

# Converting Colors

$Y_{xy}(70.0065, 0.2853, 0.3310)$

Have a look what the booklet for  
Yxy(70.0065, 0.2853, 0.3310)  
contains.

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# Color

**Yxy(69.8418, 0.2854, 0.3312)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B7E2E0
RGB	183, 226, 224
RGB Percent	72%, 89%, 88%
CMY	0.2823, 0.1137, 0.1215
CMYK	0.19, 0.00, 0.01, 0.11
HSL	177°, 43%, 80%
HSV	177°, 19%, 89%
XYZ	60.1837, 69.8418, 80.8495
YIQ	212.9150, -24.9860, -9.7380

# Conversions

## Conversions Part 2

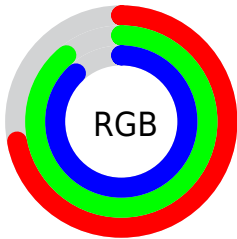
<b>Format</b>	<b>Color</b>
<b>RYB</b>	183, 205, 226
Decimal	12051168
CIELab	86.92, -14.26, -3.66
CIELCh	87, 14.724, 194.394
Yxy	69.8418, 0.2854, 0.3312
Android (android.graphics.Color)	4290241248 (0xFFB7E2E0)
YUV	212.9150, 5.4649, -26.2355
Hunter-Lab	83.5714, -17.7037, 1.1411

# Details

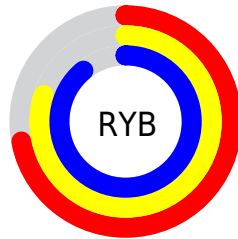
The Yxy color **69.8418, 0.2854, 0.3312** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **53.5419, 0.3483, 0.3268**, and the grayscale version is **66.4588, 0.3127, 0.3290**.

A 20% lighter version of the original color is **97.2653, 0.3035, 0.3290**, and **36.6575, 0.2787, 0.3320** is the 20% darker color. If you saturate the color by 10%, you get **67.2360, 0.2725, 0.3325**, and if you desaturate by 10%, it is **72.8986, 0.2994, 0.3300**.

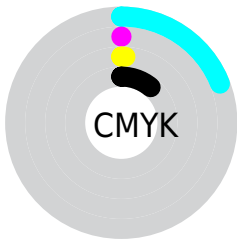
# Distribution



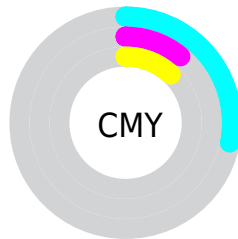
- Red (72%)
- Green (89%)
- Blue (88%)



- Red (72%)
- Yellow (80%)
- Blue (89%)



- Cyan (19%)
- Magenta (0%)
- Yellow (1%)
- Black (11%)




- Cyan (28%)
- Magenta (11%)
- Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.8418, 0.2854, 0.3312 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 69.8418, 0.2854, 0.3312 by changing the saturation by 10% instead.





