.8956, 0.3178,  
0.5069

 10.8705, 0.2327,  
0.7673

 196.7771, 0.3190,  
0.4935

 5.9798, 0.1800,  
0.8200

 240.2462, 0.3198,  
0.4818

 2.8328, 0.0636,  
0.9364

 289.6874, 0.3203,

 1.0451, 0.0000,

0.4717

1.0000

345.4849, 0.3206,  
0.4627

■ 0.0000, 0.0000,  
0.0000

■ 55.5579, 0.3045,  
0.5893

■ 55.5579, 0.3045,  
0.5893

■ 55.1443, 0.3023,  
0.5981

■ 56.2674, 0.3070,  
0.5728


■ 55.1423, 0.3023,  
0.5982

■ 57.3163, 0.3092,  
0.5485


■ 58.7436, 0.3111,  
0.5181


■ 60.5813, 0.3124,  
0.4842

■ 62.8580, 0.3132,  
0.4492

 65.5996, 0.3136,  
0.4151

 68.8300, 0.3135,  
0.3833

 72.5716, 0.3132,  
0.3545

 76.8451, 0.3127,  
0.3288

# Harmonies

## Analogous

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



55.5579, 0.4199, 0.5475



55.5579, 0.3045, 0.5893



55.5579, 0.1965, 0.4889

# Triad

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



55.5579, 0.3045, 0.5893



55.5579, 0.1209, 0.1553



55.5579, 0.5334, 0.2886

# Complementary

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



55.5579, 0.3045, 0.5893



19.0968, 0.2961, 0.1439

# 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.



55.5579, 0.4068, 0.2195



55.5579, 0.3045, 0.5893



55.5579, 0.1709, 0.1472

# Square

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



55.5579, 0.3045, 0.5893



55.5579, 0.1066, 0.2037



55.5579, 0.2672, 0.1694



55.5579, 0.5715, 0.3656



# Rectangle

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



55.5579, 0.3045, 0.5893



55.5579, 0.1450, 0.3709



55.5579, 0.2672, 0.1694



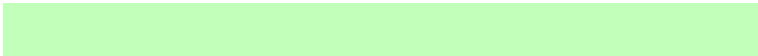
55.5579, 0.4983, 0.2644

# Sweetspot

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



55.5602, 0.3045, 0.5893



86.4950, 0.3136, 0.4061



59.1908, 0.4369, 0.4858



18.2230, 0.3136, 0.4174



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.



55.5602, 0.3045, 0.5893



71.7639, 0.3021, 0.5983



56.0609, 0.2799, 0.5200



16.1639, 0.3132, 0.3532



32.1832, 0.3027, 0.5978



2.4035, 0.3091, 0.5928



# Inverse Universe

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



19.0968, 0.2961, 0.1439



23.5852, 0.2931, 0.1388



19.0994, 0.4321, 0.2207



14.5313, 0.3121, 0.3057



10.6103, 0.2937, 0.1391

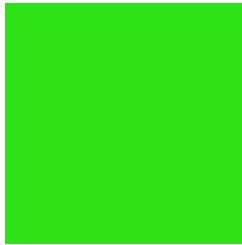


0.8070, 0.2979, 0.1415



# Previews

## White Background



This preview shows how the Yxy color 55.5579, 0.3045, 0.5893 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 55.5579, 0.3045, 0.5893 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 55.5579, 0.3045, 0.5893**

## Background



This preview shows how black text looks on a background with the Yxy color 55.5579, 0.3045, 0.5893.



This preview shows how white text looks on a background with the Yxy color 55.5579, 0.3045, 0.5893.

# 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

55.5579, 0.3045, 0.5893

### Protanopia

54.2524, 0.4408, 0.4876

### Deuteranopia

54.1881, 0.4593, 0.4501



## Tritanopia

55.0735, 0.2386, 0.3064

# Trichromacy



## Original Color

55.5579, 0.3045, 0.5893



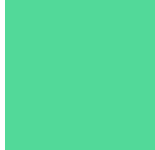
## Protanomaly

51.7155, 0.3752, 0.5378



## Deuteranomaly

50.2464, 0.3878, 0.5116



## Tritanomaly

53.7195, 0.2692, 0.4247

# Monochromacy



## Original Color

55.5579, 0.3045, 0.5893



## Achromatopsia

30.0544, 0.3127, 0.3290



## Achromatomaly

35.8031, 0.3131, 0.4534

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 55.5579, 0.3045, 0.5893 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(45, 227, 23)` looks like.

```
.text, #text, p{  
    color:rgb(45, 227, 23)  
}
```

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(45, 227, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 227, 23) }
```

## Border

The CSS property to change the border of an element to Yxy 55.5579, 0.3045, 0.5893 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(45, 227, 23) }
```

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

```
.border{ border-color:rgb(45, 227, 23) }
```

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

Here you see how a box with a 4 pixel rgb(45, 227, 23) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 227, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 227, 23);  
box-shadow:4px 4px 4px 4px rgb(45, 227,  
23) }
```



# Background

The CSS property to change the background color of an element to Yxy 55.5579, 0.3045, 0.5893 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 227, 23) }
```

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

```
.background{ background-color: rgb(45, 227,  
23) }
```

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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