

# Converting Colors

$Y_{xy}(56.1380, 0.2315, 0.3092)$

Have a look what the booklet for  
Yxy(56.1380, 0.2315, 0.3092)  
contains.

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# Color

**Yxy(56.0634, 0.2313, 0.3089)**

# Conversions

## Conversions Part 1

Format	Color
Hex	51D7E6
RGB	81, 215, 230
RGB Percent	32%, 84%, 90%
CMY	0.6820, 0.1569, 0.0981
CMYK	0.65, 0.07, 0.00, 0.10
HSL	186°, 75%, 61%
HSV	186°, 65%, 90%
XYZ	41.9795, 56.0634, 83.4508
YIQ	176.6440, -84.6790, -23.7430

# Conversions

## Conversions Part 2

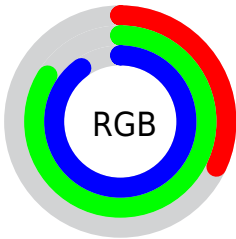
<b>Format</b>	<b>Color</b>
<b>RYB</b>	81, 152, 230
Decimal	5363686
CIELab	79.65, -31.51, -18.12
CIELCh	80, 36.345, 209.897
Yxy	56.0634, 0.2313, 0.3089
Android (android.graphics.Color)	4283553766 (0xFF51D7E6)
YUV	176.6440, 26.3045, -83.8798
Hunter-Lab	74.8755, -30.9548, -13.6675

# Details

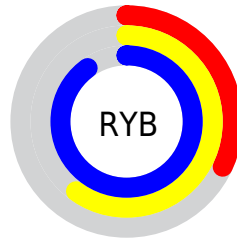
The Yxy color **56.0634, 0.2313, 0.3089** is a light color, and the websafe version is hex **66CCCC**. The color can be described as light muted cyan. A complement of this color would be **25.7939, 0.5117, 0.3446**, and the grayscale version is **43.6772, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.8510, 0.2545, 0.3288**, and **28.1976, 0.2177, 0.3038** is the 20% darker color. If you saturate the color by 10%, you get **54.0445, 0.2246, 0.3054**, and if you desaturate by 10%, it is **58.4471, 0.2399, 0.3124**.

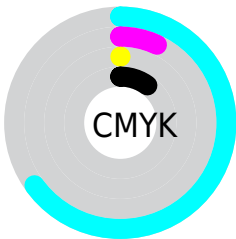
# Distribution



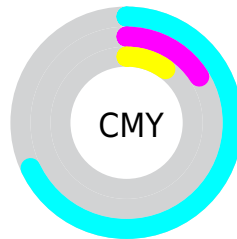
- Red (32%)
- Green (84%)
- Blue (90%)



- Red (32%)
- Yellow (60%)
- Blue (90%)



- Cyan (65%)
- Magenta (7%)
- Yellow (0%)
- Black (10%)




- Cyan (68%)
- Magenta (16%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 56.0634, 0.2313, 0.3089 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 56.0634, 0.2313, 0.3089 by changing the saturation by 10% instead.



 56.0634, 0.2313,  
0.3089


 56.0634, 0.2313,  
0.3089


409.9304, 0.2695,  
0.3198


 40.2538, 0.2225,  
0.3060


 99.0973, 0.2446,  
0.3130

 27.7365, 0.2117,  
0.3022


 127.0903, 0.2497,  
0.3145

 18.1271, 0.1981,  
0.2970


 159.9132, 0.2542,  
0.3158

 11.0413, 0.1805,  
0.2897

 197.9505, 0.2580,  
0.3168

 6.0946, 0.1568,  
0.2785

241.5864, 0.2614,  
0.3177

 2.9027, 0.1243,  
0.2604

291.2054, 0.2644,

 1.0811, 0.0532,

0.3185

0.2338

347.1920, 0.2671,  
0.3192

■ 0.0000, 0.0000,  
0.0000

■ 56.0634, 0.2313,  
0.3089

■ 56.0634, 0.2313,  
0.3089

■ 54.0445, 0.2246,  
0.3054

■ 58.4471, 0.2399,  
0.3124

■ 52.3478, 0.2198,  
0.3019

■ 61.2208, 0.2504,  
0.3158

■ 50.9309, 0.2168,  
0.2984

■ 64.4143, 0.2624,  
0.3191

■ 50.2599, 0.2157,  
0.2966

■ 68.0528, 0.2758,  
0.3222

■ 72.1596, 0.2902,  
0.3251

■ 76.7561, 0.3054,  
0.3278

■ 81.8626, 0.3210,  
0.3303

■ 85.5355, 0.3297,  
0.3325

■ 86.8577, 0.3294,  
0.3348

# Harmonies

## Analogous

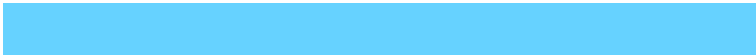
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



