

# Converting Colors

$Yxy(70.2422, 0.2748, 0.3200)$

Have a look what the booklet for  
Yxy(70.2422, 0.2748, 0.3200)  
contains.

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# Color

**Yxy(70.1664, 0.2750, 0.3197)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B0E3EB
RGB	176, 227, 235
RGB Percent	69%, 89%, 92%
CMY	0.3101, 0.1097, 0.0785
CMYK	0.25, 0.03, 0.00, 0.08
HSL	188°, 60%, 81%
HSV	188°, 25%, 92%
XYZ	60.3558, 70.1664, 88.9535
YIQ	212.6630, -32.9640, -8.3240

# Conversions

## Conversions Part 2

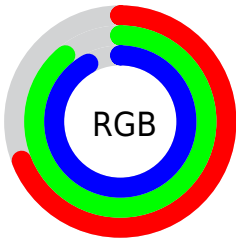
Format	Color
R <sub>Y</sub> B	176, 203, 235
Decimal	11592683
CIE Lab	87.08, -14.54, -9.25
CIE LCh	87, 17.230, 212.452
Yxy	70.1664, 0.2750, 0.3197
Android (android.graphics.Color)	4289782763 (0xFFB0E3EB)
YUV	212.6630, 11.0121, -32.1535
Hunter-Lab	83.7654, -17.9741, -4.3264

# Details

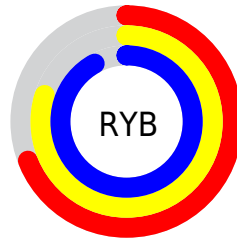
The Yxy color **70.1664, 0.2750, 0.3197** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **55.0336, 0.3637, 0.3381**, and the grayscale version is **66.2370, 0.3127, 0.3290**.

A 20% lighter version of the original color is **96.0636, 0.2993, 0.3290**, and **36.8973, 0.2666, 0.3182** is the 20% darker color. If you saturate the color by 10%, you get **65.9448, 0.2614, 0.3155**, and if you desaturate by 10%, it is **74.8997, 0.2896, 0.3236**.

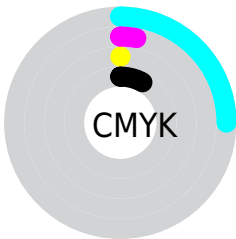
# Distribution



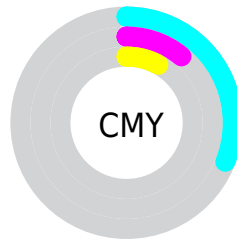
- Red (69%)
- Green (89%)
- Blue (92%)



- Red (69%)
- Yellow (80%)
- Blue (92%)



- Cyan (25%)
- Magenta (3%)
- Yellow (0%)
- Black (8%)



- Cyan (31%)
- Magenta (11%)
- Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.1664, 0.2750, 0.3197 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 70.1664, 0.2750, 0.3197 by changing the saturation by 10% instead.



