

# Converting Colors

$Y_{xy}(49.5454, 0.2409, 0.3232)$

Have a look what the booklet for  
Yxy(49.5454, 0.2409, 0.3232)  
contains.

<b>Yxy(49.3905, 0.2410, 0.3231)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(49.3905, 0.2410, 0.3231)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5ACBCF
RGB	90, 203, 207
RGB Percent	35%, 80%, 81%
CMY	0.6468, 0.2039, 0.1882
CMYK	0.56, 0.02, 0.00, 0.19
HSL	182°, 55%, 58%
HSV	182°, 56%, 81%
XYZ	36.8403, 49.3905, 66.6336
YIQ	169.6690, -68.6320, -22.7120

# Conversions

## Conversions Part 2

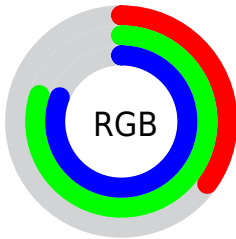
Format	Color
<a href="#">RYB</a>	<a href="#">90, 147, 207</a>
Decimal	<a href="#">5950415</a>
CIELab	<a href="#">75.69, -30.67, -11.71</a>
CIELCh	<a href="#">76, 32.833, 200.893</a>
Yxy	<a href="#">49.3905, 0.2410, 0.3231</a>
Android (android.graphics.Color)	<a href="#">4284140495</a> ( <a href="#">0xFF5ACBCF</a> )
YUV	<a href="#">169.6690, 18.4042, -69.8697</a>
Hunter-Lab	<a href="#">70.2784, -29.4164, -7.0202</a>

# Details

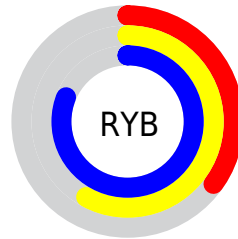
The Yxy color **49.3905, 0.2410, 0.3231** is a light color, and the websafe version is hex **66CCCC**. The color can be described as light muted cyan. A complement of this color would be **22.0270, 0.4795, 0.3343**, and the grayscale version is **39.9661, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.2240, 0.2562, 0.3288**, and **23.4862, 0.2220, 0.3189** is the 20% darker color. If you saturate the color by 10%, you get **48.1586, 0.2335, 0.3219**, and if you desaturate by 10%, it is **50.9168, 0.2504, 0.3243**.

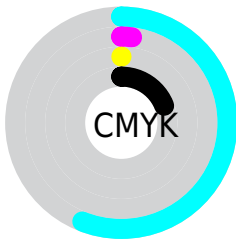
# Distribution



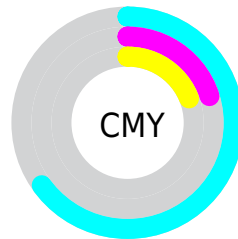
- Red (35%)
- Green (80%)
- Blue (81%)



- Red (35%)
- Yellow (58%)
- Blue (81%)



- Cyan (56%)
- Magenta (2%)
- Yellow (0%)
- Black (19%)




- Cyan (65%)
- Magenta (20%)
- Yellow (19%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.3905, 0.2410, 0.3231 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 49.3905, 0.2410, 0.3231 by changing the saturation by 10% instead.