56.0634, 0.2566, 0.3561



56.0634, 0.2313, 0.3089



56.0634, 0.2263, 0.2726

# Triad

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



56.0634, 0.2313, 0.3089



56.0634, 0.3223, 0.2720



56.0634, 0.3855, 0.4054

# Complementary

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



56.0634, 0.2313, 0.3089



25.7939, 0.5117, 0.3446

# 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.



56.0634, 0.4069, 0.3760



56.0634, 0.2313, 0.3089



56.0634, 0.3695, 0.3017

# Square

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



56.0634, 0.2313, 0.3089



56.0634, 0.2758, 0.2550



56.0634, 0.4014, 0.3386



56.0634, 0.3451, 0.4155

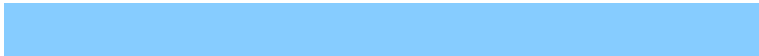


# Rectangle

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



56.0634, 0.2313, 0.3089



56.0634, 0.2344, 0.2584



56.0634, 0.4014, 0.3386



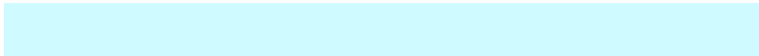
56.0634, 0.3953, 0.3971

# Sweetspot

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



56.0655, 0.2313, 0.3089



88.8705, 0.2838, 0.3239



59.1768, 0.2973, 0.5205



18.7054, 0.2797, 0.3230



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

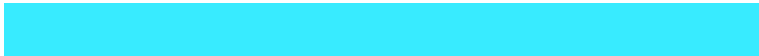


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



56.0655, 0.2313, 0.3089



67.4762, 0.2226, 0.3041



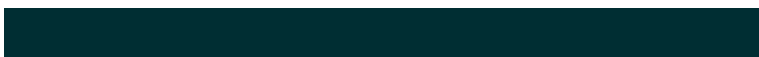
26.4123, 0.2056, 0.2000



16.0755, 0.2982, 0.3266



28.5654, 0.2159, 0.2972



2.1829, 0.2173, 0.3022



# Inverse Universe

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



27.6248, 0.3356, 0.1938



30.0958, 0.3409, 0.1780



46.3231, 0.4453, 0.4247



14.5889, 0.3153, 0.3081



12.0814, 0.3479, 0.1690

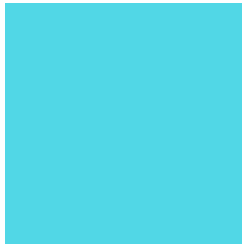


0.9000, 0.3435, 0.1666



# Previews

## White Background



This preview shows how the Yxy color 56.0634, 0.2313, 0.3089 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

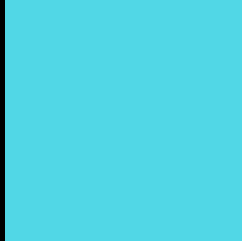
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 56.0634, 0.2313, 0.3089 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

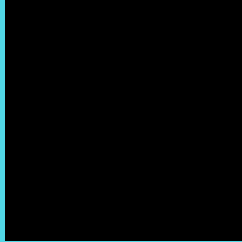
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 56.0634, 0.2313, 0.3089**

## **Background**



This preview shows how black text looks on a background with the Yxy color 56.0634, 0.2313, 0.3089.



This preview shows how white text looks on a background with the Yxy color 56.0634, 0.2313, 0.3089.

# 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

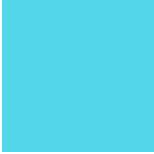
56.0634, 0.2313, 0.3089

### Protanopia

55.3774, 0.2954, 0.3028

### Deuteranopia

55.4332, 0.2854, 0.2795



## **Tritanopia**

56.2209, 0.2307, 0.3063

# Trichromacy



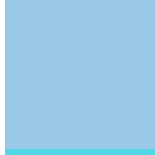
## Original Color

56.0634, 0.2313, 0.3089



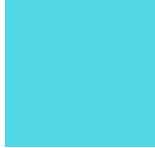
## Protanomaly

54.1904, 0.2647, 0.3036



## Deuteranomaly

54.0618, 0.2594, 0.2880



## Tritanomaly

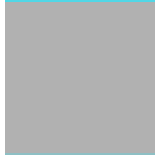
56.1642, 0.2311, 0.3076

# Monochromacy



## Original Color

56.0634, 0.2313, 0.3089



## Achromatopsia

43.9657, 0.3127, 0.3290



## Achromatomaly

46.9979, 0.2724, 0.3220

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 56.0634, 0.2313, 0.3089 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(81, 215, 230)` looks like.

```
.text, #text, p{  
    color:rgb(81, 215, 230)  
}
```

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(81, 215, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 215, 230) }
```

## Border

The CSS property to change the border of an element to Yxy 56.0634, 0.2313, 0.3089 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(81, 215, 230) }
```

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

```
.border{ border-color:rgb(81, 215, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(81, 215, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 215, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(81, 215, 230);  
box-shadow:4px 4px 4px 4px rgb(81, 215,  
230) }
```



# Background

The CSS property to change the background color of an element to Yxy 56.0634, 0.2313, 0.3089 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 215, 230) }
```

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

```
.background{ background-color: rgb(81, 215,  
230) }
```

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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