

# Converting Colors

$Y_{xy}(49.8157, 0.2533, 0.3203)$

Have a look what the booklet for  
Yxy(49.8157, 0.2533, 0.3203)  
contains.

<b>Yxy(49.6651, 0.2531, 0.3192)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(49.6651, 0.2531, 0.3192)**

# Conversions

## Conversions Part 1

Format	Color
Hex	76C8CF
RGB	118, 200, 207
RGB Percent	46%, 78%, 81%
CMY	0.5376, 0.2156, 0.1882
CMYK	0.43, 0.03, 0.00, 0.19
HSL	185°, 48%, 64%
HSV	185°, 43%, 81%
XYZ	39.3804, 49.6651, 66.5469
YIQ	176.2800, -51.1190, -15.2070

# Conversions

## Conversions Part 2

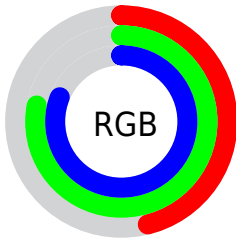
Format	Color
R <sub>YB</sub>	118, 161, 207
Decimal	7784655
CIE Lab	75.86, -23.21, -11.34
CIE LCh	76, 25.836, 206.042
Yxy	49.6651, 0.2531, 0.3192
Android (android.graphics.Color)	4285974735 (0xFF76C8CF)
YUV	176.2800, 15.1450, -51.1116
Hunter-Lab	70.4735, -23.5831, -6.6551

# Details

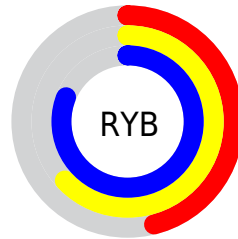
The Yxy color **49.6651, 0.2531, 0.3192** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **29.2187, 0.4205, 0.3382**, and the grayscale version is **43.5012, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.8540, 0.2676, 0.3289**, and **23.8498, 0.2375, 0.3155** is the 20% darker color. If you saturate the color by 10%, you get **47.6256, 0.2426, 0.3166**, and if you desaturate by 10%, it is **52.0343, 0.2651, 0.3217**.

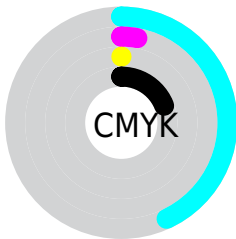
# Distribution



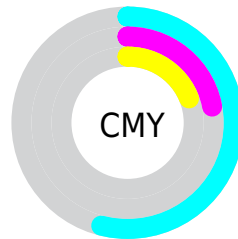
- Red (46%)
- Green (78%)
- Blue (81%)



- Red (46%)
- Yellow (63%)
- Blue (81%)



- Cyan (43%)
- Magenta (3%)
- Yellow (0%)
- Black (19%)




- Cyan (54%)
- Magenta (22%)
- Yellow (19%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.6651, 0.2531, 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 49.6651, 0.2531, 0.3192 by changing the saturation by 10% instead.