 49.3905, 0.2410,  
0.3231

 49.3905, 0.2410,  
0.3231


384.2776, 0.2756,  
0.3269


 34.9293, 0.2328,  
0.3219


 89.2712, 0.2533,  
0.3247


 23.6085, 0.2224,  
0.3202


 115.4595, 0.2580,  
0.3252

 15.0434, 0.2091,  
0.3177


 146.3256, 0.2620,  
0.3257

 8.8499, 0.1913,  
0.3138

 182.2539, 0.2655,  
0.3260

 4.6434, 0.1666,  
0.3073

223.6289, 0.2685,  
0.3263

 2.0396, 0.1306,  
0.2948

270.8349, 0.2712,

 0.6303, 0.0000,

0.3266

0.2811

324.2564, 0.2735,  
0.3268

0.0000, 0.0000,  
0.0000

49.3905, 0.2410,  
0.3231

49.3905, 0.2410,  
0.3231

48.1586, 0.2335,  
0.3219

50.9168, 0.2504,  
0.3243

47.1908, 0.2280,  
0.3208

52.7537, 0.2614,  
0.3254

46.4602, 0.2243,  
0.3196

54.9227, 0.2740,  
0.3264

45.9299, 0.2222,  
0.3185

57.4421, 0.2879,  
0.3275

45.7676, 0.2217,  
0.3181

60.3286, 0.3027,  
0.3284

■ 63.5979, 0.3182,  
0.3293

■ 67.2648, 0.3340,  
0.3301

■ 71.2153, 0.3495,  
0.3308

■ 71.5647, 0.3493,  
0.3315

# Harmonies

## Analogous

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



49.3905, 0.2703, 0.3676



49.3905, 0.2410, 0.3231



49.3905, 0.2302, 0.2846

# Triad

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



49.3905, 0.2410, 0.3231



49.3905, 0.3080, 0.2687



49.3905, 0.3899, 0.3944

# Complementary

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



49.3905, 0.2410, 0.3231



22.0270, 0.4795, 0.3343

# 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.



49.3905, 0.4028, 0.3636



49.3905, 0.2410, 0.3231



49.3905, 0.3537, 0.2938

# Square

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



49.3905, 0.2410, 0.3231



49.3905, 0.2666, 0.2570



49.3905, 0.3895, 0.3275



49.3905, 0.3561, 0.4101



# Rectangle

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



49.3905, 0.2410, 0.3231



49.3905, 0.2340, 0.2675



49.3905, 0.3895, 0.3275



49.3905, 0.3969, 0.3853

# Sweetspot

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



49.3924, 0.2410, 0.3231



91.7376, 0.2869, 0.3274



47.6183, 0.3024, 0.5042



19.4517, 0.2840, 0.3272



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.



49.3924, 0.2410, 0.3231



76.7703, 0.2321, 0.3217



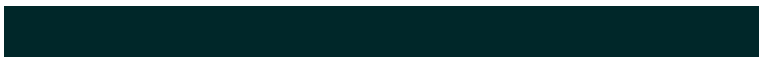
26.8234, 0.2217, 0.2327



13.3344, 0.2983, 0.3282



28.8599, 0.2218, 0.3183



1.6359, 0.2223, 0.3203



# Inverse Universe

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



24.9019, 0.3233, 0.2004



34.0763, 0.3255, 0.1809



36.6058, 0.4311, 0.4059



12.0017, 0.3143, 0.3069



10.9847, 0.3296, 0.1590

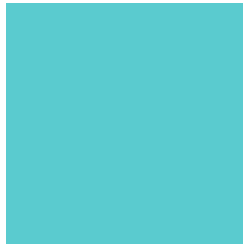


0.6164, 0.3279, 0.1580



# Previews

## White Background



This preview shows how the Yxy color 49.3905, 0.2410, 0.3231 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

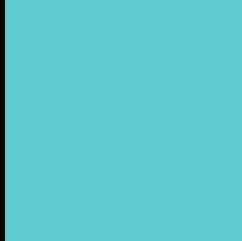
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.3905, 0.2410, 0.3231 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

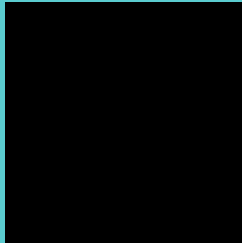
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

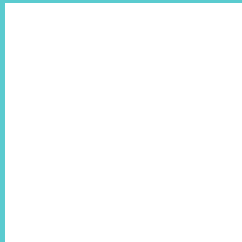
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.3905, 0.2410, 0.3231**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.3905, 0.2410, 0.3231.

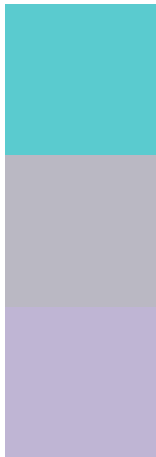


This preview shows how white text looks on a background with the Yxy color 49.3905, 0.2410, 0.3231.

# 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

49.3905, 0.2410, 0.3231

### Protanopia

48.6602, 0.3059, 0.3151

### Deuteranopia

48.8776, 0.2972, 0.2912



## Tritanopia

49.2149, 0.2367, 0.3053

# Trichromacy



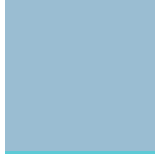
## Original Color

49.3905, 0.2410, 0.3231



## Protanomaly

47.9644, 0.2766, 0.3182



## Deuteranomaly

47.9184, 0.2714, 0.3013



## Tritanomaly

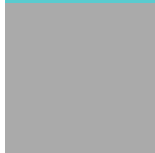
49.4233, 0.2385, 0.3121

# Monochromacy



## Original Color

49.3905, 0.2410, 0.3231



## Achromatopsia

40.1978, 0.3127, 0.3290



## Achromatomaly

42.5375, 0.2791, 0.3275

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.3905, 0.2410, 0.3231 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(90, 203, 207)` looks like.

```
.text, #text, p{  
    color:rgb(90, 203, 207)  
}
```

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(90, 203, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 203, 207) }
```

## Border

The CSS property to change the border of an element to Yxy 49.3905, 0.2410, 0.3231 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(90, 203, 207) }
```

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

```
.border{ border-color:rgb(90, 203, 207) }
```

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

Here you see how a box with a 4 pixel rgb(90, 203, 207) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 203, 207); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 203, 207);  
box-shadow:4px 4px 4px 4px rgb(90, 203,  
207) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.3905, 0.2410, 0.3231 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 203, 207) }
```

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

```
.background{ background-color: rgb(90, 203,  
207) }
```

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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