

# Converting Colors

$Y_{xy}(45.3274, 0.2772, 0.4896)$

Have a look what the booklet for  
Yxy(45.3274, 0.2772, 0.4896)  
contains.

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# Color

**Yxy(45.3262, 0.2772, 0.4896)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2ECD6C
RGB	46, 205, 108
RGB Percent	18%, 80%, 42%
CMY	0.8200, 0.1961, 0.5764
CMYK	0.78, 0.00, 0.47, 0.20
HSL	143°, 63%, 49%
HSV	143°, 78%, 80%
XYZ	25.6626, 45.3262, 21.5892
YIQ	146.4010, -63.6270, -63.8750

# Conversions

## Conversions Part 2

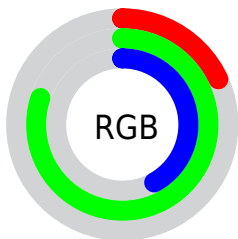
Format	Color
<a href="#">RYB</a>	<a href="#">46, 160, 205</a>
Decimal	<a href="#">3067244</a>
CIELab	<a href="#">73.11, -60.91, 37.01</a>
CIELCh	<a href="#">73, 71.274, 148.720</a>
Yxy	<a href="#">45.3262, 0.2772, 0.4896</a>
Android (android.graphics.Color)	<a href="#">4281257324 (0xFF2ECD6C)</a>
YUV	<a href="#">146.4010, -18.9317, -88.0517</a>
Hunter-Lab	<a href="#">67.3247, -49.7782, 28.1146</a>

# Details

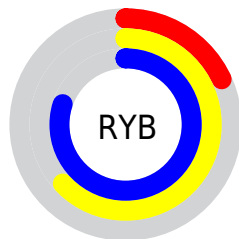
The Yxy color **45.3262, 0.2772, 0.4896** is a dark color, and the websafe version is hex **33CC66**. The color can be described as dark muted spring green. A complement of this color would be **16.9073, 0.4115, 0.2237**, and the grayscale version is **29.0079, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.8751, 0.2854, 0.4487**, and **21.8004, 0.2813, 0.5328** is the 20% darker color. If you saturate the color by 10%, you get **44.7138, 0.2786, 0.5119**, and if you desaturate by 10%, it is **46.2074, 0.2777, 0.4661**.

# Distribution



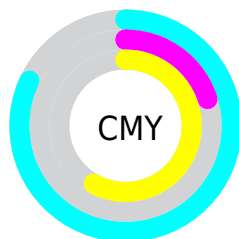
- Red (18%)
- Green (80%)
- Blue (42%)



- Red (18%)
- Yellow (63%)
- Blue (80%)



- Cyan (78%)
- Magenta (0%)
- Yellow (47%)
- Black (20%)




- Cyan (82%)
- Magenta (20%)
- Yellow (58%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.3262, 0.2772, 0.4896 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 45.3262, 0.2772, 0.4896 by changing the saturation by 10% instead.





 45.3262, 0.2772,  
0.4896


 45.3262, 0.2772,  
0.4896


368.0931, 0.2989,  
0.4024


 31.7144, 0.2704,  
0.5134


 83.2097, 0.2861,  
0.4564

 21.1435, 0.2607,  
0.5449


 108.2502, 0.2891,  
0.4443

 13.2289, 0.2463,  
0.5882

 137.8691, 0.2916,  
0.4343

 7.5864, 0.2233,  
0.6504

 172.4508, 0.2936,  
0.4259

 3.8314, 0.1905,  
0.7697

 212.3796, 0.2952,  
0.4187

 1.5797, 0.0000,  
1.0000


258.0400, 0.2966,


 0.3439, 0.0000,


0.4125


1.0000

309.8164, 0.2978,  
0.4071


 0.0000, 0.0000,  
0.0000


 45.3262, 0.2772,  
0.4896

 45.3262, 0.2772,  
0.4896

 44.7138, 0.2786,  
0.5119


 46.2074, 0.2777,  
0.4661


 44.3227, 0.2816,  
0.5322

 47.3821, 0.2799,  
0.4423

 44.2457, 0.2824,  
0.5367

 48.8778, 0.2837,  
0.4190

 50.7177, 0.2887,  
0.3968

 52.9224, 0.2945,  
0.3762

■ 55.5110, 0.3009,  
0.3575

■ 58.5012, 0.3076,  
0.3406

■ 61.9097, 0.3143,  
0.3256

■ 65.7521, 0.3210,  
0.3123

# Harmonies

## Analogous

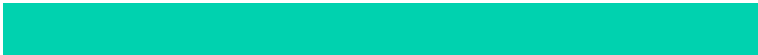
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



