

# Converting Colors

$Y_{xy}(39.7326, 0.2309, 0.2938)$

Have a look what the booklet for  
Yxy(39.7326, 0.2309, 0.2938)  
contains.

<b>Yxy(39.6176, 0.2306, 0.2930)</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(39.6176, 0.2306, 0.2930)**

# Conversions

## Conversions Part 1

Format	Color
Hex	50B6CE
RGB	80, 182, 206
RGB Percent	31%, 71%, 81%
CMY	0.6862, 0.2863, 0.1920
CMYK	0.61, 0.12, 0.00, 0.19
HSL	191°, 56%, 56%
HSV	191°, 61%, 81%
XYZ	31.1803, 39.6176, 64.4158
YIQ	154.2380, -68.4960, -14.1600

# Conversions

## Conversions Part 2

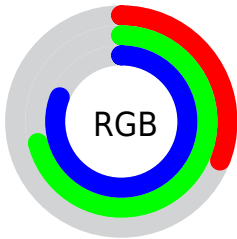
Format	Color
R <sub>Y</sub> B	80, 136, 206
Decimal	5289678
CIE Lab	69.20, -22.39, -21.01
CIE LCh	69, 30.698, 223.179
Yxy	39.6176, 0.2306, 0.2930
Android (android.graphics.Color)	4283479758 (0xFF50B6CE)
YUV	154.2380, 25.5187, -65.1067
Hunter-Lab	62.9425, -21.7246, -16.6180

# Details

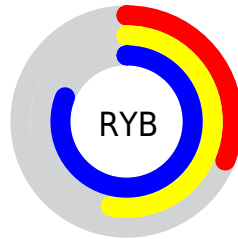
The Yxy color **39.6176, 0.2306, 0.2930** is a light color, and the websafe version is hex **66CCCC**. The color can be described as light muted azure. A complement of this color would be **23.6161, 0.4832, 0.3581**, and the grayscale version is **32.3359, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.0318, 0.2490, 0.3092**, and **17.9675, 0.2114, 0.2810** is the 20% darker color. If you saturate the color by 10%, you get **37.2684, 0.2219, 0.2861**, and if you desaturate by 10%, it is **42.2898, 0.2411, 0.2997**.

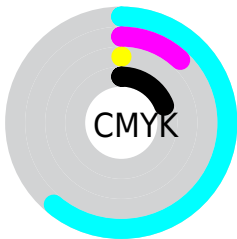
# Distribution



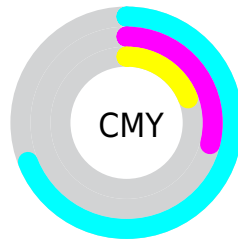
- Red (31%)
- Green (71%)
- Blue (81%)



- Red (31%)
- Yellow (53%)
- Blue (81%)



- Cyan (61%)
- Magenta (12%)
- Yellow (0%)
- Black (19%)




- Cyan (69%)
- Magenta (29%)
- Yellow (19%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.6176, 0.2306, 0.2930 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 39.6176, 0.2306, 0.2930 by changing the saturation by 10% instead.





 39.6176, 0.2306,  
0.2930


 39.6176, 0.2306,  
0.2930

344.5092, 0.2713,  
0.3124

 27.2405, 0.2207,  
0.2877

 74.5809, 0.2453,  
0.3004

 17.7539, 0.2080,  
0.2808


 97.9358, 0.2508,  
0.3031

 10.7735, 0.1916,  
0.2712


 125.7189, 0.2555,  
0.3053

 5.9147, 0.1695,  
0.2573

 158.3144, 0.2596,  
0.3072

 2.7933, 0.1387,  
0.2356

196.1068, 0.2631,  
0.3088

 1.0248, 0.0828,  
0.2014

239.4805, 0.2662,

 0.0000, 0.0000,

0.3102

0.0000

288.8198, 0.2689,  
0.3114

■ 39.6176, 0.2306,  
0.2930

■ 39.6176, 0.2306,  
0.2930

■ 37.2684, 0.2219,  
0.2861

■ 42.2898, 0.2411,  
0.2997

■ 35.2114, 0.2152,  
0.2792

■ 45.3037, 0.2531,  
0.3062

■ 33.4167, 0.2103,  
0.2723

■ 48.6816, 0.2664,  
0.3124

■ 31.9994, 0.2073,  
0.2662

■ 52.4423, 0.2807,  
0.3182

■ 56.6035, 0.2956,  
0.3236

■ 61.1815, 0.3109,  
0.3285

■ 66.1916, 0.3263,  
0.3329

■ 71.6483, 0.3415,  
0.3368

■ 75.5307, 0.3486,  
0.3406

# Harmonies

## Analogous

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



39.6176, 0.2465, 0.3346



39.6176, 0.2306, 0.2930



39.6176, 0.2346, 0.2656

# Triad

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



39.6176, 0.2306, 0.2930



39.6176, 0.3425, 0.2860



39.6176, 0.3666, 0.4086

# Complementary

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



39.6176, 0.2306, 0.2930



23.6161, 0.4832, 0.3581

# 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.



39.6176, 0.3960, 0.3878



39.6176, 0.2306, 0.2930



39.6176, 0.3825, 0.3182

# Square

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



39.6176, 0.2306, 0.2930



39.6176, 0.2964, 0.2639



39.6176, 0.4025, 0.3546



39.6176, 0.3238, 0.4066



# Rectangle

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



39.6176, 0.2306, 0.2930



39.6176, 0.2480, 0.2573



39.6176, 0.4025, 0.3546



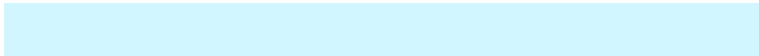
39.6176, 0.3784, 0.4037

# Sweetspot

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



39.6191, 0.2306, 0.2930



86.8512, 0.2850, 0.3198



46.8458, 0.2927, 0.4925



18.1795, 0.2807, 0.3182



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.



39.6191, 0.2306, 0.2930



59.4030, 0.2199, 0.2842



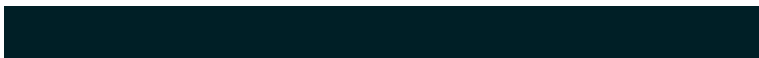
19.5776, 0.2078, 0.1923



12.3492, 0.2983, 0.3245



19.8325, 0.2076, 0.2673



1.1192, 0.2113, 0.2806



# Inverse Universe

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



22.2431, 0.3482, 0.2106



30.6386, 0.3577, 0.1949



41.0242, 0.4272, 0.4320



11.3656, 0.3166, 0.3104



9.8051, 0.3754, 0.1842



0.5155, 0.3629, 0.1773



# Previews

## White Background



This preview shows how the Yxy color 39.6176, 0.2306, 0.2930 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

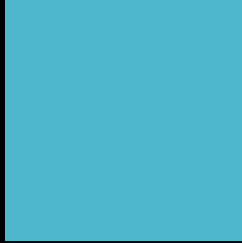
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 39.6176, 0.2306, 0.2930 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

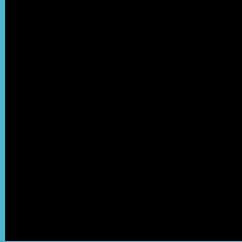
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 39.6176, 0.2306, 0.2930**

## **Background**



This preview shows how black text looks on a background with the Yxy color 39.6176, 0.2306, 0.2930.



This preview shows how white text looks on a background with the Yxy color 39.6176, 0.2306, 0.2930.

# 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

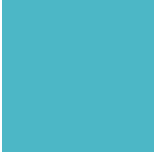
39.6176, 0.2306, 0.2930

### Protanopia

38.9393, 0.2849, 0.2881

### Deuteranopia

39.3499, 0.2753, 0.2695



## **Tritanopia**

39.4807, 0.2333, 0.3059

# Trichromacy



## Original Color

39.6176, 0.2306, 0.2930



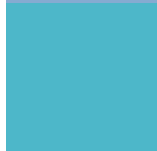
## Protanomaly

38.5807, 0.2598, 0.2889



## Deuteranomaly

38.7158, 0.2546, 0.2758



## Tritanomaly

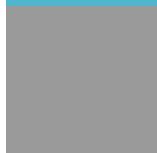
39.6618, 0.2322, 0.3016

# Monochromacy



## Original Color

39.6176, 0.2306, 0.2930



## Achromatopsia

32.3143, 0.3127, 0.3290



## Achromatomaly

34.0801, 0.2733, 0.3150

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.6176, 0.2306, 0.2930 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(80, 182, 206)` looks like.

```
.text, #text, p{  
  color:rgb(80, 182, 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(80, 182, 206) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 182, 206) }
```

## Border

The CSS property to change the border of an element to Yxy 39.6176, 0.2306, 0.2930 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(80, 182, 206) }
```

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

```
.border{ border-color:rgb(80, 182, 206) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 182, 206)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 182, 206); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 182, 206);  
box-shadow:4px 4px 4px 4px rgb(80, 182,  
206) }
```



# Background

The CSS property to change the background color of an element to Yxy 39.6176, 0.2306, 0.2930 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 182, 206) }
```

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

```
.background{ background-color: rgb(80, 182,  
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](#).

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