

# Converting Colors

$Y_{xy}(62.0230, 0.2576, 0.3279)$

Have a look what the booklet for  
Yxy(62.0230, 0.2576, 0.3279)  
contains.

<b>Yxy(61.9734, 0.2575, 0.3276)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(61.9734, 0.2575, 0.3276)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85DDDE
RGB	133, 221, 222
RGB Percent	52%, 87%, 87%
CMY	0.4784, 0.1333, 0.1295
CMYK	0.40, 0.00, 0.00, 0.13
HSL	181°, 57%, 70%
HSV	181°, 40%, 87%
XYZ	48.7123, 61.9734, 78.4883
YIQ	194.8020, -52.7690, -18.3450

# Conversions

## Conversions Part 2

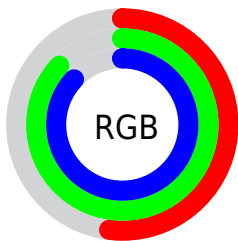
<b>Format</b>	<b>Color</b>
<b>RYB</b>	133, 177, 222
Decimal	8773086
CIELab	82.90, -26.16, -8.81
CIELCh	83, 27.602, 198.615
Yxy	61.9734, 0.2575, 0.3276
Android (android.graphics.Color)	4286963166 (0xFF85DDDE)
YUV	194.8020, 13.4086, -54.2004
Hunter-Lab	78.7232, -27.3134, -4.0069

# Details

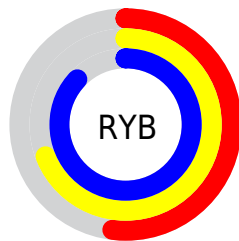
The Yxy color **61.9734, 0.2575, 0.3276** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **34.2658, 0.4135, 0.3305**, and the grayscale version is **54.3928, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.6871, 0.2752, 0.3289**, and **31.5990, 0.2442, 0.3271** is the 20% darker color. If you saturate the color by 10%, you get **60.2273, 0.2472, 0.3272**, and if you desaturate by 10%, it is **64.1063, 0.2694, 0.3280**.

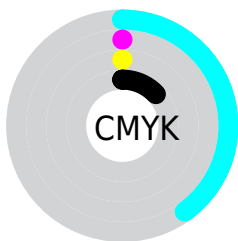
# Distribution



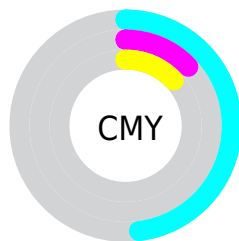
- Red (52%)
- Green (87%)
- Blue (87%)



- Red (52%)
- Yellow (69%)
- Blue (87%)



- Cyan (40%)
- Magenta (0%)
- Yellow (0%)
- Black (13%)




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

# Brightness & Saturation Gradients

These gradients show how the Yxy color 61.9734, 0.2575, 0.3276 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 61.9734, 0.2575, 0.3276 by changing the saturation by 10% instead.




