

# Converting Colors

$Y_{xy}(49.6970, 0.2562, 0.3194)$

Have a look what the booklet for  
Yxy(49.6970, 0.2562, 0.3194)  
contains.

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# Color

**Yxy(49.5140, 0.2562, 0.3192)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7BC7CE
RGB	123, 199, 206
RGB Percent	48%, 78%, 81%
CMY	0.5173, 0.2196, 0.1921
CMYK	0.40, 0.03, 0.00, 0.19
HSL	185°, 46%, 65%
HSV	185°, 40%, 81%
XYZ	39.7415, 49.5140, 65.8635
YIQ	177.0740, -47.5430, -13.9350

# Conversions

## Conversions Part 2

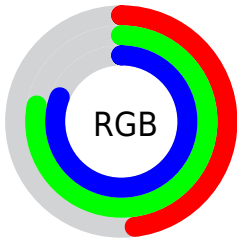
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	123, 163, 206
Decimal	8112078
CIE Lab	75.77, -21.67, -10.92
CIE LCh	76, 24.270, 206.741
Yxy	49.5140, 0.2562, 0.3192
Android (android.graphics.Color)	4286302158 (0xFF7BC7CE)
YUV	177.0740, 14.2605, -47.4229
Hunter-Lab	70.3662, -22.3274, -6.2398

# Details

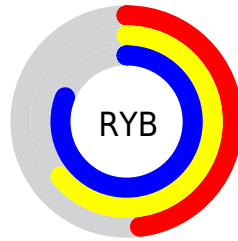
The Yxy color **49.5140, 0.2562, 0.3192** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **30.5483, 0.4102, 0.3383**, and the grayscale version is **43.9597, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.3237, 0.2696, 0.3289**, and **23.7111, 0.2410, 0.3155** is the 20% darker color. If you saturate the color by 10%, you get **47.3536, 0.2452, 0.3164**, and if you desaturate by 10%, it is **52.0072, 0.2687, 0.3219**.

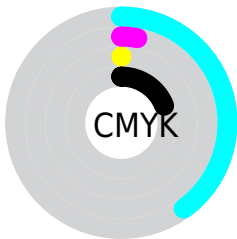
# Distribution



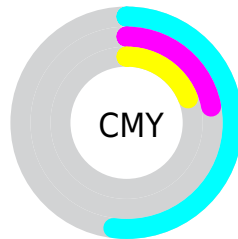
- Red (48%)
- Green (78%)
- Blue (81%)



- Red (48%)
- Yellow (64%)
- Blue (81%)



- Cyan (40%)
- Magenta (3%)
- Yellow (0%)
- Black (19%)




- Cyan (52%)
- Magenta (22%)
- Yellow (19%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.5140, 0.2562, 0.3192 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 49.5140, 0.2562, 0.3192 by changing the saturation by 10% instead.





 49.5140, 0.2562,  
0.3192


 49.5140, 0.2562,  
0.3192


384.7623, 0.2836,  
0.3246

 35.0274, 0.2496,  
0.3177


 89.4544, 0.2660,  
0.3213

 23.6840, 0.2413,  
0.3157


 115.6769, 0.2697,  
0.3220

 15.0994, 0.2305,  
0.3129


 146.5803, 0.2729,  
0.3227

 8.8891, 0.2160,  
0.3087

182.5488, 0.2756,  
0.3232

 4.6689, 0.1954,  
0.3021

223.9668, 0.2780,  
0.3236

 2.0544, 0.1645,  
0.2902

271.2188, 0.2801,

 0.6388, 0.0344,

0.3240

0.2820

324.6892, 0.2820,  
0.3243

0.0000, 0.0000,  
0.0000

49.5140, 0.2562,  
0.3192

49.5140, 0.2562,  
0.3192

47.3536, 0.2452,  
0.3164

52.0072, 0.2687,  
0.3219

45.5000, 0.2359,  
0.3135

54.8460, 0.2824,  
0.3244

43.9326, 0.2285,  
0.3106

58.0492, 0.2970,  
0.3268

42.6256, 0.2230,  
0.3077


61.6329, 0.3123,  
0.3289

41.5486, 0.2194,  
0.3048


65.6121, 0.3279,  
0.3309

 40.6657, 0.2173,  
0.3021

 70.0008, 0.3436,  
0.3327

 72.4070, 0.3497,  
0.3344

 73.2798, 0.3494,  
0.3362

 74.1621, 0.3491,  
0.3380

# Harmonies

## Analogous

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



49.5140, 0.2762, 0.3513



49.5140, 0.2562, 0.3192



49.5140, 0.2507, 0.2923

# Triad

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



49.5140, 0.2562, 0.3192



49.5140, 0.3163, 0.2864



49.5140, 0.3663, 0.3814

# Complementary

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



49.5140, 0.2562, 0.3192



30.5483, 0.4102, 0.3383

# 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.



49.5140, 0.3788, 0.3609



49.5140, 0.2562, 0.3192



49.5140, 0.3492, 0.3073

# Square

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



49.5140, 0.2562, 0.3192



49.5140, 0.2840, 0.2753



49.5140, 0.3726, 0.3340



49.5140, 0.3395, 0.3885



# Rectangle

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



49.5140, 0.2562, 0.3192



49.5140, 0.2556, 0.2806



49.5140, 0.3726, 0.3340



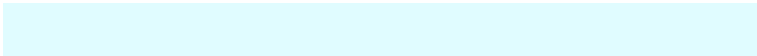
49.5140, 0.3724, 0.3757

# Sweetspot

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



49.5159, 0.2562, 0.3192



93.0088, 0.2942, 0.3263



49.9777, 0.3028, 0.4414



19.7566, 0.2923, 0.3260



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.



