

# Converting Colors

$Y_{xy}(68.0239, 0.2652, 0.3272)$

Have a look what the booklet for  
Yxy(68.0239, 0.2652, 0.3272)  
contains.

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# Color

**Yxy(67.9723, 0.2649, 0.3265)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99E4E6
RGB	153, 228, 230
RGB Percent	60%, 89%, 90%
CMY	0.4004, 0.1058, 0.0981
CMYK	0.34, 0.01, 0.00, 0.10
HSL	182°, 61%, 75%
HSV	182°, 34%, 90%
XYZ	55.1481, 67.9723, 85.0643
YIQ	205.8030, -45.3420, -15.2780

# Conversions

## Conversions Part 2

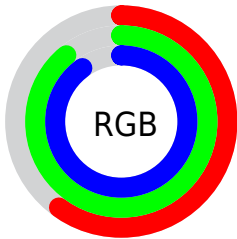
<b>Format</b>	<b>Color</b>
<b>RYB</b>	153, 191, 230
Decimal	10085606
CIELab	85.99, -22.59, -8.35
CIELCh	86, 24.087, 200.288
Yxy	67.9723, 0.2649, 0.3265
Android (android.graphics.Color)	4288275686 (0xFF99E4E6)
YUV	205.8030, 11.9291, -46.3082
Hunter-Lab	82.4453, -24.8797, -3.4617

# Details

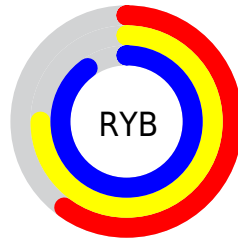
The Yxy color **67.9723, 0.2649, 0.3265** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **42.5174, 0.3904, 0.3315**, and the grayscale version is **61.5218, 0.3127, 0.3290**.

A 20% lighter version of the original color is **92.4416, 0.2860, 0.3289**, and **35.1969, 0.2534, 0.3240** is the 20% darker color. If you saturate the color by 10%, you get **65.6286, 0.2534, 0.3257**, and if you desaturate by 10%, it is **70.7537, 0.2779, 0.3273**.

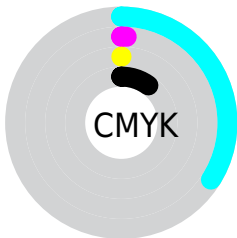
# Distribution



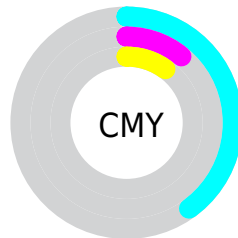
- Red (60%)
- Green (89%)
- Blue (90%)



- Red (60%)
- Yellow (75%)
- Blue (90%)



- Cyan (34%)
- Magenta (1%)
- Yellow (0%)
- Black (10%)




- Cyan (40%)
- Magenta (11%)
- Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.9723, 0.2649, 0.3265 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 67.9723, 0.2649, 0.3265 by changing the saturation by 10% instead.




