

# Converting Colors

Yxy(45.2987, 0.2713, 0.4642)

Have a look what the booklet for  
Yxy(45.2987, 0.2713, 0.4642)  
contains.

**Yxy(45.2947, 0.2714, 0.4644)** ..... 3

***Conversions*** ..... 4

***Details*** ..... 6

***Harmonies*** ..... 12

***Previews*** ..... 24

***Color Blindness Simulation*** ..... 27

***CSS Examples*** ..... 30

# Color

**Yxy(45.2947, 0.2714, 0.4644)**

# Conversions

Conversions Part 1	
Format	Color
Hex	33CC7A
RGB	51, 204, 122
RGB Percent	20%, 80%, 48%
CMY	0.8002, 0.2000, 0.5215
CMYK	0.75, 0.00, 0.40, 0.20
HSL	148°, 60%, 50%
HSV	148°, 75%, 80%
XYZ	26.4707, 45.2947, 25.7684
YIQ	148.9050, -64.8660, -57.9380

# Conversions

## Conversions Part 2

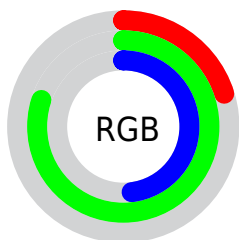
Format	Color
<a href="#">RYB</a>	<a href="#">51, 156, 204</a>
Decimal	<a href="#">3394682</a>
CIELab	<a href="#">73.09, -57.47, 29.89</a>
CIELCh	<a href="#">73, 64.774, 152.524</a>
Yxy	<a href="#">45.2947, 0.2714, 0.4644</a>
Android (android.graphics.Color)	<a href="#">4281584762</a> (0xFF33CC7A)
YUV	<a href="#">148.9050, -13.2642, -85.8627</a>
Hunter-Lab	<a href="#">67.3013, -47.5705, 24.4099</a>

# Details

The Yxy color **45.2947, 0.2714, 0.4644** 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 **16.8940, 0.4267, 0.2378**, and the grayscale version is **30.0872, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.5371, 0.2798, 0.4299**, and **21.6477, 0.2729, 0.5023** is the 20% darker color. If you saturate the color by 10%, you get **44.6223, 0.2719, 0.4850**, and if you desaturate by 10%, it is **46.2334, 0.2728, 0.4434**.

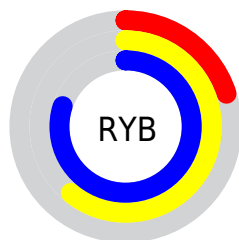
# Distribution



Red (20%)

Green (80%)

Blue (48%)



Red (20%)

Yellow (61%)

Blue (80%)

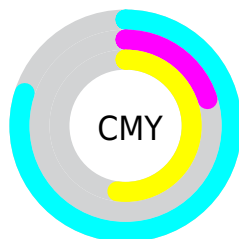


Cyan (75%)

Magenta (0%)

Yellow (40%)

Black (20%)



Cyan (80%)

Magenta (20%)


Yellow (52%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.2947, 0.2714, 0.4644 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 45.2947, 0.2714, 0.4644 by changing the saturation by 10% instead.





 45.2947, 0.2714,  
0.4644


 45.2947, 0.2714,  
0.4644


367.9658, 0.2948,  
0.3913


 31.6896, 0.2646,  
0.4844


 83.1625, 0.2806,  
0.4365

 21.1245, 0.2552,  
0.5109


 108.1939, 0.2839,  
0.4265

 13.2151, 0.2418,  
0.5478


 137.8030, 0.2865,  
0.4181

 7.5768, 0.2210,  
0.6017

 172.3740, 0.2888,  
0.4110

 3.8254, 0.1871,  
0.6882

 212.2914, 0.2906,  
0.4050

 1.5764, 0.0000,  
1.0000


257.9396, 0.2922,

 0.3416, 0.0000,

0.3998

1.0000

309.7029, 0.2936,  
0.3953

 0.0000, 0.0000,  
0.0000


 45.2947, 0.2714,  
0.4644


 45.2947, 0.2714,  
0.4644


 44.6223, 0.2719,  
0.4850

 46.2334, 0.2728,  
0.4434


 44.1769, 0.2744,  
0.5045

 47.4610, 0.2760,  
0.4225

 44.0092, 0.2760,  
0.5137

 49.0035, 0.2808,  
0.4024


 50.8825, 0.2868,  
0.3834

 53.1176, 0.2936,  
0.3659

 55.7269, 0.3011,  
0.3499

 58.7273, 0.3088,  
0.3356

 62.1344, 0.3166,  
0.3228

 65.9633, 0.3244,  
0.3116

# Harmonies

## Analogous

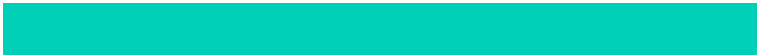
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



45.2947, 0.3562, 0.4985



45.2947, 0.2714, 0.4644



45.2947, 0.2026, 0.3708

# Triad

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



45.2947, 0.2714, 0.4644



45.2947, 0.1906, 0.1962



45.2947, 0.4851, 0.3425

# Complementary

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



45.2947, 0.2714, 0.4644



16.8940, 0.4267, 0.2378

# 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.



45.2947, 0.4277, 0.2820



45.2947, 0.2714, 0.4644



45.2947, 0.2494, 0.2022

# Square

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



45.2947, 0.2714, 0.4644



45.2947, 0.1631, 0.2188



45.2947, 0.3358, 0.2325



45.2947, 0.4844, 0.4070

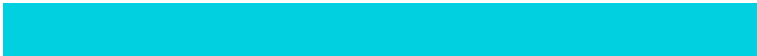


# Rectangle

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



45.2947, 0.2714, 0.4644



45.2947, 0.1744, 0.3050



45.2947, 0.3358, 0.2325



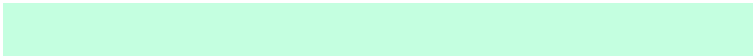
45.2947, 0.4720, 0.3216

# Sweetspot

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



45.2965, 0.2714, 0.4644



88.6621, 0.2949, 0.3630



48.5887, 0.3516, 0.5304



18.6640, 0.2922, 0.3692



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.