45.3262, 0.3692, 0.5140



45.3262, 0.2772, 0.4896



45.3262, 0.1999, 0.3893

# Triad

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



45.3262, 0.2772, 0.4896



45.3262, 0.1753, 0.1868



45.3262, 0.4972, 0.3328

# Complementary

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



45.3262, 0.2772, 0.4896



16.9073, 0.4115, 0.2237

# 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.



45.3262, 0.4272, 0.2698



45.3262, 0.2772, 0.4896



45.3262, 0.2335, 0.1901

# Square

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



45.3262, 0.2772, 0.4896



45.3262, 0.1503, 0.2143



45.3262, 0.3243, 0.2194



45.3262, 0.5026, 0.4013

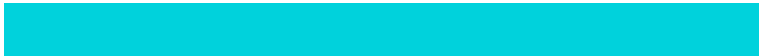


# Rectangle

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



45.3262, 0.2772, 0.4896



45.3262, 0.1672, 0.3141



45.3262, 0.3243, 0.2194



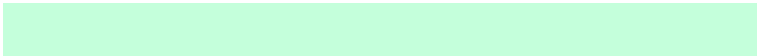
45.3262, 0.4803, 0.3109

# Sweetspot

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



45.3280, 0.2772, 0.4896



88.4302, 0.2972, 0.3679



49.7938, 0.3598, 0.5296



18.6084, 0.2949, 0.3750



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.



45.3280, 0.2772, 0.4896



72.7824, 0.2805, 0.5255



47.8090, 0.2379, 0.3570



12.6083, 0.3064, 0.3435



27.5599, 0.2817, 0.5340



1.4366, 0.2705, 0.4939



# Inverse Universe

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



16.9073, 0.4115, 0.2237



24.3113, 0.4410, 0.2233



15.3029, 0.5547, 0.3133



11.3266, 0.3196, 0.3150



9.0204, 0.4488, 0.2246



0.4800, 0.4174, 0.2073



# Previews

## White Background



This preview shows how the Yxy color 45.3262, 0.2772, 0.4896 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 45.3262, 0.2772, 0.4896 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 45.3262, 0.2772, 0.4896**

## Background



This preview shows how black text looks on a background with the Yxy color 45.3262, 0.2772, 0.4896.

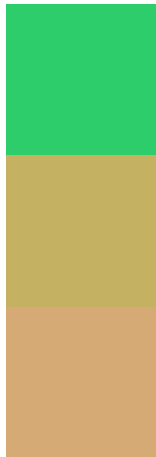


This preview shows how white text looks on a background with the Yxy color 45.3262, 0.2772, 0.4896.

# 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

45.3262, 0.2772, 0.4896

### Protanopia

44.4584, 0.3957, 0.4303

### Deuteranopia

44.3299, 0.4023, 0.3935



## Tritanopia

45.2617, 0.2364, 0.3073

# Trichromacy



## Original Color

45.3262, 0.2772, 0.4896



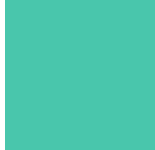
## Protanomaly

42.5885, 0.3369, 0.4575



## Deuteranomaly

41.8542, 0.3406, 0.4305



## Tritanomaly

44.7832, 0.2506, 0.3694

# Monochromacy



## Original Color

45.3262, 0.2772, 0.4896



## Achromatopsia

28.7441, 0.3127, 0.3290



## Achromatomaly

32.6184, 0.2911, 0.3889

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.3262, 0.2772, 0.4896 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(46, 205, 108)` looks like.

```
.text, #text, p{  
    color:rgb(46, 205, 108)  
}
```

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(46, 205, 108) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 205, 108) }
```

## Border

The CSS property to change the border of an element to Yxy 45.3262, 0.2772, 0.4896 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(46, 205, 108) }
```

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

```
.border{ border-color:rgb(46, 205, 108) }
```

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

Here you see how a box with a 4 pixel `rgb(46, 205, 108)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 205, 108); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 205, 108);  
box-shadow:4px 4px 4px 4px rgb(46, 205,  
108) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.3262, 0.2772, 0.4896 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 205, 108) }
```

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

```
.background{ background-color: rgb(46, 205,  
108) }
```

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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