 69.8418, 0.2854,  
0.3312

 69.8418, 0.2854,  
0.3312


459.9943, 0.2981,  
0.3303

 51.3976, 0.2825,  
0.3314


 118.9831, 0.2898,  
0.3309

 36.5251, 0.2789,  
0.3316


150.4490, 0.2915,  
0.3308

 24.8400, 0.2744,  
0.3318


187.0242, 0.2930,  
0.3307

 15.9579, 0.2684,  
0.3321

229.0932, 0.2943,  
0.3306

 9.4944, 0.2603,  
0.3324

277.0403, 0.2954,  
0.3305

 5.0650, 0.2486,  
0.3327

331.2499, 0.2964,

 2.2855, 0.2302,

0.3304

392.1065, 0.2973,  
0.3304

0.3328

0.7660, 0.1695,  
0.3418

0.0000, 0.0000,  
0.0000

69.8418, 0.2854,  
0.3312

69.8418, 0.2854,  
0.3312

67.2360, 0.2725,  
0.3325

72.8986, 0.2994,  
0.3300

65.0515, 0.2609,  
0.3339

76.4177, 0.3142,  
0.3289


63.2681, 0.2509,  
0.3353

80.4204, 0.3294,  
0.3279

61.8608, 0.2427,  
0.3368


81.2638, 0.3317,  
0.3269


 60.8017, 0.2364,  
0.3383


 81.3216, 0.3310,  
0.3259

 60.0590, 0.2321,  
0.3399


 81.3797, 0.3303,  
0.3248

 59.5952, 0.2296,  
0.3414

 81.4382, 0.3296,  
0.3238

 59.3515, 0.2287,  
0.3429

 81.4970, 0.3289,  
0.3228

 59.3320, 0.2286,  
0.3430

 81.5562, 0.3282,  
0.3218

# Harmonies

## Analogous

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



69.8418, 0.2994, 0.3473



69.8418, 0.2854, 0.3312



69.8418, 0.2786, 0.3150

# Triad

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



69.8418, 0.2854, 0.3312



69.8418, 0.3074, 0.3019



69.8418, 0.3456, 0.3541

# Complementary

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



69.8418, 0.2854, 0.3312



53.5419, 0.3483, 0.3268

# 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.



69.8418, 0.3481, 0.3413



69.8418, 0.2854, 0.3312



69.8418, 0.3256, 0.3117

# Square

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



69.8418, 0.2854, 0.3312



69.8418, 0.2910, 0.2988



69.8418, 0.3407, 0.3260



69.8418, 0.3342, 0.3605



# Rectangle

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



69.8418, 0.2854, 0.3312



69.8418, 0.2790, 0.3065



69.8418, 0.3407, 0.3260



69.8418, 0.3475, 0.3504

# Sweetspot

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



69.8447, 0.2854, 0.3312



97.1677, 0.3037, 0.3297



68.1462, 0.3118, 0.3808



20.7348, 0.3028, 0.3297



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

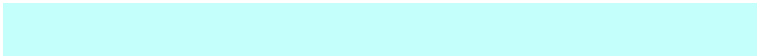


# Same Dimension

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



69.8447, 0.2854, 0.3312



90.3508, 0.2799, 0.3317



60.0180, 0.2829, 0.3060



15.5609, 0.2988, 0.3300



33.8539, 0.2286, 0.3428



2.3500, 0.2279, 0.3405



# Inverse Universe

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



53.5419, 0.3483, 0.3268



65.0233, 0.3582, 0.3264



61.9962, 0.3459, 0.3509



13.7107, 0.3285, 0.3280



9.2420, 0.6350, 0.3272

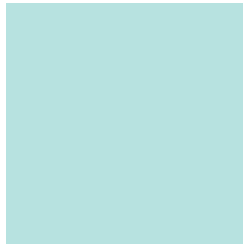


0.6442, 0.6204, 0.3191



# Previews

## White Background



This preview shows how the Yxy color 69.8418, 0.2854, 0.3312 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

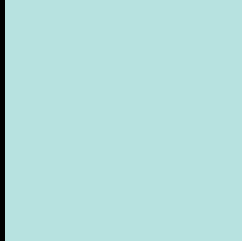
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.8418, 0.2854, 0.3312 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

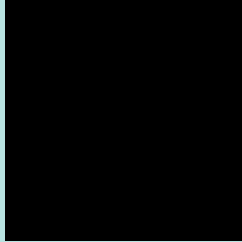
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

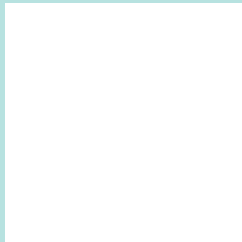
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 69.8418, 0.2854, 0.3312**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.8418, 0.2854, 0.3312.

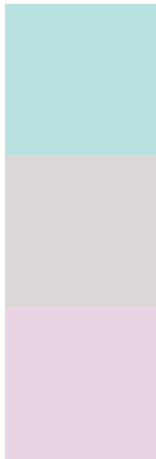


This preview shows how white text looks on a background with the Yxy color 69.8418, 0.2854, 0.3312.

# 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

69.8418, 0.2854, 0.3312

### Protanopia

69.3893, 0.3143, 0.3268

### Deuteranopia

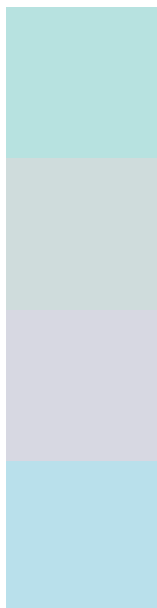
69.6270, 0.3187, 0.3121



## Tritanopia

69.5653, 0.2773, 0.3086

# Trichromacy



## Original Color

69.8418, 0.2854, 0.3312

## Protanomaly

69.6191, 0.3036, 0.3290

## Deuteranomaly

69.0498, 0.3054, 0.3180

## Tritanomaly

69.6238, 0.2802, 0.3164

# Monochromacy



## Original Color

69.8418, 0.2854, 0.3312

## Achromatopsia

66.5387, 0.3127, 0.3290

## Achromatomaly

67.7091, 0.3020, 0.3301

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.8418, 0.2854, 0.3312 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(183, 226, 224)` looks like.

```
.text, #text, p{  
    color:rgb(183, 226, 224)  
}
```

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(183, 226, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(183, 226, 224) }
```

## Border

The CSS property to change the border of an element to Yxy 69.8418, 0.2854, 0.3312 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(183, 226, 224) }
```

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

```
.border{ border-color:rgb(183, 226, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(183, 226, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(183, 226, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(183, 226, 224);  
box-shadow:4px 4px 4px 4px rgb(183, 226,  
224) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.8418, 0.2854, 0.3312 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(183, 226, 224) }
```

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

```
.background{ background-color: rgb(183,  
226, 224) }
```

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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