

# Converting Colors

$Y_{xy}(63.4259, 0.2887, 0.5015)$

Have a look what the booklet for  
Yxy(63.4259, 0.2887, 0.5015)  
contains.

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# Color

**Yxy(63.4259, 0.2887, 0.5015)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4EED73
RGB	78, 237, 115
RGB Percent	31%, 93%, 45%
CMY	0.6946, 0.0705, 0.5491
CMYK	0.67, 0.00, 0.51, 0.07
HSL	134°, 82%, 62%
HSV	134°, 67%, 93%
XYZ	36.5126, 63.4259, 26.5339
YIQ	175.5510, -55.6020, -71.6500

# Conversions

## Conversions Part 2

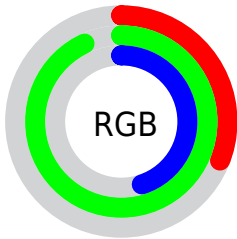
Format	Color
<a href="#">RYB</a>	<a href="#">78, 207, 237</a>
Decimal	<a href="#">5172595</a>
CIELab	<a href="#">83.67, -66.12, 46.91</a>
CIELCh	<a href="#">84, 81.075, 144.644</a>
Yxy	<a href="#">63.4259, 0.2887, 0.5015</a>
Android (android.graphics.Color)	<a href="#">4283362675 (0xFF4EED73)</a>
YUV	<a href="#">175.5510, -29.8516, -85.5522</a>
Hunter-Lab	<a href="#">79.6404, -57.5341, 35.9945</a>

# Details

The Yxy color **63.4259, 0.2887, 0.5015** is a dark color, and the websafe version is hex **66FF99**. The color can be described as middle muted spring green. A complement of this color would be **27.6041, 0.3612, 0.2075**, and the grayscale version is **43.3336, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.3139, 0.2943, 0.4343**, and **33.0014, 0.2851, 0.5465** is the 20% darker color. If you saturate the color by 10%, you get **62.2252, 0.2887, 0.5288**, and if you desaturate by 10%, it is **65.0747, 0.2901, 0.4724**.

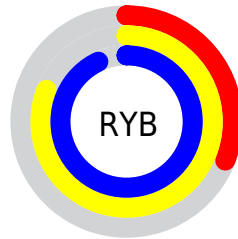
# Distribution



Red (31%)

Green (93%)

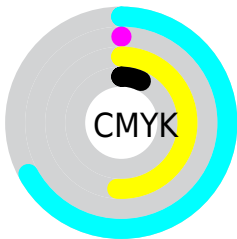
Blue (45%)



Red (31%)

Yellow (81%)

Blue (93%)

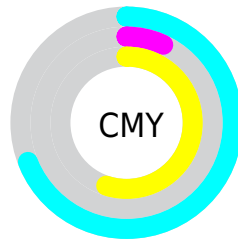


Cyan (67%)

Magenta (0%)

Yellow (51%)

Black (7%)



Cyan (69%)

Magenta (7%)


Yellow (55%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.4259, 0.2887, 0.5015 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 63.4259, 0.2887, 0.5015 by changing the saturation by 10% instead.




 63.4259, 0.2887,  
0.5015


 63.4259, 0.2887,  
0.5015


437.1135, 0.3047,  
0.4128


 46.1858, 0.2835,  
0.5238


 109.7837, 0.2954,  
0.4691


 32.3925, 0.2763,  
0.5521


 139.6703, 0.2977,  
0.4569

 21.6615, 0.2656,  
0.5892


 174.5411, 0.2995,  
0.4467

 13.6084, 0.2490,  
0.6390

 214.7807, 0.3009,  
0.4379

 7.8488, 0.2221,  
0.7078

260.7733, 0.3021,  
0.4304

 3.9983, 0.1798,  
0.8202

312.9034, 0.3031,

 1.6726, 0.0000,

0.4238

1.0000

371.5553, 0.3040,  
0.4180

■ 0.4058, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 63.4259, 0.2887,  
0.5015

