

# Converting Colors

$Y_{xy}(62.9869, 0.2550, 0.3220)$

Have a look what the booklet for  
Yxy(62.9869, 0.2550, 0.3220)  
contains.

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# Color

**Yxy(62.8305, 0.2547, 0.3213)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85DEE4
RGB	133, 222, 228
RGB Percent	52%, 87%, 89%
CMY	0.4782, 0.1294, 0.1058
CMYK	0.42, 0.03, 0.00, 0.11
HSL	184°, 64%, 71%
HSV	184°, 42%, 89%
XYZ	49.8068, 62.8305, 82.9136
YIQ	196.0730, -54.9700, -17.0020

# Conversions

## Conversions Part 2

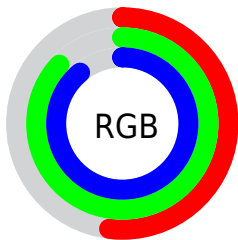
<b>Format</b>	<b>Color</b>
<b>RYB</b>	133, 179, 228
Decimal	8773348
CIELab	83.35, -25.14, -11.34
CIELCh	83, 27.577, 204.274
Yxy	62.8305, 0.2547, 0.3213
Android (android.graphics.Color)	4286963428 (0xFF85DEE4)
YUV	196.0730, 15.7400, -55.3150
Hunter-Lab	79.2657, -26.5540, -6.5326

# Details

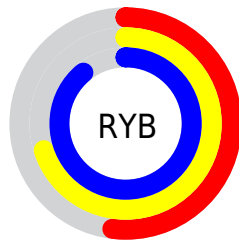
The Yxy color **62.8305, 0.2547, 0.3213** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **36.6841, 0.4170, 0.3363**, and the grayscale version is **55.1868, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.6871, 0.2752, 0.3289**, and **32.1504, 0.2405, 0.3187** is the 20% darker color. If you saturate the color by 10%, you get **60.4076, 0.2442, 0.3192**, and if you desaturate by 10%, it is **65.6678, 0.2669, 0.3233**.

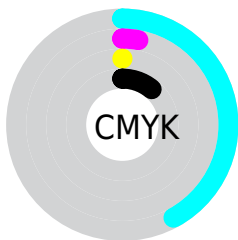
# Distribution



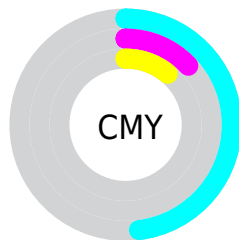
- Red (52%)
- Green (87%)
- Blue (89%)



- Red (52%)
- Yellow (70%)
- Blue (89%)



- Cyan (42%)
- Magenta (3%)
- Yellow (0%)
- Black (11%)




- Cyan (48%)
- Magenta (13%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 62.8305, 0.2547, 0.3213 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 62.8305, 0.2547, 0.3213 by changing the saturation by 10% instead.





 62.8305, 0.2547,  
0.3213


 62.8305, 0.2547,  
0.3213


434.9541, 0.2817,  
0.3256


 45.7041, 0.2485,  
0.3201


 108.9249, 0.2641,  
0.3229

 32.0124, 0.2409,  
0.3186


 138.6618, 0.2677,  
0.3235

 21.3710, 0.2312,  
0.3165


 173.3709, 0.2709,  
0.3240

 13.3954, 0.2185,  
0.3136

213.4366, 0.2736,  
0.3244

 7.7014, 0.2014,  
0.3090

259.2434, 0.2760,  
0.3248

 3.9045, 0.1770,  
0.3014

311.1757, 0.2781,

 1.6203, 0.1401,

0.3251

0.2869

369.6177, 0.2800,  
0.3253

0.3712, 0.0000,  
0.2339

0.0000, 0.0000,  
0.0000

62.8305, 0.2547,  
0.3213

62.8305, 0.2547,  
0.3213

60.4076, 0.2442,  
0.3192

65.6678, 0.2669,  
0.3233

58.3654, 0.2354,  
0.3170

68.9360, 0.2803,  
0.3253

56.6769, 0.2286,  
0.3149

72.6598, 0.2949,  
0.3271

55.3082, 0.2237,  
0.3127

76.8597, 0.3102,  
0.3287

■ 54.2188, 0.2206,  
0.3106

■ 81.5551, 0.3259,  
0.3303

■ 53.4671, 0.2191,  
0.3088

■ 83.8325, 0.3313,  
0.3317

■ 84.6444, 0.3311,  
0.3331

■ 85.4630, 0.3310,  
0.3345

■ 86.2884, 0.3308,  
0.3360

# Harmonies

## Analogous

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



62.8305, 0.2767, 0.3551



62.8305, 0.2547, 0.3213



62.8305, 0.2476, 0.2923

# Triad

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



62.8305, 0.2547, 0.3213



62.8305, 0.3135, 0.2830



62.8305, 0.3707, 0.3826

# Complementary

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



62.8305, 0.2547, 0.3213



36.6841, 0.4170, 0.3363

# 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.



62.8305, 0.3823, 0.3601



62.8305, 0.2547, 0.3213



62.8305, 0.3484, 0.3042

# Square

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



62.8305, 0.2547, 0.3213



62.8305, 0.2801, 0.2725



62.8305, 0.3741, 0.3317



62.8305, 0.3435, 0.3916

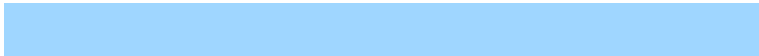


# Rectangle

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



62.8305, 0.2547, 0.3213



62.8305, 0.2519, 0.2794



62.8305, 0.3741, 0.3317



62.8305, 0.3766, 0.3762

# Sweetspot

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



62.8330, 0.2547, 0.3213



93.4185, 0.2942, 0.3270



62.3185, 0.3041, 0.4512



19.8538, 0.2923, 0.3268



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.



62.8330, 0.2547, 0.3213



78.2361, 0.2455, 0.3195



41.5645, 0.2447, 0.2596



16.1714, 0.2982, 0.3274



30.9349, 0.2192, 0.3091



2.3336, 0.2201, 0.3122



# Inverse Universe

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



38.5636, 0.3230, 0.2325



43.2780, 0.3255, 0.2145



53.0116, 0.3937, 0.3890



14.5986, 0.3148, 0.3073



12.3206, 0.3375, 0.1633

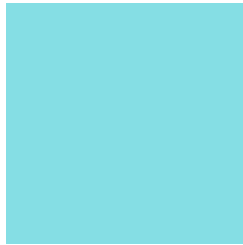


0.9153, 0.3348, 0.1618



# Previews

## White Background



This preview shows how the Yxy color 62.8305, 0.2547, 0.3213 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

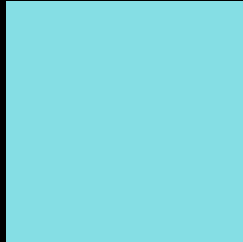
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 62.8305, 0.2547, 0.3213 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 62.8305, 0.2547, 0.3213**

## **Background**



This preview shows how black text looks on a background with the Yxy color 62.8305, 0.2547, 0.3213.



This preview shows how white text looks on a background with the Yxy color 62.8305, 0.2547, 0.3213.

# 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

62.8305, 0.2547, 0.3213

### Protanopia

61.9900, 0.3052, 0.3141

### Deuteranopia

62.0466, 0.3016, 0.2948



## Tritanopia

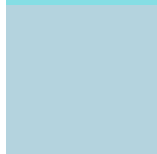
62.5937, 0.2508, 0.3068

# Trichromacy



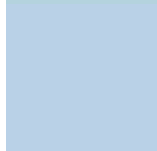
## Original Color

62.8305, 0.2547, 0.3213



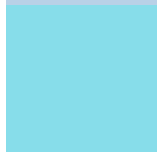
## Protanomaly

61.5658, 0.2837, 0.3158



## Deuteranomaly

61.6847, 0.2814, 0.3033



## Tritanomaly

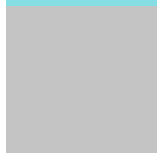
62.8043, 0.2525, 0.3128

# Monochromacy



## Original Color

62.8305, 0.2547, 0.3213



## Achromatopsia

55.2011, 0.3127, 0.3290



## Achromatomaly

57.1009, 0.2873, 0.3252

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 62.8305, 0.2547, 0.3213 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, 222, 228)` looks like.

```
.text, #text, p{  
    color:rgb(133, 222, 228)  
}
```

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, 222, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 222, 228) }
```

## Border

The CSS property to change the border of an element to Yxy 62.8305, 0.2547, 0.3213 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, 222, 228) }
```

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

```
.border{ border-color:rgb(133, 222, 228) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 222, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 222, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 222, 228);  
box-shadow:4px 4px 4px 4px rgb(133, 222,  
228) }
```



# Background

The CSS property to change the background color of an element to Yxy 62.8305, 0.2547, 0.3213 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 222, 228) }
```

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

```
.background{ background-color: rgb(133,  
222, 228) }
```

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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