

# Converting Colors

$Y_{xy}(56.6096, 0.2871, 0.3178)$

Have a look what the booklet for  
Yxy(56.6096, 0.2871, 0.3178)  
contains.

<b>Yxy(56.6954, 0.2867, 0.3178)</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(56.6954, 0.2867, 0.3178)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B0CBD4
RGB	176, 203, 212
RGB Percent	69%, 80%, 83%
CMY	0.3098, 0.2039, 0.1685
CMYK	0.17, 0.04, 0.00, 0.17
HSL	195°, 30%, 76%
HSV	195°, 17%, 83%
XYZ	51.1472, 56.6954, 70.5571
YIQ	195.9530, -18.9810, -2.9250

# Conversions

## Conversions Part 2

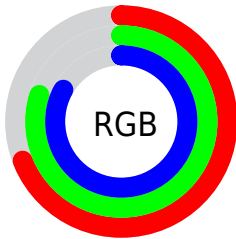
Format	Color
<b>R<sub>YB</sub></b>	176, 191, 212
Decimal	11586516
CIE <sub>Lab</sub>	80.01, -7.14, -7.54
CIE <sub>LCh</sub>	80, 10.382, 226.573
Yxy	56.6954, 0.2867, 0.3178
Android (android.graphics.Color)	4289776596 (0xFFB0CBD4)
YUV	195.9530, 7.9112, -17.4988
Hunter-Lab	75.2963, -10.5174, -2.8507

# Details

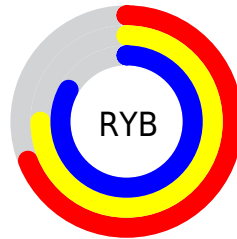
The Yxy color **56.6954, 0.2867, 0.3178** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **51.8491, 0.3432, 0.3399**, and the grayscale version is **55.1347, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.8958, 0.2987, 0.3290**, and **28.1402, 0.2804, 0.3156** is the 20% darker color. If you saturate the color by 10%, you get **51.9482, 0.2718, 0.3104**, and if you desaturate by 10%, it is **61.9194, 0.3020, 0.3246**.

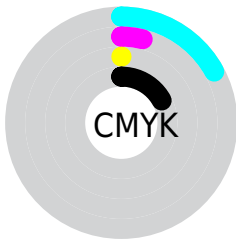
# Distribution



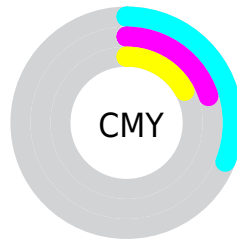
- Red (69%)
- Green (80%)
- Blue (83%)



- Red (69%)
- Yellow (75%)
- Blue (83%)



- Cyan (17%)
- Magenta (4%)
- Yellow (0%)
- Black (17%)



- Cyan (31%)
- Magenta (20%)
- Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 56.6954, 0.2867, 0.3178 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 56.6954, 0.2867, 0.3178 by changing the saturation by 10% instead.