■ 63.4259, 0.2887,  
0.5015

■ 62.2252, 0.2887,  
0.5288

■ 65.0747, 0.2901,  
0.4724

■ 61.4189, 0.2900,  
0.5526

■ 67.2029, 0.2928,  
0.4431


■ 60.9513, 0.2927,  
0.5717


■ 69.8482, 0.2963,  
0.4148

■ 60.8548, 0.2934,  
0.5763

■ 73.0420, 0.3004,  
0.3884

 76.8134, 0.3049,  
0.3643

 81.1893, 0.3095,  
0.3428

 86.1950, 0.3140,  
0.3238

 89.0563, 0.3135,  
0.3117

# Harmonies

## Analogous

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



63.4259, 0.3819, 0.5138



63.4259, 0.2887, 0.5015



63.4259, 0.2069, 0.4065

# Triad

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



63.4259, 0.2887, 0.5015



63.4259, 0.1682, 0.1866



63.4259, 0.4942, 0.3234

# Complementary

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



63.4259, 0.2887, 0.5015



27.6041, 0.3612, 0.2075

# 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.



63.4259, 0.4157, 0.2609



63.4259, 0.2887, 0.5015



63.4259, 0.2222, 0.1862

# Square

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



63.4259, 0.2887, 0.5015



63.4259, 0.1472, 0.2191



63.4259, 0.3103, 0.2125



63.4259, 0.5085, 0.3921



# Rectangle

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



63.4259, 0.2887, 0.5015



63.4259, 0.1704, 0.3283



63.4259, 0.3103, 0.2125



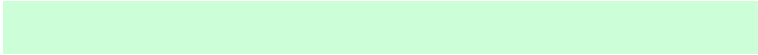
63.4259, 0.4741, 0.3016

# Sweetspot

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



63.4285, 0.2887, 0.5015



89.3097, 0.3035, 0.3711



73.7559, 0.3785, 0.4971



18.8443, 0.3023, 0.3779



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.



63.4285, 0.2887, 0.5015



73.0154, 0.2891, 0.5392



65.9934, 0.2537, 0.3900



16.9197, 0.3084, 0.3476



33.2369, 0.2927, 0.5738



2.6244, 0.2855, 0.5479



# Inverse Universe

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



27.6041, 0.3612, 0.2075



27.9076, 0.3747, 0.1952



24.8678, 0.4714, 0.2844



15.2502, 0.3173, 0.3111



11.6888, 0.3902, 0.1923



0.9324, 0.3786, 0.1859



# Previews

## White Background



This preview shows how the Yxy color 63.4259, 0.2887, 0.5015 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 63.4259, 0.2887, 0.5015 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 63.4259, 0.2887, 0.5015**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.4259, 0.2887, 0.5015.



This preview shows how white text looks on a background with the Yxy color 63.4259, 0.2887, 0.5015.

# 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

63.4259, 0.2887, 0.5015

### Protanopia

62.1395, 0.4022, 0.4396

### Deuteranopia

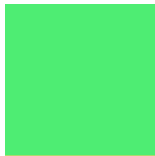
61.7372, 0.4128, 0.4040



## Tritanopia

62.8392, 0.2412, 0.3065

# Trichromacy



## Original Color

63.4259, 0.2887, 0.5015



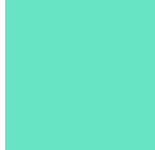
## Protanomaly

60.1312, 0.3496, 0.4665



## Deuteranomaly

59.0322, 0.3557, 0.4422



## Tritanomaly

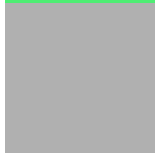
62.2517, 0.2584, 0.3734

# Monochromacy



## Original Color

63.4259, 0.2887, 0.5015



## Achromatopsia

43.4154, 0.3127, 0.3290



## Achromatomaly

48.2967, 0.2993, 0.3924

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.4259, 0.2887, 0.5015 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(78, 237, 115)` looks like.

```
.text, #text, p{  
    color:rgb(78, 237, 115)  
}
```

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(78, 237, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 237, 115) }
```

## Border

The CSS property to change the border of an element to Yxy 63.4259, 0.2887, 0.5015 is called "border". The border property can be set on classes, ids or directly on the HTML element.

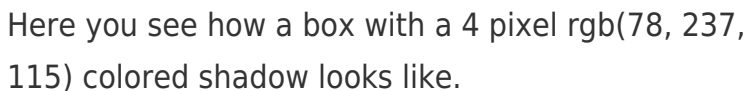
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(78, 237, 115) }
```

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

```
.border{ border-color:rgb(78, 237, 115) }
```

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



Here you see how a box with a 4 pixel `rgb(78, 237, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 237, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 237, 115);  
box-shadow:4px 4px 4px 4px rgb(78, 237,  
115) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.4259, 0.2887, 0.5015 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 237, 115) }
```

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

```
.background{ background-color: rgb(78, 237,  
115) }
```

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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