

# Converting Colors

$Y_{xy}(38.0880, 0.2756, 0.3214)$

Have a look what the booklet for  
Yxy(38.0880, 0.2756, 0.3214)  
contains.

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# Color

**Yxy(38.0880, 0.2756, 0.3214)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85ADB2
RGB	133, 173, 178
RGB Percent	52%, 68%, 70%
CMY	0.4782, 0.3216, 0.3019
CMYK	0.25, 0.03, 0.00, 0.30
HSL	187°, 23%, 61%
HSV	187°, 25%, 70%
XYZ	32.6604, 38.0880, 47.7581
YIQ	161.6100, -25.4450, -6.9250

# Conversions

## Conversions Part 2

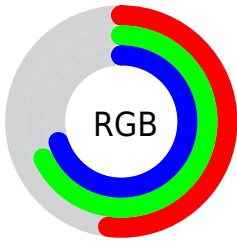
<b>Format</b>	<b>Color</b>
<b>RYB</b>	133, 154, 178
Decimal	8760754
CIELab	68.09, -12.23, -6.98
CIELCh	68, 14.079, 209.738
Yxy	38.0880, 0.2756, 0.3214
Android (android.graphics.Color)	4286950834 (0xFF85ADB2)
YUV	161.6100, 8.0803, -25.0910
Hunter-Lab	61.7155, -13.5382, -2.6804

# Details

The Yxy color **38.0880, 0.2756, 0.3214** is a light color, and the websafe version is hex **669999**. A complement of this color would be **29.3644, 0.3632, 0.3365**, and the grayscale version is **35.9161, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.9921, 0.2823, 0.3221**, and **16.9493, 0.2650, 0.3204** is the 20% darker color. If you saturate the color by 10%, you get **36.0027, 0.2624, 0.3180**, and if you desaturate by 10%, it is **40.4334, 0.2898, 0.3246**.

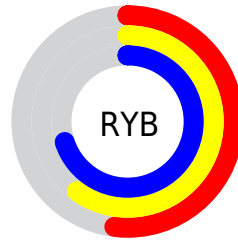
# Distribution



Red (52%)

Green (68%)

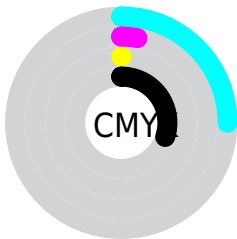
Blue (70%)



Red (52%)

Yellow (60%)

Blue (70%)

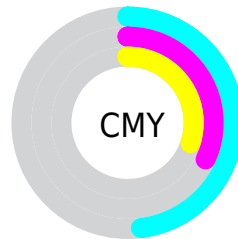


Cyan (25%)

Magenta (3%)

Yellow (0%)

Black (30%)



Cyan (48%)

Magenta (32%)


Yellow (30%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.0880, 0.2756, 0.3214 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 38.0880, 0.2756, 0.3214 by changing the saturation by 10% instead.