49.5159, 0.2562, 0.3192



77.2571, 0.2469, 0.3169



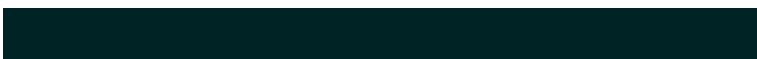
33.0029, 0.2468, 0.2586



12.5581, 0.2984, 0.3270



25.1070, 0.2174, 0.3025



1.3442, 0.2189, 0.3081



# Inverse Universe

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



31.4321, 0.3244, 0.2379



44.4959, 0.3272, 0.2206



43.8549, 0.3884, 0.3899



11.3867, 0.3150, 0.3081



10.3376, 0.3432, 0.1664

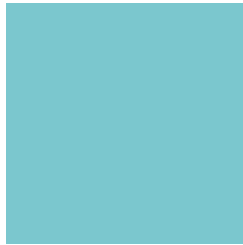


0.5382, 0.3384, 0.1638



# Previews

## White Background



This preview shows how the Yxy color 49.5140, 0.2562, 0.3192 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

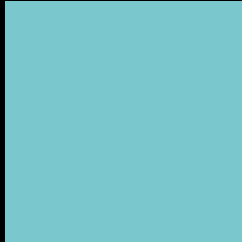
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.5140, 0.2562, 0.3192 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

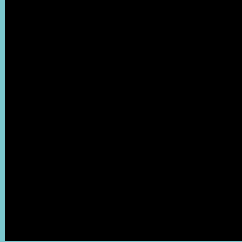
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

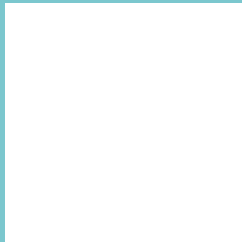
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.5140, 0.2562, 0.3192**

## Background



This preview shows how black text looks on a background with the Yxy color 49.5140, 0.2562, 0.3192.

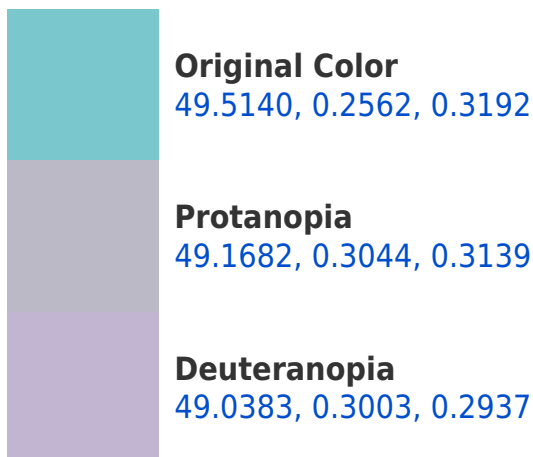


This preview shows how white text looks on a background with the Yxy color 49.5140, 0.2562, 0.3192.

# 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

49.6032, 0.2527, 0.3073

# Trichromacy



## Original Color

49.5140, 0.2562, 0.3192

## Protanomaly

48.7836, 0.2845, 0.3158

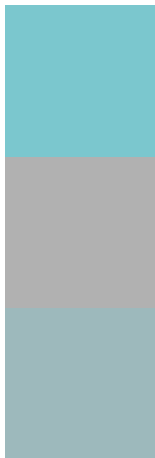
## Deuteranomaly

48.8947, 0.2819, 0.3020

## Tritanomaly

49.3764, 0.2537, 0.3112

# Monochromacy



## Original Color

49.5140, 0.2562, 0.3192

## Achromatopsia

43.9657, 0.3127, 0.3290

## Achromatomaly

45.4969, 0.2880, 0.3248

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.5140, 0.2562, 0.3192 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(123, 199, 206)` looks like.

```
.text, #text, p{  
    color:rgb(123, 199, 206)  
}
```

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(123, 199, 206) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 199, 206) }
```

## Border

The CSS property to change the border of an element to Yxy 49.5140, 0.2562, 0.3192 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(123, 199, 206) }
```

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

```
.border{ border-color:rgb(123, 199, 206) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 199, 206)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(123, 199, 206); -webkit-box-shadow:4px 4px 4px 4px rgb(123, 199, 206); box-shadow:4px 4px 4px 4px rgb(123, 199, 206) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.5140, 0.2562, 0.3192 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 199, 206) }
```

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

```
.background{ background-color: rgb(123,  
199, 206) }
```

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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