

# Converting Colors

$Y_{xy}(45.4810, 0.2259, 0.2955)$

Have a look what the booklet for  
Yxy(45.4810, 0.2259, 0.2955)  
contains.

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# Color

**Yxy(45.4099, 0.2255, 0.2946)**

# Conversions

## Conversions Part 1

Format	Color
Hex	45C3DB
RGB	69, 195, 219
RGB Percent	27%, 76%, 86%
CMY	0.7294, 0.2353, 0.1411
CMYK	0.68, 0.11, 0.00, 0.14
HSL	190°, 68%, 56%
HSV	190°, 68%, 86%
XYZ	34.7588, 45.4099, 73.9722
YIQ	160.0620, -82.8000, -19.2480

# Conversions

## Conversions Part 2

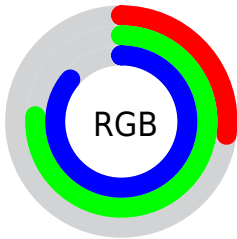
Format	Color
<b>RYB</b>	69, 137, 219
Decimal	4572123
CIELab	73.16, -26.76, -22.09
CIELCh	73, 34.700, 219.546
Yxy	45.4099, 0.2255, 0.2946
Android (android.graphics.Color)	4282762203 (0xFF45C3DB)
YUV	160.0620, 29.0564, -79.8614
Hunter-Lab	67.3869, -25.8551, -17.9133

# Details

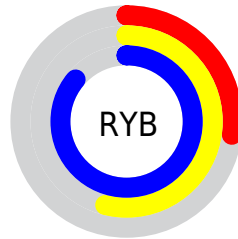
The Yxy color **45.4099, 0.2255, 0.2946** is a light color, and the websafe version is hex **66CCCC**. The color can be described as light muted cyan. A complement of this color would be **23.3309, 0.5194, 0.3542**, and the grayscale version is **35.0785, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.9917, 0.2494, 0.3254**, and **21.7301, 0.2123, 0.2844** is the 20% darker color. If you saturate the color by 10%, you get **43.1989, 0.2187, 0.2888**, and if you desaturate by 10%, it is **47.9566, 0.2342, 0.3003**.

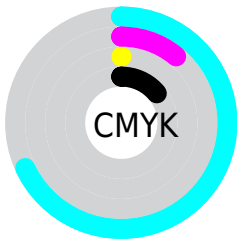
# Distribution



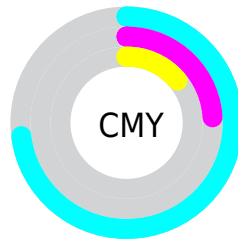
- Red (27%)
- Green (76%)
- Blue (86%)



- Red (27%)
- Yellow (54%)
- Blue (86%)



- Cyan (68%)
- Magenta (11%)
- Yellow (0%)
- Black (14%)




- Cyan (73%)
- Magenta (24%)
- Yellow (14%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.4099, 0.2255, 0.2946 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 45.4099, 0.2255, 0.2946 by changing the saturation by 10% instead.