 38.0880, 0.2756,  
0.3214

 38.0880, 0.2756,  
0.3214


337.9973, 0.2946,  
0.3256


 26.0510, 0.2707,  
0.3202


 72.2430, 0.2826,  
0.3230

 16.8618, 0.2644,  
0.3186


 95.1298, 0.2852,  
0.3236

 10.1360, 0.2558,  
0.3164


 122.4019, 0.2874,  
0.3241

 5.4892, 0.2436,  
0.3129

154.4439, 0.2892,  
0.3245

 2.5371, 0.2248,  
0.3070

191.6400, 0.2908,  
0.3248

 0.8951, 0.1840,  
0.2983

234.3747, 0.2923,

 0.0000, 0.0000,

0.3251

0.0000

283.0323, 0.2935,  
0.3254

■ 38.0880, 0.2756,  
0.3214

■ 38.0880, 0.2756,  
0.3214

■ 36.0027, 0.2624,  
0.3180

■ 40.4334, 0.2898,  
0.3246

■ 34.1604, 0.2504,  
0.3144

■ 43.0457, 0.3047,  
0.3276

■ 32.5491, 0.2399,  
0.3107

■ 45.9375, 0.3200,  
0.3302

■ 31.1541, 0.2312,  
0.3068

■ 49.1187, 0.3354,  
0.3327

■ 29.9585, 0.2243,  
0.3030

■ 52.5992, 0.3508,  
0.3349

■ 28.9432, 0.2193,  
0.2991

■ 56.3881, 0.3659,  
0.3368

■ 28.0842, 0.2161,  
0.2953

■ 59.9840, 0.3783,  
0.3385

■ 27.7058, 0.2149,  
0.2935

■ 60.8341, 0.3777,  
0.3406

■ 61.6961, 0.3771,  
0.3427

# Harmonies

## Analogous

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



38.0880, 0.2879, 0.3411



38.0880, 0.2756, 0.3214



38.0880, 0.2729, 0.3047

# Triad

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



38.0880, 0.2756, 0.3214



38.0880, 0.3174, 0.3025



38.0880, 0.3455, 0.3633

# Complementary

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



38.0880, 0.2756, 0.3214



29.3644, 0.3632, 0.3365

# 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.



38.0880, 0.3541, 0.3515



38.0880, 0.2756, 0.3214



38.0880, 0.3377, 0.3169

# Square

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



38.0880, 0.2756, 0.3214



38.0880, 0.2965, 0.2946



38.0880, 0.3513, 0.3346



38.0880, 0.3281, 0.3660



# Rectangle

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



38.0880, 0.2756, 0.3214



38.0880, 0.2768, 0.2974



38.0880, 0.3513, 0.3346



38.0880, 0.3496, 0.3602

# Sweetspot

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



38.0895, 0.2756, 0.3214



76.6271, 0.3004, 0.3267



38.6612, 0.3060, 0.3922



16.8174, 0.2981, 0.3263



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290



# Same Dimension

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



38.0895, 0.2756, 0.3214



67.0097, 0.2685, 0.3196



30.3536, 0.2726, 0.2874



9.4660, 0.2986, 0.3264



19.8771, 0.2150, 0.2939



0.6713, 0.2179, 0.3046



# Inverse Universe

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



29.2753, 0.3207, 0.2737



48.5546, 0.3227, 0.2621



36.3157, 0.3558, 0.3673



8.6300, 0.3154, 0.3090



8.5467, 0.3508, 0.1706



0.2735, 0.3414, 0.1655



# Previews

## White Background



This preview shows how the Yxy color 38.0880, 0.2756, 0.3214 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

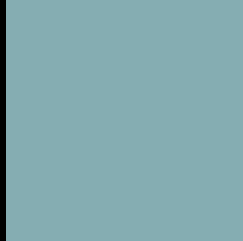
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.0880, 0.2756, 0.3214 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

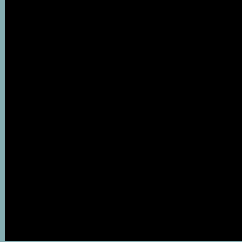
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

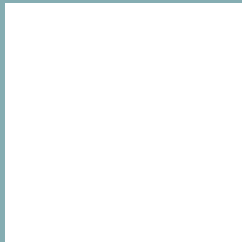
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 38.0880, 0.2756, 0.3214**

## Background



This preview shows how black text looks on a background with the Yxy color 38.0880, 0.2756, 0.3214.

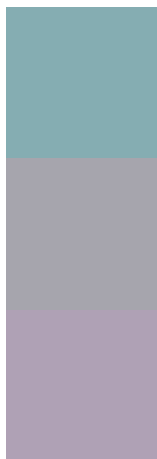


This preview shows how white text looks on a background with the Yxy color 38.0880, 0.2756, 0.3214.

# 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

38.0880, 0.2756, 0.3214

### Protanopia

38.0344, 0.3068, 0.3177

### Deuteranopia

37.9399, 0.3084, 0.3018



## Tritanopia

38.2011, 0.2713, 0.3084

# Trichromacy



## Original Color

38.0880, 0.2756, 0.3214

## Protanomaly

37.9704, 0.2945, 0.3189

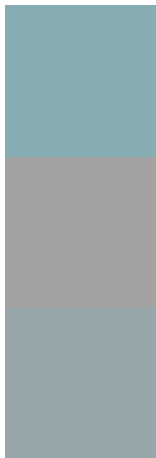
## Deuteranomaly

37.6791, 0.2956, 0.3078

## Tritanomaly

37.9923, 0.2727, 0.3127

# Monochromacy



## Original Color

38.0880, 0.2756, 0.3214

## Achromatopsia

36.1307, 0.3127, 0.3290

## Achromatomaly

36.6789, 0.2975, 0.3260

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.0880, 0.2756, 0.3214 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(133, 173, 178)` looks like.

```
.text, #text, p{  
    color:rgb(133, 173, 178)  
}
```

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(133, 173, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 173, 178) }
```

## Border

The CSS property to change the border of an element to Yxy 38.0880, 0.2756, 0.3214 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(133, 173, 178) }
```

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

```
.border{ border-color:rgb(133, 173, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 173, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 173, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 173, 178);  
box-shadow:4px 4px 4px 4px rgb(133, 173,  
178) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.0880, 0.2756, 0.3214 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 173, 178) }
```

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

```
.background{ background-color: rgb(133,  
173, 178) }
```

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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