

# Converting Colors

$Y_{xy}(49.3180, 0.2452, 0.3347)$

Have a look what the booklet for  
Yxy(49.3180, 0.2452, 0.3347)  
contains.

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# Color

**Yxy(49.5334, 0.2456, 0.3360)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5BCCC7
RGB	91, 204, 199
RGB Percent	36%, 80%, 78%
CMY	0.6436, 0.1999, 0.2196
CMYK	0.55, 0.00, 0.02, 0.20
HSL	177°, 53%, 58%
HSV	177°, 55%, 80%
XYZ	36.2066, 49.5334, 61.6809
YIQ	169.6430, -65.7430, -25.5110

# Conversions

## Conversions Part 2

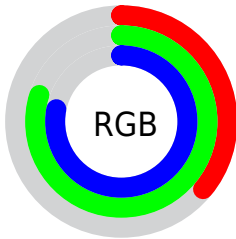
Format	Color
<a href="#">RYB</a>	<a href="#">91, 149, 204</a>
Decimal	<a href="#">6016199</a>
CIELab	<a href="#">75.78, -33.16, -7.24</a>
CIELCh	<a href="#">76, 33.939, 192.318</a>
Yxy	<a href="#">49.5334, 0.2456, 0.3360</a>
Android (android.graphics.Color)	<a href="#">4284206279</a> ( <a href="#">0xFF5BCCC7</a> )
YUV	<a href="#">169.6430, 14.4730, -68.9699</a>
Hunter-Lab	<a href="#">70.3800, -31.3367, -2.6957</a>

# Details

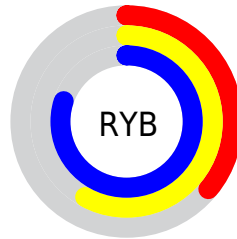
The Yxy color **49.5334, 0.2456, 0.3360** is a light color, and the websafe version is hex **66CCCC**. The color can be described as light muted cyan. A complement of this color would be **21.1451, 0.4701, 0.3233**, and the grayscale version is **39.9491, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.3193, 0.2566, 0.3288**, and **23.5973, 0.2279, 0.3368** is the 20% darker color. If you saturate the color by 10%, you get **48.5952, 0.2386, 0.3375**, and if you desaturate by 10%, it is **50.7573, 0.2545, 0.3346**.

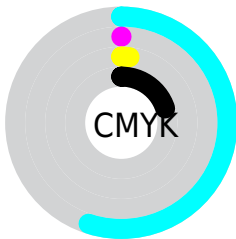
# Distribution



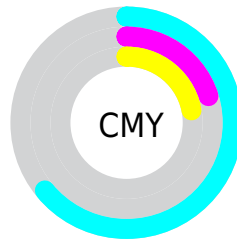
- Red (36%)
- Green (80%)
- Blue (78%)



- Red (36%)
- Yellow (58%)
- Blue (80%)



- Cyan (55%)
- Magenta (0%)
- Yellow (2%)
- Black (20%)




- Cyan (64%)
- Magenta (20%)
- Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.5334, 0.2456, 0.3360 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 49.5334, 0.2456, 0.3360 by changing the saturation by 10% instead.





