

# Converting Colors

$Y_{xy}(49.5810, 0.2302, 0.2994)$

Have a look what the booklet for  
Yxy(49.5810, 0.2302, 0.2994)  
contains.

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# Color

**Yxy(49.4167, 0.2299, 0.2985)**

# Conversions

## Conversions Part 1

Format	Color
Hex	52CAE0
RGB	82, 202, 224
RGB Percent	32%, 79%, 88%
CMY	0.6783, 0.2079, 0.1215
CMYK	0.63, 0.10, 0.00, 0.12
HSL	189°, 70%, 60%
HSV	189°, 63%, 88%
XYZ	38.0600, 49.4167, 78.0734
YIQ	168.6280, -78.5820, -18.5980

# Conversions

## Conversions Part 2

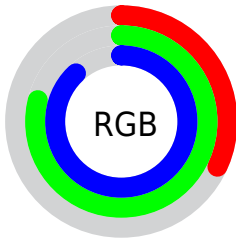
Format	Color
<a href="#">RYB</a>	<a href="#">82, 147, 224</a>
Decimal	<a href="#">5425888</a>
CIELab	<a href="#">75.71, -26.76, -20.89</a>
CIELCh	<a href="#">76, 33.952, 217.972</a>
Yxy	<a href="#">49.4167, 0.2299, 0.2985</a>
Android (android.graphics.Color)	<a href="#">4283615968</a> ( <a href="#">0xFF52CAE0</a> )
YUV	<a href="#">168.6280, 27.2984, -75.9728</a>
Hunter-Lab	<a href="#">70.2970, -26.3769, -16.6409</a>

# Details

The Yxy color **49.4167, 0.2299, 0.2985** 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 **26.3774, 0.4982, 0.3530**, and the grayscale version is **39.3815, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.7597, 0.2541, 0.3288**, and **24.0444, 0.2138, 0.2896** is the 20% darker color. If you saturate the color by 10%, you get **46.9592, 0.2222, 0.2929**, and if you desaturate by 10%, it is **52.2424, 0.2395, 0.3040**.

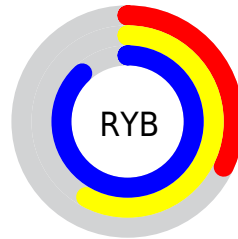
# Distribution



Red (32%)

Green (79%)

Blue (88%)



Red (32%)

Yellow (58%)

Blue (88%)

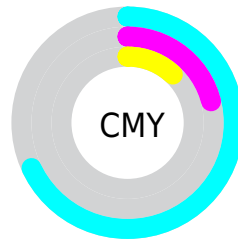


Cyan (63%)

Magenta (10%)

Yellow (0%)

Black (12%)



Cyan (68%)

Magenta (21%)


Yellow (12%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.4167, 0.2299, 0.2985 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 49.4167, 0.2299, 0.2985 by changing the saturation by 10% instead.