 49.6651, 0.2531,  
0.3192


 49.6651, 0.2531,  
0.3192


385.3548, 0.2820,  
0.3247

 35.1474, 0.2462,  
0.3177


 89.6785, 0.2634,  
0.3213

 23.7764, 0.2375,  
0.3156

 115.9429, 0.2673,  
0.3221

 15.1679, 0.2262,  
0.3127


 146.8917, 0.2707,  
0.3227

 8.9373, 0.2110,  
0.3084

182.9092, 0.2735,  
0.3232

 4.7003, 0.1896,  
0.3016

224.3799, 0.2761,  
0.3237

 2.0725, 0.1577,  
0.2892

271.6882, 0.2783,

 0.6491, 0.0218,

0.3241

0.2817

325.2183, 0.2802,  
0.3244

0.0000, 0.0000,  
0.0000

49.6651, 0.2531,  
0.3192

49.6651, 0.2531,  
0.3192

47.6256, 0.2426,  
0.3166

52.0343, 0.2651,  
0.3217

45.8891, 0.2339,  
0.3139

54.7467, 0.2785,  
0.3241

44.4339, 0.2272,  
0.3112


57.8218, 0.2929,  
0.3263

43.2327, 0.2223,  
0.3085

61.2761, 0.3080,  
0.3284


42.2530, 0.2192,  
0.3059


65.1249, 0.3236,  
0.3303

 41.6615, 0.2178,  
0.3041

 69.3827, 0.3393,  
0.3320

 72.5483, 0.3490,  
0.3336

 73.3618, 0.3487,  
0.3352

 74.1835, 0.3484,  
0.3369

# Harmonies

## Analogous

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



49.6651, 0.2745, 0.3535



49.6651, 0.2531, 0.3192



49.6651, 0.2469, 0.2904

# Triad

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



49.6651, 0.2531, 0.3192



49.6651, 0.3156, 0.2835



49.6651, 0.3702, 0.3843

# Complementary

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



49.6651, 0.2531, 0.3192



29.2187, 0.4205, 0.3382

# 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.



49.6651, 0.3831, 0.3620



49.6651, 0.2531, 0.3192



49.6651, 0.3507, 0.3054

# Square

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



49.6651, 0.2531, 0.3192



49.6651, 0.2814, 0.2721



49.6651, 0.3760, 0.3335



49.6651, 0.3419, 0.3925



# Rectangle

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



49.6651, 0.2531, 0.3192



49.6651, 0.2519, 0.2779



49.6651, 0.3760, 0.3335



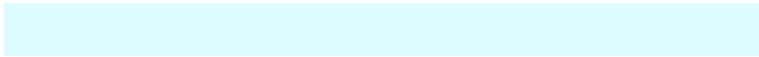
49.6651, 0.3765, 0.3780

# Sweetspot

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



49.6670, 0.2531, 0.3192



92.5967, 0.2927, 0.3263



49.9276, 0.3030, 0.4529



19.5732, 0.2894, 0.3258



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.



49.6670, 0.2531, 0.3192



76.4441, 0.2430, 0.3167



32.3055, 0.2424, 0.2551



13.2416, 0.2983, 0.3271



26.3103, 0.2179, 0.3044



1.5193, 0.2193, 0.3093



# Inverse Universe

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



30.3760, 0.3247, 0.2314



41.8451, 0.3279, 0.2122



42.7276, 0.3956, 0.3924



11.9924, 0.3150, 0.3079



10.7273, 0.3415, 0.1655

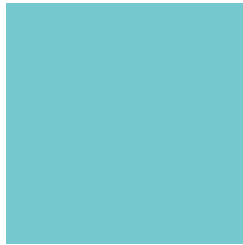


0.6047, 0.3373, 0.1632



# Previews

## White Background



This preview shows how the Yxy color 49.6651, 0.2531, 0.3192 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

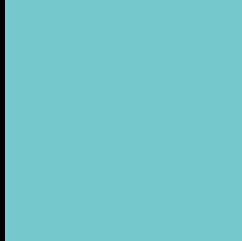
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.6651, 0.2531, 0.3192 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

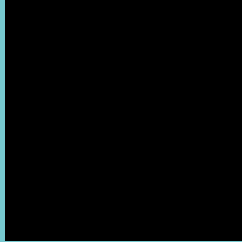
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 49.6651, 0.2531, 0.3192**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.6651, 0.2531, 0.3192.



This preview shows how white text looks on a background with the Yxy color 49.6651, 0.2531, 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



### Original Color

49.6651, 0.2531, 0.3192

### Protanopia

49.2142, 0.3036, 0.3126

### Deuteranopia

48.9574, 0.2988, 0.2924



## Tritanopia

49.7462, 0.2497, 0.3072

# Trichromacy



**Original Color**

49.6651, 0.2531, 0.3192

**Protanomaly**

48.6210, 0.2823, 0.3145

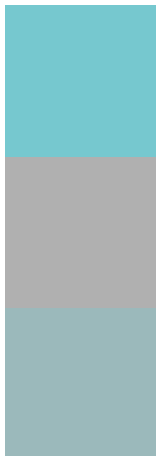
**Deuteranomaly**

48.6189, 0.2791, 0.3006

**Tritanomaly**

49.5223, 0.2508, 0.3111

# Monochromacy



**Original Color**

49.6651, 0.2531, 0.3192

**Achromatopsia**

43.4154, 0.3127, 0.3290

**Achromatomaly**

45.2543, 0.2871, 0.3262

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.6651, 0.2531, 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(118, 200, 207)` looks like.

```
.text, #text, p{  
    color:rgb(118, 200, 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(118, 200, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 200, 207) }
```

## Border

The CSS property to change the border of an element to Yxy 49.6651, 0.2531, 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(118, 200, 207) }
```

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

```
.border{ border-color:rgb(118, 200, 207) }
```

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

Here you see how a box with a 4 pixel `rgb(118, 200, 207)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(118, 200, 207); -webkit-box-shadow:4px 4px 4px 4px rgb(118, 200, 207); box-shadow:4px 4px 4px 4px rgb(118, 200, 207) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.6651, 0.2531, 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(118, 200, 207) }
```

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

```
.background{ background-color: rgb(118,  
200, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor