

# Converting Colors

$Y_{xy}(70.4009, 0.2532, 0.3266)$

Have a look what the booklet for  
Yxy(70.4009, 0.2532, 0.3266)  
contains.

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# Color

**Yxy(70.5176, 0.2530, 0.3264)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 85EBED                       |
| RGB         | 133, 235, 237                |
| RGB Percent | 52%, 92%, 93%                |
| CMY         | 0.4788, 0.0784, 0.0705       |
| CMYK        | 0.44, 0.01, 0.00, 0.07       |
| HSL         | 181°, 74%, 73%               |
| HSV         | 181°, 44%, 93%               |
| XYZ         | 54.6598, 70.5176, 90.8692    |
| YIQ         | 204.7300, -61.4340, -21.0020 |

# Conversions

## Conversions Part 2

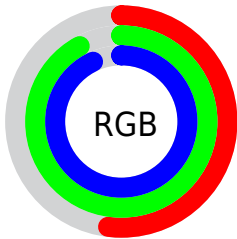
| Format                              | Color  |
|-------------------------------------|--|
| <a href="#">RYB</a>                 | <a href="#">133, 184, 237</a>                                |
| Decimal                             | <a href="#">8776685</a>                                      |
| CIELab                              | <a href="#">87.25, -29.25, -10.28</a>                        |
| CIELCh                              | <a href="#">87, 31.003, 199.369</a>                          |
| Yxy                                 | <a href="#">70.5176, 0.2530, 0.3264</a>                      |
| Android<br>(android.graphics.Color) | <a href="#">4286966765</a><br>( <a href="#">0xFF85EBED</a> ) |
| YUV                                 | <a href="#">204.7300, 15.9091, -62.9072</a>                  |
| Hunter-Lab                          | <a href="#">83.9748, -30.7689, -5.3754</a>                   |

# Details

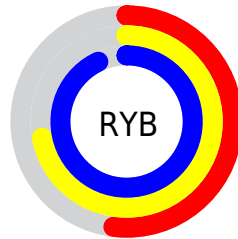
The Yxy color **70.5176, 0.2530, 0.3264** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **37.0081, 0.4284, 0.3316**, and the grayscale version is **60.7865, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.8164, 0.2757, 0.3289**, and **36.9929, 0.2395, 0.3256** is the 20% darker color. If you saturate the color by 10%, you get **68.5435, 0.2433, 0.3257**, and if you desaturate by 10%, it is **72.9330, 0.2644, 0.3270**.

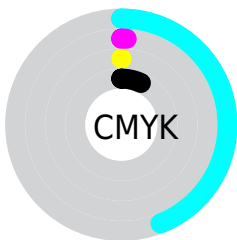
# Distribution



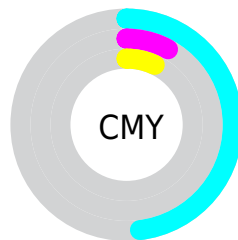
- Red (52%)
- Green (92%)
- Blue (93%)



- Red (52%)
- Yellow (72%)
- Blue (93%)



- Cyan (44%)
- Magenta (1%)
- Yellow (0%)
- Black (7%)




- Cyan (48%)
- Magenta (8%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.5176, 0.2530, 0.3264 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 70.5176, 0.2530, 0.3264 by changing the saturation by 10% instead.




 70.5176, 0.2530,  
0.3264

 70.5176, 0.2530,  
0.3264


462.3653, 0.2803,  
0.3282

 51.9486, 0.2469,  
0.3258


 119.9466, 0.2624,  
0.3272

 36.9641, 0.2394,  
0.3250


 151.5754, 0.2660,  
0.3274

 25.1797, 0.2300,  
0.3239


 188.3263, 0.2692,  
0.3276

 16.2110, 0.2179,  
0.3223

230.5836, 0.2720,  
0.3278

 9.6736, 0.2018,  
0.3196

278.7317, 0.2744,  
0.3279

 5.1831, 0.1795,  
0.3151

333.1552, 0.2766,

 2.3551, 0.1468,

0.3281

394.2382, 0.2785,  
0.3282

0.3063

0.8026, 0.0189,  
0.3098

0.0000, 0.0000,  
0.0000

70.5176, 0.2530,  
0.3264

70.5176, 0.2530,  
0.3264

68.5435, 0.2433,  
0.3257

72.9330, 0.2644,  
0.3270

66.9728, 0.2356,  
0.3251

75.8084, 0.2773,  
0.3277

65.7749, 0.2298,  
0.3244


79.1712, 0.2915,  
0.3282

64.9111, 0.2259,  
0.3238

83.0443, 0.3066,  
0.3288


 64.3344, 0.2237,  
0.3232


 87.4493, 0.3223,  
0.3293

 64.0806, 0.2230,  
0.3228

 88.3861, 0.3247,  
0.3298

 88.6527, 0.3247,  
0.3302

 88.9200, 0.3246,  
0.3307

 89.1880, 0.3246,  
0.3311

# Harmonies

## Analogous

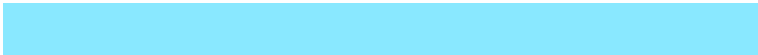
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