 49.5334, 0.2456,  
0.3360


 49.5334, 0.2456,  
0.3360


384.8384, 0.2782,  
0.3332

 35.0428, 0.2378,  
0.3365


 89.4832, 0.2572,  
0.3352


 23.6958, 0.2279,  
0.3369


 115.7111, 0.2616,  
0.3348

 15.1081, 0.2152,  
0.3374


 146.6203, 0.2654,  
0.3345

 8.8953, 0.1980,  
0.3376

 182.5951, 0.2687,  
0.3342

 4.6730, 0.1740,  
0.3370

224.0199, 0.2715,  
0.3339

 2.0567, 0.1382,  
0.3340

271.2791, 0.2740,

 0.6401, 0.0000,

0.3337

0.3435

324.7572, 0.2762,  
0.3334

0.0000, 0.0000,  
0.0000

49.5334, 0.2456,  
0.3360

49.5334, 0.2456,  
0.3360

48.5952, 0.2386,  
0.3375

50.7573, 0.2545,  
0.3346

47.9135, 0.2335,  
0.3389

52.2821, 0.2650,  
0.3332

47.4631, 0.2303,  
0.3404


54.1285, 0.2771,  
0.3319


47.2106, 0.2288,  
0.3418


56.3137, 0.2904,  
0.3307


47.1320, 0.2285,  
0.3425

58.8540, 0.3047,  
0.3296

 61.7643, 0.3196,  
0.3286

 65.0589, 0.3348,  
0.3276

 68.7511, 0.3502,  
0.3268

 68.9659, 0.3502,  
0.3259

# Harmonies

## Analogous

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



49.5334, 0.2803, 0.3809



49.5334, 0.2456, 0.3360



49.5334, 0.2288, 0.2930

# Triad

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



49.5334, 0.2456, 0.3360



49.5334, 0.2946, 0.2619



49.5334, 0.3987, 0.3883

# Complementary

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



49.5334, 0.2456, 0.3360



21.1451, 0.4701, 0.3233

# 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.



49.5334, 0.4046, 0.3540



49.5334, 0.2456, 0.3360



49.5334, 0.3419, 0.2842

# Square

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



49.5334, 0.2456, 0.3360



49.5334, 0.2554, 0.2544



49.5334, 0.3834, 0.3168



49.5334, 0.3690, 0.4103



# Rectangle

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



49.5334, 0.2456, 0.3360



49.5334, 0.2289, 0.2720



49.5334, 0.3834, 0.3168



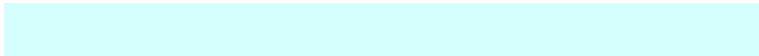
49.5334, 0.4037, 0.3777

# Sweetspot

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



49.5353, 0.2456, 0.3360



92.5617, 0.2880, 0.3309



46.4634, 0.3077, 0.5041



19.6489, 0.2852, 0.3311



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.



49.5353, 0.2456, 0.3360



80.1528, 0.2372, 0.3378



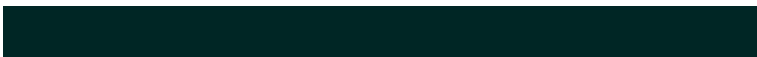
29.3964, 0.2267, 0.2504



12.7181, 0.2989, 0.3300



29.6637, 0.2284, 0.3423



1.5330, 0.2276, 0.3394



# Inverse Universe

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



21.1451, 0.4701, 0.3233



28.3920, 0.5276, 0.3232



32.8779, 0.4358, 0.3932



11.2216, 0.3283, 0.3280



8.0961, 0.6348, 0.3270

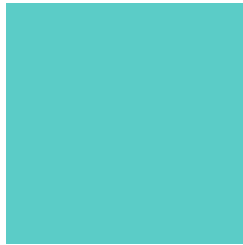


0.4206, 0.6171, 0.3173



# Previews

## White Background



This preview shows how the Yxy color 49.5334, 0.2456, 0.3360 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

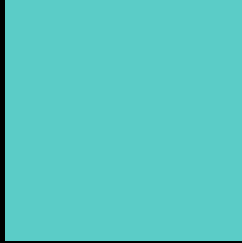
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.5334, 0.2456, 0.3360 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

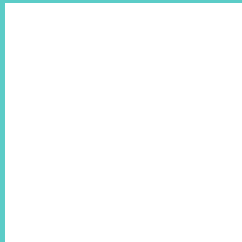
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.5334, 0.2456, 0.3360**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.5334, 0.2456, 0.3360.

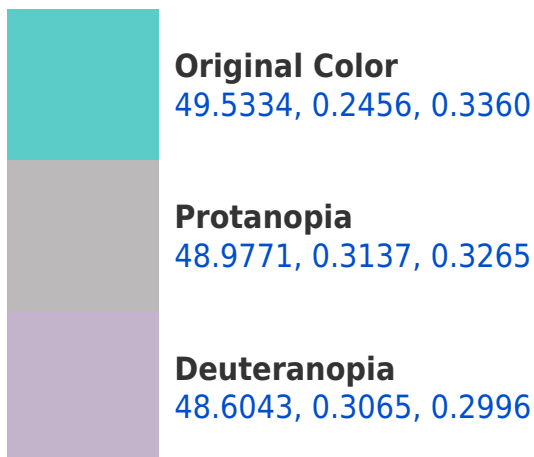


This preview shows how white text looks on a background with the Yxy color 49.5334, 0.2456, 0.3360.

# 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

49.3797, 0.2388, 0.3067

# Trichromacy



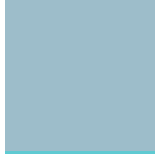
## Original Color

49.5334, 0.2456, 0.3360



## Protanomaly

48.2332, 0.2834, 0.3303



## Deuteranomaly

47.8276, 0.2787, 0.3117



## Tritanomaly

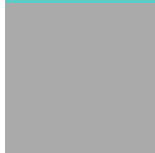
49.3271, 0.2413, 0.3176

# Monochromacy



## Original Color

49.5334, 0.2456, 0.3360



## Achromatopsia

40.1978, 0.3127, 0.3290



## Achromatomaly

42.4548, 0.2805, 0.3303

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.5334, 0.2456, 0.3360 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(91, 204, 199)` looks like.

```
.text, #text, p{  
    color:rgb(91, 204, 199)  
}
```

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(91, 204, 199) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(91, 204, 199) }
```

## Border

The CSS property to change the border of an element to Yxy 49.5334, 0.2456, 0.3360 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(91, 204, 199) }
```

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

```
.border{ border-color:rgb(91, 204, 199) }
```

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

Here you see how a box with a 4 pixel rgb(91, 204, 199) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(91, 204, 199); -webkit-box-  
shadow:4px 4px 4px 4px rgb(91, 204, 199);  
box-shadow:4px 4px 4px 4px rgb(91, 204,  
199) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.5334, 0.2456, 0.3360 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(91, 204, 199) }
```

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

```
.background{ background-color: rgb(91, 204,  
199) }
```

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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