

# Converting Colors

$Y_{xy}(50.0349, 0.2789, 0.4903)$

Have a look what the booklet for  
Yxy(50.0349, 0.2789, 0.4903)  
contains.

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**Color**

**Yxy(50.0199, 0.2790, 0.4907)**

# Conversions

## Conversions Part 1

Format	Color
Hex	35D670
RGB	53, 214, 112
RGB Percent	21%, 84%, 44%
CMY	0.7919, 0.1608, 0.5609
CMYK	0.75, 0.00, 0.48, 0.16
HSL	142°, 66%, 52%
HSV	142°, 75%, 84%
XYZ	28.4401, 50.0199, 23.4758
YIQ	154.2330, -63.2140, -65.8540

# Conversions

## Conversions Part 2

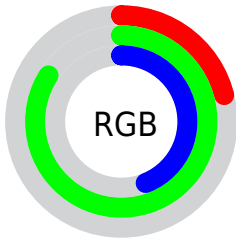
Format	Color
<a href="#">RYB</a>	<a href="#">53, 171, 214</a>
Decimal	<a href="#">3528304</a>
CIELab	<a href="#">76.08, -62.48, 38.83</a>
CIELCh	<a href="#">76, 73.562, 148.136</a>
Yxy	<a href="#">50.0199, 0.2790, 0.4907</a>
Android (android.graphics.Color)	<a href="#">4281718384 (0xFF35D670)</a>
YUV	<a href="#">154.2330, -20.8209, -88.7813</a>
Hunter-Lab	<a href="#">70.7247, -51.9892, 29.8271</a>

# Details

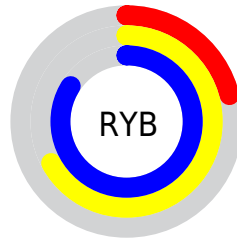
The Yxy color **50.0199, 0.2790, 0.4907** is a dark color, and the websafe version is hex **33CC66**. The color can be described as dark muted spring green. A complement of this color would be **19.2173, 0.4012, 0.2207**, and the grayscale version is **32.5433, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.4476, 0.2862, 0.4426**, and **24.7906, 0.2818, 0.5346** is the 20% darker color. If you saturate the color by 10%, you get **49.2854, 0.2801, 0.5140**, and if you desaturate by 10%, it is **51.0628, 0.2798, 0.4662**.

# Distribution



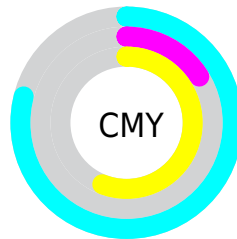
- Red (21%)
- Green (84%)
- Blue (44%)



- Red (21%)
- Yellow (67%)
- Blue (84%)



- Cyan (75%)
- Magenta (0%)
- Yellow (48%)
- Black (16%)




- Cyan (79%)
- Magenta (16%)
- Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.0199, 0.2790, 0.4907 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 50.0199, 0.2790, 0.4907 by changing the saturation by 10% instead.





 50.0199, 0.2790,  
0.4907


 50.0199, 0.2790,  
0.4907


386.7438, 0.2996,  
0.4042

 35.4292, 0.2726,  
0.5137


 90.2044, 0.2874,  
0.4581

 23.9937, 0.2636,  
0.5439


 116.5669, 0.2903,  
0.4462

 15.3289, 0.2504,  
0.5849


 147.6222, 0.2926,  
0.4363

 9.0506, 0.2296,  
0.6425

 183.7547, 0.2945,  
0.4279

 4.7742, 0.1972,  
0.7366

 225.3487, 0.2961,  
0.4207

 2.1154, 0.0732,  
0.9268


272.7886, 0.2974,


 0.6733, 0.0000,


0.4145


1.0000


326.4588, 0.2986,  
0.4090


 0.0000, 0.0000,  
0.0000


 50.0199, 0.2790,  
0.4907


 50.0199, 0.2790,  
0.4907


 49.2854, 0.2801,  
0.5140


 51.0628, 0.2798,  
0.4662


 48.8138, 0.2829,  
0.5350

 52.4405, 0.2822,  
0.4415

 48.6492, 0.2845,  
0.5441

 54.1831, 0.2861,  
0.4174

 56.3157, 0.2911,  
0.3946

 58.8611, 0.2968,  
0.3735

61.8403, 0.3030,  
0.3543

65.2728, 0.3094,  
0.3372

69.1770, 0.3158,  
0.3220

73.5700, 0.3221,  
0.3086

# Harmonies

## Analogous

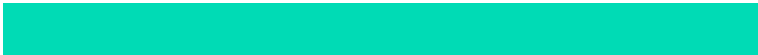
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