 49.4167, 0.2299,  
0.2985

 49.4167, 0.2299,  
0.2985


384.3805, 0.2695,  
0.3147

 34.9501, 0.2206,  
0.2943


 89.3100, 0.2438,  
0.3045


 23.6245, 0.2091,  
0.2887


 115.5056, 0.2492,  
0.3068

 15.0553, 0.1945,  
0.2812


 146.3796, 0.2538,  
0.3086

 8.8582, 0.1752,  
0.2706

 182.3165, 0.2578,  
0.3102

 4.6488, 0.1493,  
0.2547

223.7006, 0.2612,  
0.3116

 2.0427, 0.1131,  
0.2289

270.9164, 0.2643,

 0.6321, 0.0000,

0.3127

0.1897

324.3482, 0.2670,  
0.3138

0.0000, 0.0000,  
0.0000

49.4167, 0.2299,  
0.2985

49.4167, 0.2299,  
0.2985

46.9592, 0.2222,  
0.2929

52.2424, 0.2395,  
0.3040

44.8309, 0.2164,  
0.2874

55.4597, 0.2508,  
0.3093

42.9932, 0.2125,  
0.2819

59.0966, 0.2636,  
0.3144

41.8931, 0.2106,  
0.2782

63.1764, 0.2775,  
0.3192

67.7209, 0.2922,  
0.3236

■ 72.7501, 0.3075,  
0.3277

■ 78.2831, 0.3230,  
0.3314

■ 83.1299, 0.3341,  
0.3348

■ 85.0821, 0.3336,  
0.3382

# Harmonies

## Analogous

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



49.4167, 0.2496, 0.3428



49.4167, 0.2299, 0.2985



49.4167, 0.2304, 0.2675

# Triad

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



49.4167, 0.2299, 0.2985



49.4167, 0.3351, 0.2801



49.4167, 0.3745, 0.4084

# Complementary

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



49.4167, 0.2299, 0.2985



26.3774, 0.4982, 0.3530

# 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.



49.4167, 0.4013, 0.3839



49.4167, 0.2299, 0.2985



49.4167, 0.3784, 0.3117

# Square

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



49.4167, 0.2299, 0.2985



49.4167, 0.2881, 0.2597



49.4167, 0.4033, 0.3486



49.4167, 0.3321, 0.4112

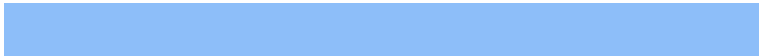


# Rectangle

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



49.4167, 0.2299, 0.2985



49.4167, 0.2419, 0.2569



49.4167, 0.4033, 0.3486



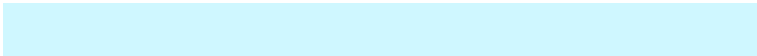
49.4167, 0.3857, 0.4021

# Sweetspot

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



49.4185, 0.2299, 0.2985



87.2373, 0.2837, 0.3211



56.1089, 0.2945, 0.5066



18.3052, 0.2794, 0.3198



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.



49.4185, 0.2299, 0.2985



62.0295, 0.2201, 0.2912



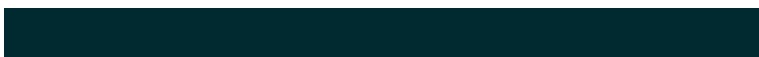
23.6105, 0.2053, 0.1927



15.1910, 0.2982, 0.3253



24.5160, 0.2109, 0.2791



1.7983, 0.2132, 0.2876



# Inverse Universe

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



26.1569, 0.3440, 0.2025



30.0511, 0.3519, 0.1872



46.8630, 0.4361, 0.4304



13.8972, 0.3161, 0.3094



11.3829, 0.3643, 0.1781

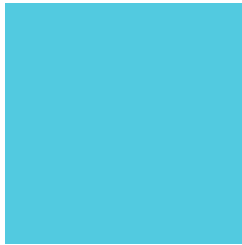


0.7990, 0.3565, 0.1738



# Previews

## White Background



This preview shows how the Yxy color 49.4167, 0.2299, 0.2985 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

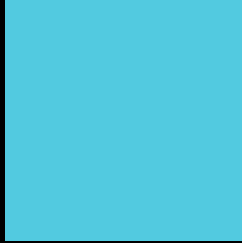
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.4167, 0.2299, 0.2985 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 49.4167, 0.2299, 0.2985**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.4167, 0.2299, 0.2985.

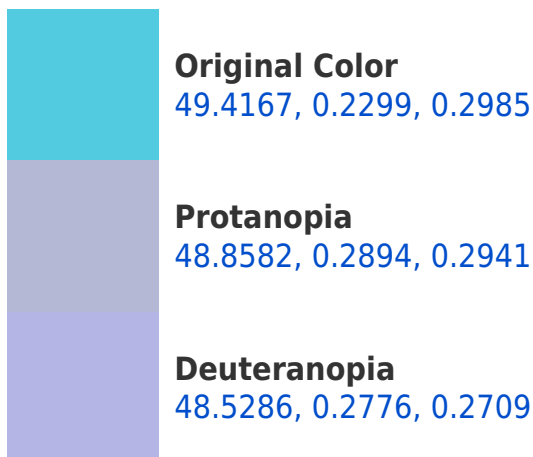


This preview shows how white text looks on a background with the Yxy color 49.4167, 0.2299, 0.2985.

# 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





## Tritanopia

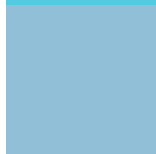
49.5318, 0.2318, 0.3065

# Trichromacy



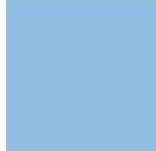
## Original Color

49.4167, 0.2299, 0.2985



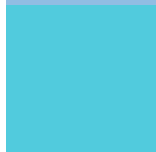
## Protanomaly

48.2392, 0.2620, 0.2960



## Deuteranomaly

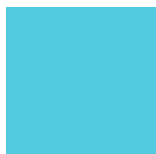
47.9610, 0.2553, 0.2799



## Tritanomaly

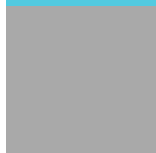
49.6817, 0.2312, 0.3039

# Monochromacy



## Original Color

49.4167, 0.2299, 0.2985



## Achromatopsia

39.6755, 0.3127, 0.3290



## Achromatomaly

42.0402, 0.2720, 0.3175

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.4167, 0.2299, 0.2985 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(82, 202, 224)` looks like.

```
.text, #text, p{  
    color:rgb(82, 202, 224)  
}
```

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(82, 202, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(82, 202, 224) }
```

## Border

The CSS property to change the border of an element to Yxy 49.4167, 0.2299, 0.2985 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(82, 202, 224) }
```

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

```
.border{ border-color:rgb(82, 202, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(82, 202, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(82, 202, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(82, 202, 224);  
box-shadow:4px 4px 4px 4px rgb(82, 202,  
224) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.4167, 0.2299, 0.2985 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(82, 202, 224) }
```

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

```
.background{ background-color: rgb(82, 202,  
224) }
```

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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