70.1664, 0.2750,  
0.3197

70.1664, 0.2750,  
0.3197

461.1340, 0.2924,  
0.3243

51.6622, 0.2711,  
0.3186

119.4460, 0.2810,  
0.3213

36.7359, 0.2662,  
0.3172

150.9902, 0.2833,  
0.3220

25.0031, 0.2601,  
0.3153

187.6499, 0.2854,  
0.3225

16.0793, 0.2521,  
0.3128

229.8094, 0.2871,  
0.3230

9.5803, 0.2414,  
0.3092

277.8532, 0.2887,  
0.3234

5.1216, 0.2260,  
0.3037

332.1657, 0.2900,

2.3188, 0.2026,

0.3237

0.2944

393.1311, 0.2913,  
0.3240

0.7836, 0.1403,  
0.2821

0.0000, 0.0000,  
0.0000

70.1664, 0.2750,  
0.3197

70.1664, 0.2750,  
0.3197

65.9448, 0.2614,  
0.3155

74.8997, 0.2896,  
0.3236

62.2018, 0.2491,  
0.3110

80.1591, 0.3048,  
0.3273

58.9134, 0.2383,  
0.3064

85.9687, 0.3203,  
0.3306

56.0501, 0.2293,  
0.3016

89.4068, 0.3258,  
0.3337

■ 53.5785, 0.2222,  
0.2968

■ 91.2879, 0.3255,  
0.3367

■ 51.4599, 0.2170,  
0.2920

■ 93.2018, 0.3252,  
0.3398

■ 49.6466, 0.2137,  
0.2873

■ 95.1486, 0.3249,  
0.3428

■ 48.8384, 0.2125,  
0.2850

■ 97.1285, 0.3246,  
0.3459

■ 98.7778, 0.3244,  
0.3483

# Harmonies

## Analogous

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



70.1664, 0.2865, 0.3394



70.1664, 0.2750, 0.3197



70.1664, 0.2732, 0.3035

# Triad

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



70.1664, 0.2750, 0.3197



70.1664, 0.3194, 0.3036



70.1664, 0.3442, 0.3639

# Complementary

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



70.1664, 0.2750, 0.3197



55.0336, 0.3637, 0.3381

# 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.



70.1664, 0.3537, 0.3529



70.1664, 0.2750, 0.3197



70.1664, 0.3392, 0.3184

# Square

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



70.1664, 0.2750, 0.3197



70.1664, 0.2983, 0.2950



70.1664, 0.3520, 0.3362



70.1664, 0.3262, 0.3656



# Rectangle

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



70.1664, 0.2750, 0.3197



70.1664, 0.2778, 0.2967



70.1664, 0.3520, 0.3362



70.1664, 0.3485, 0.3611

# Sweetspot

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



70.1692, 0.2750, 0.3197



94.5897, 0.3003, 0.3262



72.0874, 0.3047, 0.3907



20.0385, 0.2980, 0.3257



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.



70.1692, 0.2750, 0.3197



81.8517, 0.2681, 0.3176



55.4192, 0.2718, 0.2843



16.7549, 0.2981, 0.3257



27.3206, 0.2127, 0.2858



2.2413, 0.2145, 0.2923



# Inverse Universe

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



54.2315, 0.3219, 0.2744



59.8728, 0.3241, 0.2633



68.5511, 0.3560, 0.3699



15.2768, 0.3158, 0.3089



12.2508, 0.3582, 0.1747

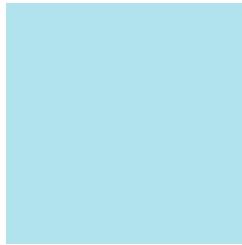


0.9717, 0.3522, 0.1714



# Previews

## White Background



This preview shows how the Yxy color 70.1664, 0.2750, 0.3197 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

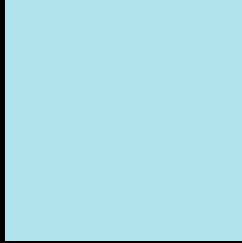
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.1664, 0.2750, 0.3197 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

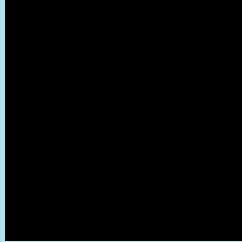
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 70.1664, 0.2750, 0.3197**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.1664, 0.2750, 0.3197.

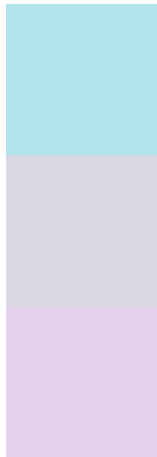


This preview shows how white text looks on a background with the Yxy color 70.1664, 0.2750, 0.3197.

# 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

70.1664, 0.2750, 0.3197

### Protanopia

69.6186, 0.3062, 0.3159

### Deuteranopia

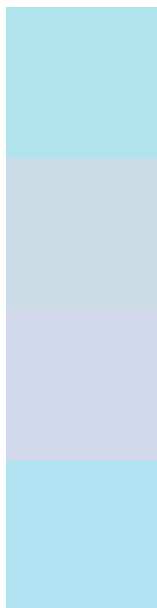
69.4196, 0.3075, 0.3005



## Tritanopia

70.3893, 0.2712, 0.3085

# Trichromacy



**Original Color**

70.1664, 0.2750, 0.3197

**Protanomaly**

69.6524, 0.2939, 0.3167

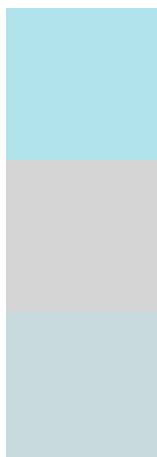
**Deuteranomaly**

69.4418, 0.2949, 0.3071

**Tritanomaly**

70.0907, 0.2722, 0.3118

# Monochromacy



**Original Color**

70.1664, 0.2750, 0.3197

**Achromatopsia**

66.5387, 0.3127, 0.3290

**Achromatomaly**

67.6426, 0.2981, 0.3255

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.1664, 0.2750, 0.3197 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, 227, 235)` looks like.

```
.text, #text, p{  
    color:rgb(176, 227, 235)  
}
```

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, 227, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 227, 235) }
```

## Border

The CSS property to change the border of an element to Yxy 70.1664, 0.2750, 0.3197 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, 227, 235) }
```

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

```
.border{ border-color:rgb(176, 227, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(176, 227, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 227, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 227, 235);  
box-shadow:4px 4px 4px 4px rgb(176, 227,  
235) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.1664, 0.2750, 0.3197 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 227, 235) }
```

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

```
.background{ background-color: rgb(176,  
227, 235) }
```

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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