70.5176, 0.2788, 0.3629



70.5176, 0.2530, 0.3264



70.5176, 0.2427, 0.2935

# Triad

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



70.5176, 0.2530, 0.3264



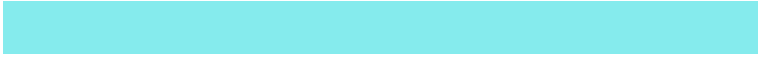
70.5176, 0.3071, 0.2768



70.5176, 0.3787, 0.3835

# Complementary

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



70.5176, 0.2530, 0.3264



37.0081, 0.4284, 0.3316

# 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.



70.5176, 0.3881, 0.3575



70.5176, 0.2530, 0.3264



70.5176, 0.3454, 0.2979

# Square

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



70.5176, 0.2530, 0.3264



70.5176, 0.2724, 0.2676



70.5176, 0.3758, 0.3267



70.5176, 0.3514, 0.3966

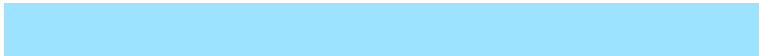


# Rectangle

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



70.5176, 0.2530, 0.3264



70.5176, 0.2454, 0.2782



70.5176, 0.3758, 0.3267



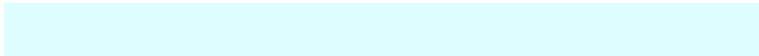
70.5176, 0.3842, 0.3758

# Sweetspot

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



70.5203, 0.2530, 0.3264



93.8380, 0.2928, 0.3283



67.3023, 0.3054, 0.4640



19.8835, 0.2895, 0.3282



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.



70.5203, 0.2530, 0.3264



81.0678, 0.2440, 0.3258



45.0602, 0.2415, 0.2595



17.0690, 0.2981, 0.3285



35.0012, 0.2230, 0.3229



2.7644, 0.2233, 0.3237



# Inverse Universe

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



40.7603, 0.3195, 0.2234



41.7099, 0.3210, 0.2042



55.1162, 0.4011, 0.3887



15.3085, 0.3141, 0.3062



13.0262, 0.3258, 0.1568

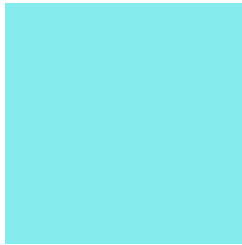


1.0245, 0.3251, 0.1564



# Previews

## White Background



This preview shows how the Yxy color 70.5176, 0.2530, 0.3264 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

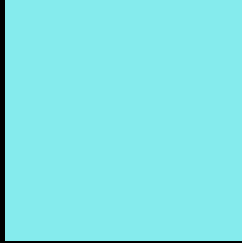
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.5176, 0.2530, 0.3264 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

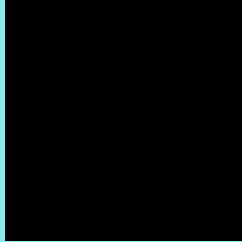
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 70.5176, 0.2530, 0.3264**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.5176, 0.2530, 0.3264.

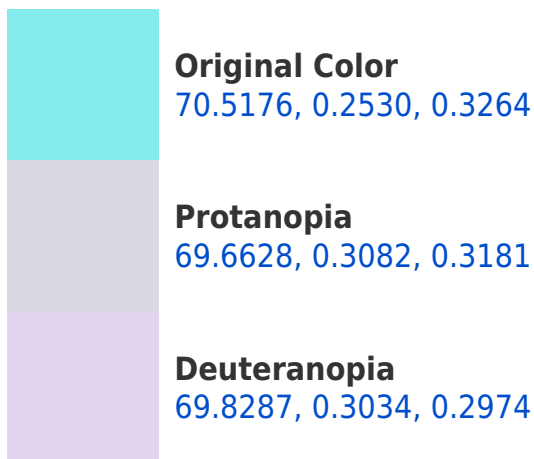


This preview shows how white text looks on a background with the Yxy color 70.5176, 0.2530, 0.3264.

# 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





## Tritanopia

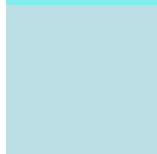
70.6245, 0.2475, 0.3066

# Trichromacy



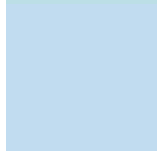
## Original Color

70.5176, 0.2530, 0.3264



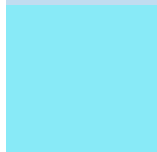
## Protanomaly

69.1799, 0.2849, 0.3209



## Deuteranomaly

68.8151, 0.2820, 0.3065



## Tritanomaly

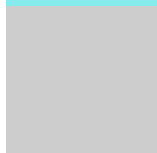
70.7953, 0.2496, 0.3135

# Monochromacy



## Original Color

70.5176, 0.2530, 0.3264



## Achromatopsia

61.0496, 0.3127, 0.3290



## Achromatomaly

63.7052, 0.2864, 0.3277

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.5176, 0.2530, 0.3264 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, 235, 237)` looks like.

```
.text, #text, p{  
    color:rgb(133, 235, 237)  
}
```

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, 235, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 235, 237) }
```

## Border

The CSS property to change the border of an element to Yxy 70.5176, 0.2530, 0.3264 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, 235, 237) }
```

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

```
.border{ border-color:rgb(133, 235, 237) }
```

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

Here you see how a box with a 4 pixel rgb(133, 235, 237) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 235, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 235, 237);  
box-shadow:4px 4px 4px 4px rgb(133, 235,  
237) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.5176, 0.2530, 0.3264 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 235, 237) }
```

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

```
.background{ background-color: rgb(133,  
235, 237) }
```

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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