45.2965, 0.2714, 0.4644



73.4010, 0.2733, 0.4972



47.8923, 0.2341, 0.3402



12.6222, 0.3054, 0.3417



27.7170, 0.2753, 0.5112



1.4452, 0.2649, 0.4735



# Inverse Universe

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



16.8940, 0.4267, 0.2378



24.1286, 0.4629, 0.2378



15.5140, 0.5592, 0.3229



11.3125, 0.3208, 0.3167



8.7976, 0.4793, 0.2414

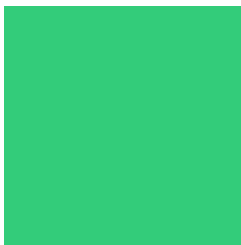


0.4691, 0.4401, 0.2198



# Previews

## White Background



This preview shows how the Yxy color 45.2947, 0.2714, 0.4644 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

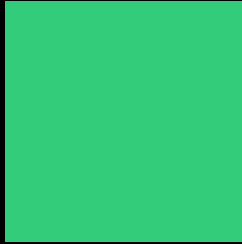
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.2947, 0.2714, 0.4644 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

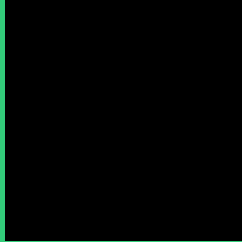
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.2947, 0.2714, 0.4644**

## Background



This preview shows how black text looks on a background with the Yxy color 45.2947, 0.2714, 0.4644.



This preview shows how white text looks on a background with the Yxy color 45.2947, 0.2714, 0.4644.

# 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

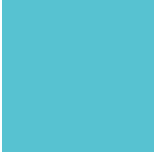
45.2947, 0.2714, 0.4644

### Protanopia

44.4800, 0.3829, 0.4145

### Deuteranopia

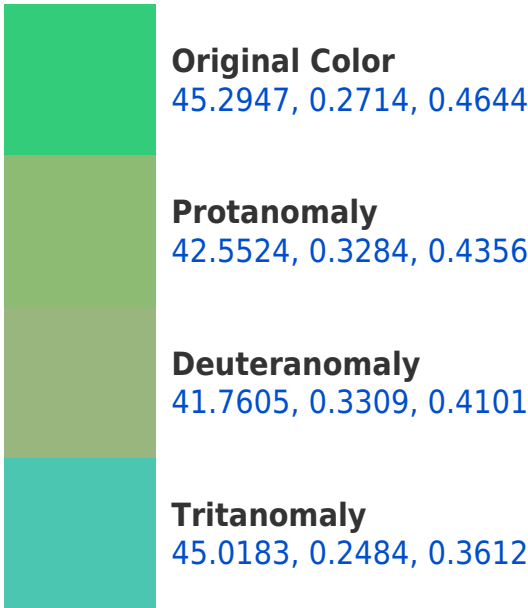
44.2100, 0.3878, 0.3787



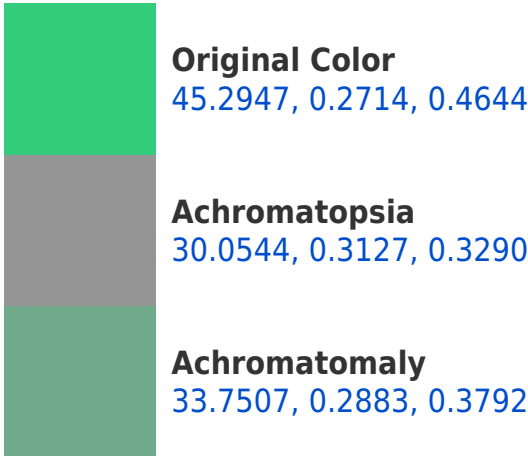
## **Tritanopia**

45.2133, 0.2360, 0.3072

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.2947, 0.2714, 0.4644 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(51, 204, 122)` looks like.

```
.text, #text, p{  
    color:rgb(51, 204, 122)  
}
```

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(51, 204, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 204, 122) }
```

## Border

The CSS property to change the border of an element to Yxy 45.2947, 0.2714, 0.4644 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(51, 204, 122) }
```

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

```
.border{ border-color:rgb(51, 204, 122) }
```

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

Here you see how a box with a 4 pixel rgb(51, 204, 122) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 204, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 204, 122);  
box-shadow:4px 4px 4px 4px rgb(51, 204,  
122) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.2947, 0.2714, 0.4644 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 204, 122) }
```

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

```
.background{ background-color: rgb(51, 204,  
122) }
```

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](#).

Hey! You found this booklet  
interesting? Support Converting  
Colors with the new Membership  
Option!

The pro membership hides all ads, plus gives you  
double the colors in the color bucket, and more  
awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor