

# Converting Colors

$Y_{xy}(65.4871, 0.2800, 0.4915)$

Have a look what the booklet for  
Yxy(65.4871, 0.2800, 0.4915)  
contains.

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# Color

**Yxy(65.5069, 0.2802, 0.4916)**

# Conversions

## Conversions Part 1

Format	Color
Hex	40F17E
RGB	64, 241, 126
RGB Percent	25%, 95%, 49%
CMY	0.7488, 0.0549, 0.5059
CMYK	0.73, 0.00, 0.48, 0.05
HSL	141°, 86%, 60%
HSV	141°, 73%, 95%
XYZ	37.3373, 65.5069, 30.4082
YIQ	174.9670, -68.5770, -73.2890

# Conversions

## Conversions Part 2

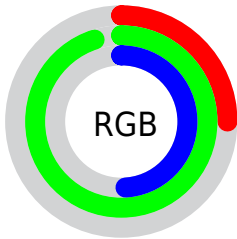
<b>Format</b>	<b>Color</b>
<b>RYB</b>	64, 195, 241
Decimal	4256126
CIELab	84.74, -68.05, 42.97
CIELCh	85, 80.483, 147.733
Yxy	65.5069, 0.2802, 0.4916
Android (android.graphics.Color)	4282446206 (0xFF40F17E)
YUV	174.9670, -24.1407, -97.3181
Hunter-Lab	80.9363, -59.2934, 34.3799

# Details

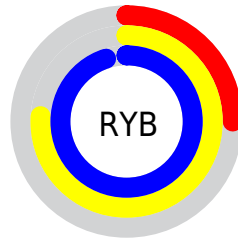
The Yxy color **65.5069, 0.2802, 0.4916** is a dark color, and the websafe version is hex **33FF99**. The color can be described as middle washed spring green. A complement of this color would be **25.6327, 0.3951, 0.2189**, and the grayscale version is **43.0148, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.9662, 0.2846, 0.4215**, and **34.3614, 0.2809, 0.5312** is the 20% darker color. If you saturate the color by 10%, you get **64.4946, 0.2811, 0.5156**, and if you desaturate by 10%, it is **66.9367, 0.2811, 0.4663**.

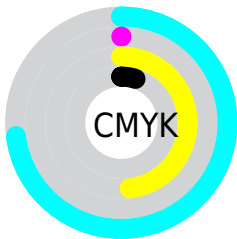
# Distribution



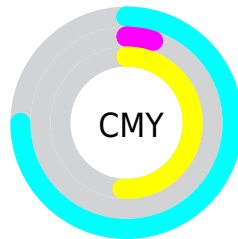
- Red (25%)
- Green (95%)
- Blue (49%)



- Red (25%)
- Yellow (76%)
- Blue (95%)



- Cyan (73%)
- Magenta (0%)
- Yellow (48%)
- Black (5%)




- Cyan (75%)
- Magenta (5%)
- Yellow (51%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 65.5069, 0.2802, 0.4916 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 65.5069, 0.2802, 0.4916 by changing the saturation by 10% instead.



 65.5069, 0.2802,  
0.4916


 65.5069, 0.2802,  
0.4916


444.6113, 0.2995,  
0.4084


 47.8722, 0.2745,  
0.5125


 112.7783, 0.2879,  
0.4612

 33.7257, 0.2668,  
0.5392


 143.1838, 0.2906,  
0.4498

 22.6830, 0.2559,  
0.5742


 178.6151, 0.2928,  
0.4401

 14.3596, 0.2395,  
0.6217

 219.4565, 0.2946,  
0.4319

 8.3712, 0.2137,  
0.6877

266.0924, 0.2961,  
0.4248

 4.3334, 0.1793,  
0.8207

318.9073, 0.2974,

 1.8617, 0.0000,

0.4186

1.0000

378.2854, 0.2985,  
0.4132

■ 0.5252, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 65.5069, 0.2802,  
0.4916

■ 65.5069, 0.2802,  
0.4916

■ 64.4946, 0.2811,  
0.5156

■ 66.9367, 0.2811,  
0.4663


■ 63.8404, 0.2837,  
0.5372


■ 68.8186, 0.2837,  
0.4409


■ 63.5570, 0.2860,  
0.5498


■ 71.1926, 0.2876,  
0.4161


■ 74.0917, 0.2926,  
0.3928

 77.5462, 0.2983,  
0.3713

 81.5839, 0.3043,  
0.3518

 86.2309, 0.3106,  
0.3345

 91.1563, 0.3156,  
0.3191

 91.3916, 0.3133,  
0.3156

# Harmonies

## Analogous

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



65.5069, 0.3721, 0.5132



65.5069, 0.2802, 0.4916



65.5069, 0.2021, 0.3931

# Triad

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



65.5069, 0.2802, 0.4916



65.5069, 0.1741, 0.1873



65.5069, 0.4957, 0.3306

# Complementary

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



65.5069, 0.2802, 0.4916



25.6327, 0.3951, 0.2189

# 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.



65.5069, 0.4240, 0.2679



65.5069, 0.2802, 0.4916



65.5069, 0.2311, 0.1897

# Square

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



65.5069, 0.2802, 0.4916



65.5069, 0.1502, 0.2159



65.5069, 0.3209, 0.2181



65.5069, 0.5033, 0.3990



# Rectangle

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



65.5069, 0.2802, 0.4916



65.5069, 0.1686, 0.3176



65.5069, 0.3209, 0.2181



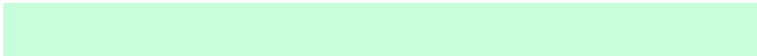
65.5069, 0.4781, 0.3089

# Sweetspot

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



65.5096, 0.2802, 0.4916



88.7383, 0.2991, 0.3685



73.2302, 0.3661, 0.5187



18.7460, 0.2975, 0.3741



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.



65.5096, 0.2802, 0.4916



72.9121, 0.2821, 0.5264



68.7325, 0.2428, 0.3676



17.7477, 0.3068, 0.3447



34.4881, 0.2852, 0.5468



2.8873, 0.2778, 0.5202



# Inverse Universe

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



25.6327, 0.3951, 0.2189



25.3724, 0.4183, 0.2140



23.1749, 0.5269, 0.3044



15.9320, 0.3192, 0.3138



11.4813, 0.4338, 0.2163

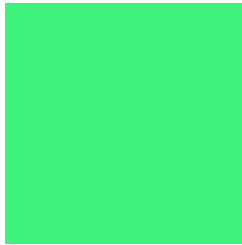


0.9739, 0.4151, 0.2060



# Previews

## White Background



This preview shows how the Yxy color 65.5069, 0.2802, 0.4916 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

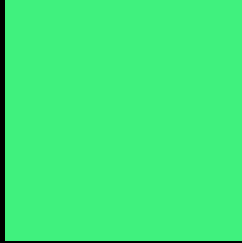
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 65.5069, 0.2802, 0.4916 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 65.5069, 0.2802, 0.4916**

## **Background**



This preview shows how black text looks on a background with the Yxy color 65.5069, 0.2802, 0.4916.



This preview shows how white text looks on a background with the Yxy color 65.5069, 0.2802, 0.4916.

# 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

65.5069, 0.2802, 0.4916

### Protanopia

64.3199, 0.3968, 0.4319

### Deuteranopia

63.7816, 0.4048, 0.3957



## Tritanopia

65.3288, 0.2374, 0.3067

# Trichromacy



## Original Color

65.5069, 0.2802, 0.4916



## Protanomaly

61.5909, 0.3408, 0.4587



## Deuteranomaly

60.4572, 0.3454, 0.4329



## Tritanomaly

64.8174, 0.2525, 0.3702

# Monochromacy



## Original Color

65.5069, 0.2802, 0.4916



## Achromatopsia

42.8690, 0.3127, 0.3290



## Achromatomaly

48.4321, 0.2938, 0.3898

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 65.5069, 0.2802, 0.4916 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(64, 241, 126)` looks like.

```
.text, #text, p{  
    color:rgb(64, 241, 126)  
}
```

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(64, 241, 126) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 241, 126) }
```

## Border

The CSS property to change the border of an element to Yxy 65.5069, 0.2802, 0.4916 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(64, 241, 126) }
```

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

```
.border{ border-color:rgb(64, 241, 126) }
```

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

Here you see how a box with a 4 pixel `rgb(64, 241, 126)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 241, 126); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 241, 126);  
box-shadow:4px 4px 4px 4px rgb(64, 241,  
126) }
```



# Background

The CSS property to change the background color of an element to Yxy 65.5069, 0.2802, 0.4916 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 241, 126) }
```

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

```
.background{ background-color: rgb(64, 241,  
126) }
```

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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