

# Converting Colors

$Y_{xy}(40.4166, 0.2711, 0.3140)$

Have a look what the booklet for  
Yxy(40.4166, 0.2711, 0.3140)  
contains.

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# Color

**Yxy(40.2260, 0.2707, 0.3130)**

# Conversions

## Conversions Part 1

Format	Color
Hex	87B1BC
RGB	135, 177, 188
RGB Percent	53%, 69%, 74%
CMY	0.4706, 0.3059, 0.2628
CMYK	0.28, 0.06, 0.00, 0.26
HSL	192°, 28%, 63%
HSV	192°, 28%, 74%
XYZ	34.7897, 40.2260, 53.5019
YIQ	165.6960, -28.5630, -5.4830

# Conversions

## Conversions Part 2

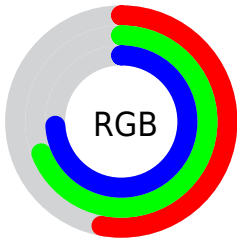
Format	Color
<b>RYB</b>	135, 158, 188
Decimal	8892860
CIELab	69.63, -11.43, -10.18
CIElCh	70, 15.310, 221.692
Yxy	40.2260, 0.2707, 0.3130
Android (android.graphics.Color)	4287082940 (0xFF87B1BC)
YUV	165.6960, 10.9959, -26.9204
Hunter-Lab	63.4240, -13.0800, -5.6178

# Details

The Yxy color  $40.2260, 0.2707, 0.3130$  is a light color, and the websafe version is hex `99CCCC`. A complement of this color would be  $32.9928, 0.3694, 0.3444$ , and the grayscale version is  $37.9356, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $75.6283, 0.2783, 0.3167$ , and  $18.0036, 0.2578, 0.3064$  is the 20% darker color. If you saturate the color by 10%, you get  $37.2857, 0.2570, 0.3064$ , and if you desaturate by 10%, it is  $43.4888, 0.2852, 0.3191$ .

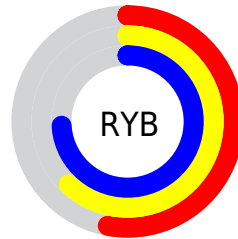
# Distribution



Red (53%)

Green (69%)

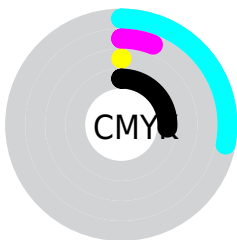
Blue (74%)



Red (53%)

Yellow (62%)

Blue (74%)

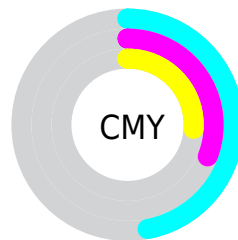


Cyan (28%)

Magenta (6%)

Yellow (0%)

Black (26%)



Cyan (47%)

Magenta (31%)

Yellow (26%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.2260, 0.2707, 0.3130 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 40.2260, 0.2707, 0.3130 by changing the saturation by 10% instead.