 67.9723, 0.2649,  
0.3265

 67.9723, 0.2649,  
0.3265


453.3979, 0.2870,  
0.3281

 49.8752, 0.2599,  
0.3260


 116.3125, 0.2725,  
0.3271

 35.3142, 0.2537,  
0.3254


 147.3244, 0.2755,  
0.3273

 23.9050, 0.2459,  
0.3245


183.4100, 0.2781,  
0.3275

 15.2632, 0.2357,  
0.3232

224.9538, 0.2803,  
0.3277

 9.0043, 0.2219,  
0.3212

272.3401, 0.2823,  
0.3278

 4.7440, 0.2024,  
0.3177

325.9532, 0.2840,

 2.0979, 0.1727,

0.3279

0.3108

386.1777, 0.2856,  
0.3280

0.6634, 0.0378,  
0.3173

0.0000, 0.0000,  
0.0000

67.9723, 0.2649,  
0.3265

67.9723, 0.2649,  
0.3265

65.6286, 0.2534,  
0.3257

70.7537, 0.2779,  
0.3273

63.6895, 0.2436,  
0.3248

73.9875, 0.2921,  
0.3281

62.1305, 0.2357,  
0.3239

77.6978, 0.3072,  
0.3288

60.9206, 0.2297,  
0.3231

81.9044, 0.3230,  
0.3294

■ 60.0243, 0.2256,  
0.3222

■ 84.0966, 0.3300,  
0.3300

■ 59.3984, 0.2233,  
0.3214

■ 84.4249, 0.3299,  
0.3306

■ 59.0930, 0.2225,  
0.3209

■ 84.7543, 0.3298,  
0.3312

■ 85.0848, 0.3298,  
0.3317

■ 85.4164, 0.3297,  
0.3323

# Harmonies

## Analogous

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



67.9723, 0.2854, 0.3546



67.9723, 0.2649, 0.3265



67.9723, 0.2569, 0.3008

# Triad

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



67.9723, 0.2649, 0.3265



67.9723, 0.3095, 0.2877



67.9723, 0.3643, 0.3729

# Complementary

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



67.9723, 0.2649, 0.3265



42.5174, 0.3904, 0.3315

# 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.



67.9723, 0.3719, 0.3529



67.9723, 0.2649, 0.3265



67.9723, 0.3394, 0.3050

# Square

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



67.9723, 0.2649, 0.3265



67.9723, 0.2817, 0.2801



67.9723, 0.3627, 0.3283



67.9723, 0.3427, 0.3820

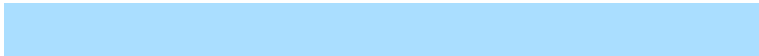


# Rectangle

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



67.9723, 0.2649, 0.3265



67.9723, 0.2593, 0.2886



67.9723, 0.3627, 0.3283



67.9723, 0.3687, 0.3671

# Sweetspot

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



67.9750, 0.2649, 0.3265



95.0668, 0.2973, 0.3283



65.6884, 0.3073, 0.4271



20.2105, 0.2951, 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.



67.9750, 0.2649, 0.3265



83.8663, 0.2570, 0.3259



49.3731, 0.2588, 0.2786



16.2701, 0.2982, 0.3284



33.4891, 0.2225, 0.3210



2.4948, 0.2228, 0.3222



# Inverse Universe

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



45.1759, 0.3183, 0.2479



51.0963, 0.3195, 0.2323



57.1388, 0.3760, 0.3744



14.6086, 0.3142, 0.3064



12.5785, 0.3274, 0.1577



0.9315, 0.3263, 0.1571



# Previews

## White Background



This preview shows how the Yxy color 67.9723, 0.2649, 0.3265 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

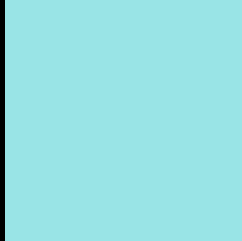
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 67.9723, 0.2649, 0.3265 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

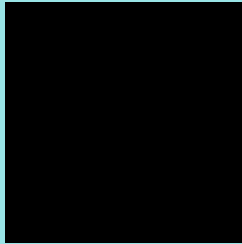
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 67.9723, 0.2649, 0.3265**

## **Background**



This preview shows how black text looks on a background with the Yxy color 67.9723, 0.2649, 0.3265.

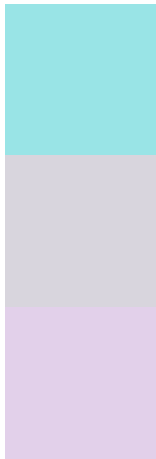


This preview shows how white text looks on a background with the Yxy color 67.9723, 0.2649, 0.3265.

# 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**

67.9723, 0.2649, 0.3265

**Protanopia**

67.4079, 0.3095, 0.3201

**Deuteranopia**

67.2210, 0.3081, 0.3012



## Tritanopia

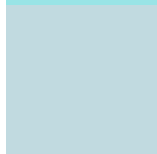
67.9923, 0.2591, 0.3078

# Trichromacy



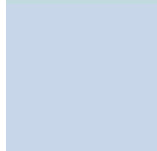
## Original Color

67.9723, 0.2649, 0.3265



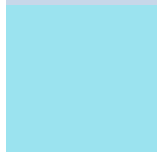
## Protanomaly

66.8621, 0.2915, 0.3220



## Deuteranomaly

66.6262, 0.2898, 0.3087



## Tritanomaly

68.1387, 0.2612, 0.3147

# Monochromacy



## Original Color

67.9723, 0.2649, 0.3265



## Achromatopsia

61.7207, 0.3127, 0.3290



## Achromatomaly

63.5642, 0.2929, 0.3278

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 67.9723, 0.2649, 0.3265 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(153, 228, 230)` looks like.

```
.text, #text, p{  
    color:rgb(153, 228, 230)  
}
```

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(153, 228, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 228, 230) }
```

## Border

The CSS property to change the border of an element to Yxy 67.9723, 0.2649, 0.3265 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(153, 228, 230) }
```

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

```
.border{ border-color:rgb(153, 228, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 228, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 228, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 228, 230);  
box-shadow:4px 4px 4px 4px rgb(153, 228,  
230) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.9723, 0.2649, 0.3265 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 228, 230) }
```

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

```
.background{ background-color: rgb(153,  
228, 230) }
```

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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