50.0199, 0.3709, 0.5134



50.0199, 0.2790, 0.4907



50.0199, 0.2012, 0.3915

# Triad

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



50.0199, 0.2790, 0.4907



50.0199, 0.1747, 0.1871



50.0199, 0.4962, 0.3315

# Complementary

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



50.0199, 0.2790, 0.4907



19.2173, 0.4012, 0.2207

# 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.



50.0199, 0.4253, 0.2687



50.0199, 0.2790, 0.4907



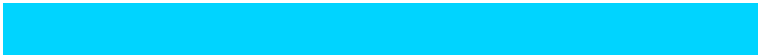
50.0199, 0.2321, 0.1899

# Square

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



50.0199, 0.2790, 0.4907



50.0199, 0.1503, 0.2153



50.0199, 0.3223, 0.2187



50.0199, 0.5030, 0.3999



# Rectangle

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



50.0199, 0.2790, 0.4907



50.0199, 0.1681, 0.3162



50.0199, 0.3223, 0.2187



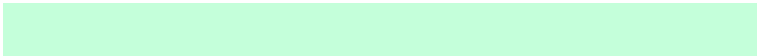
50.0199, 0.4789, 0.3097

# Sweetspot

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



50.0219, 0.2790, 0.4907



88.3552, 0.2980, 0.3695



55.5877, 0.3641, 0.5225



18.5905, 0.2958, 0.3769



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.



50.0219, 0.2790, 0.4907



72.8482, 0.2815, 0.5262



52.5643, 0.2411, 0.3642



13.9704, 0.3067, 0.3441



29.4229, 0.2837, 0.5414



1.7903, 0.2739, 0.5059



# Inverse Universe

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



19.2173, 0.4012, 0.2207



24.9168, 0.4271, 0.2174



17.3865, 0.5367, 0.3074



12.5520, 0.3193, 0.3143



9.7304, 0.4394, 0.2194



0.6026, 0.4137, 0.2053



# Previews

## White Background



This preview shows how the Yxy color 50.0199, 0.2790, 0.4907 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 50.0199, 0.2790, 0.4907 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 50.0199, 0.2790, 0.4907**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.0199, 0.2790, 0.4907.



This preview shows how white text looks on a background with the Yxy color 50.0199, 0.2790, 0.4907.

# 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

50.0199, 0.2790, 0.4907

### Protanopia

49.0563, 0.3964, 0.4309

### Deuteranopia

49.0686, 0.4038, 0.3954



## Tritanopia

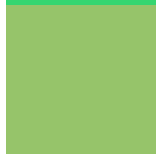
49.6827, 0.2370, 0.3067

# Trichromacy



## Original Color

50.0199, 0.2790, 0.4907



## Protanomaly

47.0045, 0.3397, 0.4573



## Deuteranomaly

46.2510, 0.3434, 0.4315



## Tritanomaly

49.0596, 0.2517, 0.3693

# Monochromacy



## Original Color

50.0199, 0.2790, 0.4907



## Achromatopsia

32.3143, 0.3127, 0.3290



## Achromatomaly

36.6967, 0.2919, 0.3892

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.0199, 0.2790, 0.4907 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(53, 214, 112)` looks like.

```
.text, #text, p{  
    color:rgb(53, 214, 112)  
}
```

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(53, 214, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(53, 214, 112) }
```

## Border

The CSS property to change the border of an element to Yxy 50.0199, 0.2790, 0.4907 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(53, 214, 112) }
```

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

```
.border{ border-color:rgb(53, 214, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(53, 214, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(53, 214, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(53, 214, 112);  
box-shadow:4px 4px 4px 4px rgb(53, 214,  
112) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.0199, 0.2790, 0.4907 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(53, 214, 112) }
```

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

```
.background{ background-color: rgb(53, 214,  
112) }
```

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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