■ 40.2260, 0.2707,  
0.3130

■ 40.2260, 0.2707,  
0.3130

■ 347.0752, 0.2919,  
0.3215

■ 27.7148, 0.2653,  
0.3107

■ 75.5075, 0.2785,  
0.3162

■ 18.1108, 0.2584,  
0.3077

■ 99.0467, 0.2814,  
0.3174

■ 11.0296, 0.2492,  
0.3035

■ 127.0305, 0.2838,  
0.3183

■ 6.0867, 0.2362,  
0.2974

■ 159.8436, 0.2859,  
0.3192

■ 2.8979, 0.2166,  
0.2875

■ 197.8702, 0.2877,  
0.3199

■ 1.0787, 0.1835,  
0.2696

■ 241.4947, 0.2893,

■ 0.0000, 0.0000,

0.3205

0.0000

291.1016, 0.2907,  
0.3210

■ 40.2260, 0.2707,  
0.3130

■ 40.2260, 0.2707,  
0.3130

■ 37.2857, 0.2570,  
0.3064

■ 43.4888, 0.2852,  
0.3191

■ 34.6483, 0.2444,  
0.2995

■ 47.0831, 0.3002,  
0.3248

■ 32.2991, 0.2332,  
0.2922

■ 51.0233, 0.3155,  
0.3299

■ 30.2203, 0.2238,  
0.2848

■ 55.3217, 0.3307,  
0.3345

■ 28.3917, 0.2161,  
0.2772

■ 59.9897, 0.3457,  
0.3386

■ 26.7897, 0.2104,  
0.2697

■ 65.0383, 0.3603,  
0.3423

■ 25.3771, 0.2065,  
0.2622

■ 68.2124, 0.3651,  
0.3460

■ 25.1309, 0.2058,  
0.2609

■ 70.0918, 0.3641,  
0.3500

■ 72.0179, 0.3631,  
0.3539

# Harmonies

## Analogous

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



40.2260, 0.2799, 0.3335



40.2260, 0.2707, 0.3130



40.2260, 0.2722, 0.2979

# Triad

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



40.2260, 0.2707, 0.3130



40.2260, 0.3268, 0.3062



40.2260, 0.3412, 0.3681

# Complementary

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



40.2260, 0.2707, 0.3130



32.9928, 0.3694, 0.3444

# 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.



40.2260, 0.3547, 0.3589



40.2260, 0.2707, 0.3130



40.2260, 0.3463, 0.3233

# Square

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



40.2260, 0.2707, 0.3130



40.2260, 0.3039, 0.2947



40.2260, 0.3567, 0.3424



40.2260, 0.3203, 0.3664



# Rectangle

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



40.2260, 0.2707, 0.3130



40.2260, 0.2791, 0.2926



40.2260, 0.3567, 0.3424



40.2260, 0.3467, 0.3662

# Sweetspot

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



40.2276, 0.2707, 0.3130



85.3794, 0.3003, 0.3248



43.1762, 0.3014, 0.3928



18.1402, 0.2980, 0.3240



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290



# Same Dimension

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



40.2276, 0.2707, 0.3130



69.4533, 0.2619, 0.3089



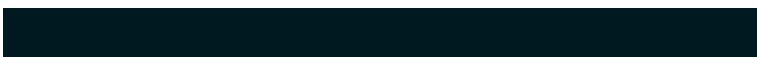
30.8815, 0.2667, 0.2734



10.4645, 0.2985, 0.3241



17.2214, 0.2061, 0.2618



0.7607, 0.2110, 0.2797



# Inverse Universe

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



31.1927, 0.3270, 0.2732



50.6414, 0.3310, 0.2604



41.9801, 0.3600, 0.3789



9.6615, 0.3168, 0.3110



8.7682, 0.3807, 0.1871



0.3522, 0.3638, 0.1778



# Previews

## White Background



This preview shows how the Yxy color 40.2260, 0.2707, 0.3130 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

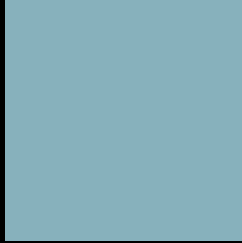
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 40.2260, 0.2707, 0.3130 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

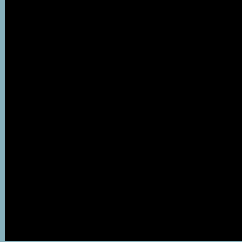
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

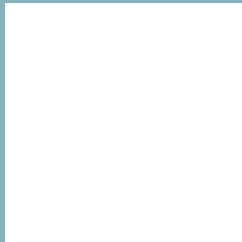
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 40.2260, 0.2707, 0.3130**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.2260, 0.2707, 0.3130.



This preview shows how white text looks on a background with the Yxy color 40.2260, 0.2707, 0.3130.

# 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

40.2260, 0.2707, 0.3130

### Protanopia

39.8592, 0.3011, 0.3085

### Deuteranopia

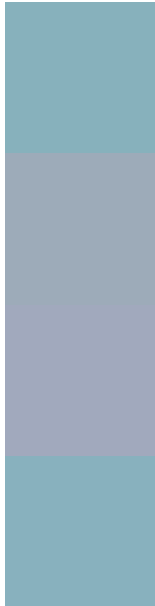
39.8581, 0.3016, 0.2957



## Tritanopia

40.4401, 0.2694, 0.3088

# Trichromacy



## Original Color

40.2260, 0.2707, 0.3130

## Protanomaly

39.7967, 0.2894, 0.3094

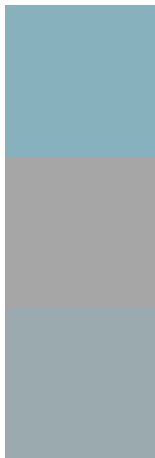
## Deuteranomaly

39.6271, 0.2895, 0.3014

## Tritanomaly

40.3962, 0.2701, 0.3102

# Monochromacy



## Original Color

40.2260, 0.2707, 0.3130

## Achromatopsia

38.1326, 0.3127, 0.3290

## Achromatomaly

38.7740, 0.2962, 0.3232

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.2260, 0.2707, 0.3130 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(135, 177, 188)` looks like.

```
.text, #text, p{  
    color:rgb(135, 177, 188)  
}
```

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(135, 177, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 177, 188) }
```

## Border

The CSS property to change the border of an element to Yxy 40.2260, 0.2707, 0.3130 is called "border". The border property can be set on classes, ids or directly on the HTML element.

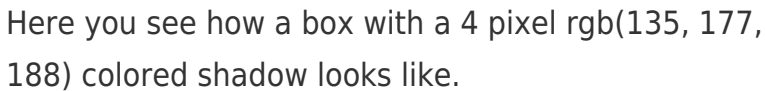
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(135, 177, 188) }
```

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

```
.border{ border-color:rgb(135, 177, 188) }
```

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



Here you see how a box with a 4 pixel rgb(135, 177, 188) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 177, 188); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 177, 188);  
box-shadow:4px 4px 4px 4px rgb(135, 177,  
188) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.2260, 0.2707, 0.3130 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 177, 188) }
```

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

```
.background{ background-color: rgb(135,  
177, 188) }
```

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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