■ 56.6954, 0.2867,  
0.3178

■ 56.6954, 0.2867,  
0.3178

412.3070, 0.2992,  
0.3233

■ 40.7607, 0.2837,  
0.3164

■ 100.0206, 0.2911,  
0.3198

■ 28.1322, 0.2800,  
0.3147

128.1799, 0.2928,  
0.3205

■ 18.4253, 0.2752,  
0.3124

161.1829, 0.2943,  
0.3212

■ 11.2558, 0.2687,  
0.3093

199.4140, 0.2955,  
0.3217

■ 6.2391, 0.2595,  
0.3048

243.2576, 0.2966,  
0.3222

■ 2.9910, 0.2456,  
0.2975

293.0980, 0.2976,

■ 1.1271, 0.2219,

0.3226

0.2844

349.3196, 0.2984,  
0.3230

0.0009, 0.0000,  
0.0017

0.0000, 0.0000,  
0.0000

56.6954, 0.2867,  
0.3178

56.6954, 0.2867,  
0.3178

51.9482, 0.2718,  
0.3104

61.9194, 0.3020,  
0.3246

47.6520, 0.2575,  
0.3023

67.6308, 0.3173,  
0.3308

43.7891, 0.2442,  
0.2938

73.8484, 0.3325,  
0.3363

40.3376, 0.2323,  
0.2849

79.4685, 0.3431,  
0.3414

■ 37.2733, 0.2220,  
0.2757

■ 82.3751, 0.3422,  
0.3467

■ 34.5689, 0.2136,  
0.2663

■ 85.3719, 0.3413,  
0.3519

■ 32.1927, 0.2071,  
0.2569

■ 88.4597, 0.3405,  
0.3571

■ 30.1031, 0.2026,  
0.2477

■ 91.6392, 0.3396,  
0.3621

■ 29.5095, 0.2014,  
0.2449

■ 94.9112, 0.3388,  
0.3672

# Harmonies

## Analogous

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



56.6954, 0.2914, 0.3298



56.6954, 0.2867, 0.3178



56.6954, 0.2888, 0.3092

# Triad

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



56.6954, 0.2867, 0.3178



56.6954, 0.3235, 0.3166



56.6954, 0.3282, 0.3528

# Complementary

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



56.6954, 0.2867, 0.3178



51.8491, 0.3432, 0.3399

# 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.



56.6954, 0.3372, 0.3486



56.6954, 0.2867, 0.3178



56.6954, 0.3344, 0.3276

# Square

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



56.6954, 0.2867, 0.3178



56.6954, 0.3098, 0.3087



56.6954, 0.3395, 0.3393



56.6954, 0.3152, 0.3505



# Rectangle

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



56.6954, 0.2867, 0.3178



56.6954, 0.2937, 0.3064



56.6954, 0.3395, 0.3393



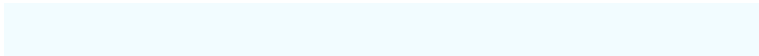
56.6954, 0.3318, 0.3521

# Sweetspot

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



56.6977, 0.2867, 0.3178



95.6390, 0.3050, 0.3259



59.8377, 0.3046, 0.3630



20.3428, 0.3039, 0.3254



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

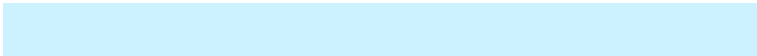


# Same Dimension

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



56.6977, 0.2867, 0.3178



83.6893, 0.2818, 0.3155



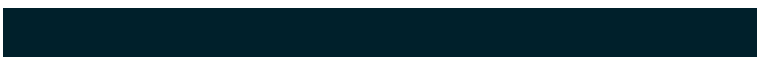
48.6871, 0.2856, 0.2950



13.5560, 0.2982, 0.3230



18.3776, 0.2017, 0.2462



1.2362, 0.2062, 0.2622



# Inverse Universe

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



49.3649, 0.3220, 0.2973



70.8694, 0.3241, 0.2911



59.8611, 0.3398, 0.3609



12.5770, 0.3176, 0.3117



10.2001, 0.3960, 0.1955



0.6281, 0.3803, 0.1869



# Previews

## White Background



This preview shows how the Yxy color 56.6954, 0.2867, 0.3178 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

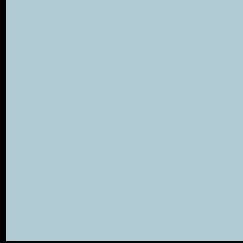
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 56.6954, 0.2867, 0.3178 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

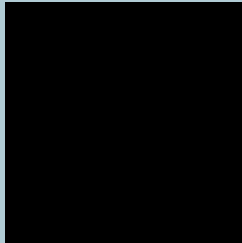
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

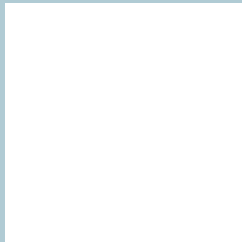
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 56.6954, 0.2867, 0.3178**

## **Background**



This preview shows how black text looks on a background with the Yxy color 56.6954, 0.2867, 0.3178.



This preview shows how white text looks on a background with the Yxy color 56.6954, 0.2867, 0.3178.

# 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

56.6954, 0.2867, 0.3178

### Protanopia

56.6287, 0.3063, 0.3159

### Deuteranopia

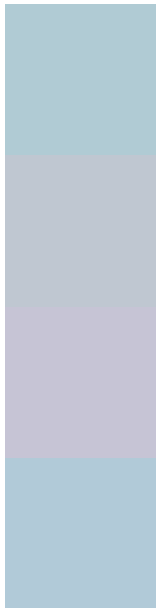
56.2560, 0.3107, 0.3037



## Tritanopia

56.6501, 0.2835, 0.3094

# Trichromacy



## Original Color

56.6954, 0.2867, 0.3178

## Protanomaly

56.5267, 0.2995, 0.3169

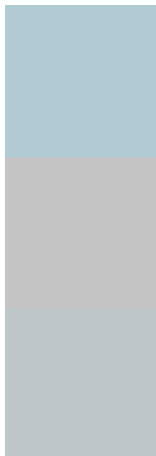
## Deuteranomaly

56.2897, 0.3020, 0.3089

## Tritanomaly

56.5460, 0.2848, 0.3118

# Monochromacy



## Original Color

56.6954, 0.2867, 0.3178

## Achromatopsia

55.2011, 0.3127, 0.3290

## Achromatomaly

55.9299, 0.3029, 0.3253

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 56.6954, 0.2867, 0.3178 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(176, 203, 212)` looks like.

```
.text, #text, p{  
    color:rgb(176, 203, 212)  
}
```

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(176, 203, 212) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 203, 212) }
```

## Border

The CSS property to change the border of an element to Yxy 56.6954, 0.2867, 0.3178 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(176, 203, 212) }
```

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

```
.border{ border-color:rgb(176, 203, 212) }
```

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

Here you see how a box with a 4 pixel `rgb(176, 203, 212)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(176, 203, 212); -webkit-box-shadow:4px 4px 4px 4px rgb(176, 203, 212); box-shadow:4px 4px 4px 4px rgb(176, 203, 212) }
```



# Background

The CSS property to change the background color of an element to Yxy 56.6954, 0.2867, 0.3178 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 203, 212) }
```

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

```
.background{ background-color: rgb(176,  
203, 212) }
```

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