 45.4099, 0.2255,  
0.2946

 45.4099, 0.2255,  
0.2946


368.4311, 0.2677,  
0.3130

 31.7804, 0.2155,  
0.2897


 83.3352, 0.2404,  
0.3015

 21.1938, 0.2031,  
0.2833

 108.3997, 0.2462,  
0.3041

 13.2658, 0.1871,  
0.2746

 138.0448, 0.2510,  
0.3062

 7.6118, 0.1662,  
0.2621

 172.6547, 0.2553,  
0.3080

 3.8476, 0.1377,  
0.2432

212.6139, 0.2590,  
0.3095

 1.5887, 0.0978,  
0.2124

258.3068, 0.2622,

 0.3499, 0.0000,

0.3108

0.1330

310.1177, 0.2651,  
0.3120

0.0000, 0.0000,  
0.0000

45.4099, 0.2255,  
0.2946

45.4099, 0.2255,  
0.2946

43.1989, 0.2187,  
0.2888

47.9566, 0.2342,  
0.3003

41.2840, 0.2138,  
0.2831

50.8636, 0.2448,  
0.3059

39.6152, 0.2106,  
0.2774

54.1582, 0.2569,  
0.3113

39.3741, 0.2102,  
0.2766

57.8640, 0.2703,  
0.3164

62.0023, 0.2846,  
0.3211

■ 66.5929, 0.2997,  
0.3256

■ 71.6542, 0.3150,  
0.3296

■ 77.2037, 0.3305,  
0.3332

■ 81.0839, 0.3379,  
0.3366

# Harmonies

## Analogous

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



45.4099, 0.2449, 0.3408



45.4099, 0.2255, 0.2946



45.4099, 0.2272, 0.2632

# Triad

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



45.4099, 0.2255, 0.2946



45.4099, 0.3387, 0.2793



45.4099, 0.3754, 0.4132

# Complementary

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



45.4099, 0.2255, 0.2946



23.3309, 0.5194, 0.3542

# 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.



45.4099, 0.4048, 0.3880



45.4099, 0.2255, 0.2946



45.4099, 0.3838, 0.3126

# Square

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



45.4099, 0.2255, 0.2946



45.4099, 0.2892, 0.2573



45.4099, 0.4086, 0.3513



45.4099, 0.3303, 0.4151

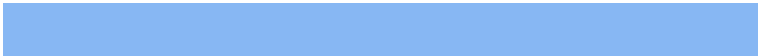


# Rectangle

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



45.4099, 0.2255, 0.2946



45.4099, 0.2399, 0.2529



45.4099, 0.4086, 0.3513



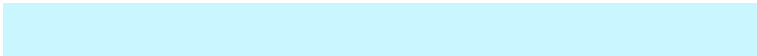
45.4099, 0.3875, 0.4068

# Sweetspot

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



45.4116, 0.2255, 0.2946



85.8683, 0.2807, 0.3199



52.7096, 0.2940, 0.5217



18.0279, 0.2767, 0.3186



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

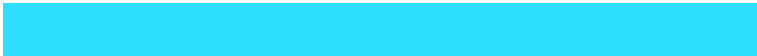


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



45.4116, 0.2255, 0.2946



59.7776, 0.2164, 0.2864



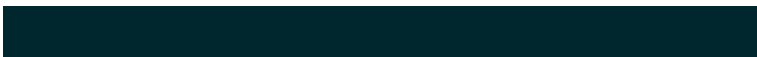
20.1824, 0.1976, 0.1800



14.4558, 0.2982, 0.3252



23.4741, 0.2104, 0.2774



1.6179, 0.2130, 0.2867



# Inverse Universe

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



23.2625, 0.3480, 0.1965



28.4535, 0.3567, 0.1834



42.9582, 0.4466, 0.4357



13.2371, 0.3162, 0.3096



10.9935, 0.3658, 0.1789

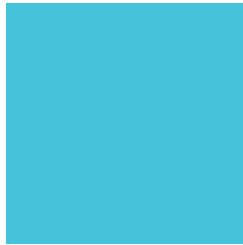


0.7220, 0.3573, 0.1742



# Previews

## White Background



This preview shows how the Yxy color 45.4099, 0.2255, 0.2946 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

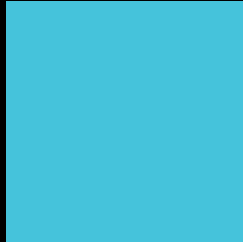
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.4099, 0.2255, 0.2946 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

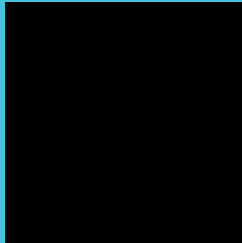
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.4099, 0.2255, 0.2946**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.4099, 0.2255, 0.2946.



This preview shows how white text looks on a background with the Yxy color 45.4099, 0.2255, 0.2946.

# 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

45.4099, 0.2255, 0.2946

### Protanopia

44.8335, 0.2864, 0.2904

### Deuteranopia

44.8124, 0.2736, 0.2677



## Tritanopia

45.3571, 0.2278, 0.3056

# Trichromacy



## Original Color

45.4099, 0.2255, 0.2946



## Protanomaly

44.1350, 0.2573, 0.2920



## Deuteranomaly

43.8807, 0.2506, 0.2755



## Tritanomaly

45.5444, 0.2267, 0.3015

# Monochromacy



## Original Color

45.4099, 0.2255, 0.2946



## Achromatopsia

35.1533, 0.3127, 0.3290



## Achromatomaly

37.7354, 0.2690, 0.3169

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.4099, 0.2255, 0.2946 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(69, 195, 219)` looks like.

```
.text, #text, p{  
    color:rgb(69, 195, 219)  
}
```

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(69, 195, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 195, 219) }
```

## Border

The CSS property to change the border of an element to Yxy 45.4099, 0.2255, 0.2946 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(69, 195, 219) }
```

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

```
.border{ border-color:rgb(69, 195, 219) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 195, 219)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 195, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 195, 219);  
box-shadow:4px 4px 4px 4px rgb(69, 195,  
219) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.4099, 0.2255, 0.2946 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 195, 219) }
```

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

```
.background{ background-color: rgb(69, 195,  
219) }
```

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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