 61.9734, 0.2575,  
0.3276

 61.9734, 0.2575,  
0.3276


431.8341, 0.2833,  
0.3288


 45.0112, 0.2515,  
0.3272


 107.6871, 0.2665,  
0.3281

 31.4663, 0.2442,  
0.3266


 137.2074, 0.2700,  
0.3283

 20.9541, 0.2348,  
0.3257


 171.6825, 0.2730,  
0.3284

 13.0905, 0.2224,  
0.3243

211.4968, 0.2756,  
0.3285

 7.4909, 0.2056,  
0.3220

257.0347, 0.2779,  
0.3286

 3.7709, 0.1815,  
0.3176

308.6806, 0.2799,

 1.5463, 0.1435,

0.3287

0.3087

366.8189, 0.2817,  
0.3288

■ 0.3210, 0.0000,  
0.2495

■ 0.0000, 0.0000,  
0.0000

■ 61.9734, 0.2575,  
0.3276

■ 61.9734, 0.2575,  
0.3276

■ 60.2273, 0.2472,  
0.3272

■ 64.1063, 0.2694,  
0.3280

■ 58.8364, 0.2388,  
0.3268


■ 66.6409, 0.2828,  
0.3283

■ 57.7762, 0.2324,  
0.3265

■ 69.6001, 0.2973,  
0.3287


■ 57.0158, 0.2278,  
0.3261


■ 73.0028, 0.3126,  
0.3290

 56.5185, 0.2251,  
0.3257

 76.8670, 0.3285,  
0.3293

 56.2212, 0.2237,  
0.3254

 79.0242, 0.3364,  
0.3296

 79.1541, 0.3364,  
0.3298

 79.2841, 0.3363,  
0.3300

 79.4144, 0.3363,  
0.3303

# Harmonies

## Analogous

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



61.9734, 0.2820, 0.3612



61.9734, 0.2575, 0.3276



61.9734, 0.2474, 0.2968

# Triad

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



61.9734, 0.2575, 0.3276



61.9734, 0.3067, 0.2799



61.9734, 0.3746, 0.3794

# Complementary

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



61.9734, 0.2575, 0.3276



34.2658, 0.4135, 0.3305

# 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.



61.9734, 0.3827, 0.3551



61.9734, 0.2575, 0.3276



61.9734, 0.3423, 0.2994

# Square

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



61.9734, 0.2575, 0.3276



61.9734, 0.2745, 0.2716



61.9734, 0.3708, 0.3263



61.9734, 0.3496, 0.3916



# Rectangle

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



61.9734, 0.2575, 0.3276



61.9734, 0.2497, 0.2822



61.9734, 0.3708, 0.3263



61.9734, 0.3795, 0.3723

# Sweetspot

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



61.9758, 0.2575, 0.3276



94.4372, 0.2943, 0.3286



58.9137, 0.3070, 0.4518



20.0954, 0.2923, 0.3286



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.



61.9758, 0.2575, 0.3276



82.8399, 0.2489, 0.3273



41.8998, 0.2484, 0.2691



15.5452, 0.2982, 0.3287



33.4120, 0.2237, 0.3254



2.3244, 0.2239, 0.3260



# Inverse Universe

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



37.5242, 0.3182, 0.2316



45.0595, 0.3193, 0.2135



48.8602, 0.3919, 0.3817



13.9329, 0.3140, 0.3062



12.2810, 0.3237, 0.1557

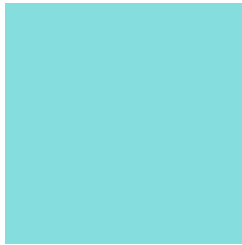


0.8521, 0.3232, 0.1554



# Previews

## White Background



This preview shows how the Yxy color 61.9734, 0.2575, 0.3276 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

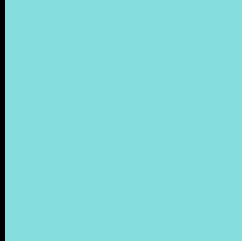
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 61.9734, 0.2575, 0.3276 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 61.9734, 0.2575, 0.3276**

## **Background**



This preview shows how black text looks on a background with the Yxy color 61.9734, 0.2575, 0.3276.

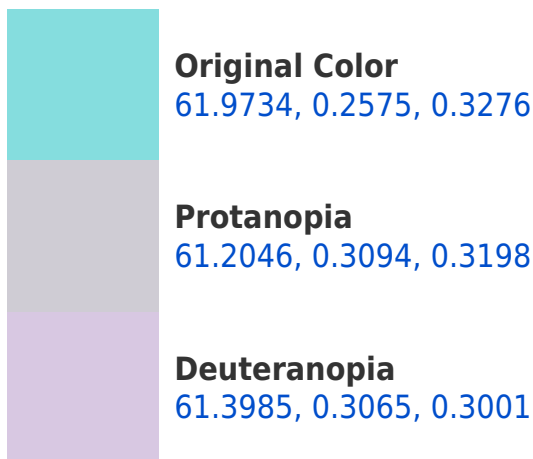


This preview shows how white text looks on a background with the Yxy color 61.9734, 0.2575, 0.3276.

# 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

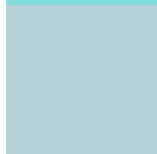
62.0375, 0.2521, 0.3079

# Trichromacy



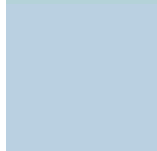
## Original Color

61.9734, 0.2575, 0.3276



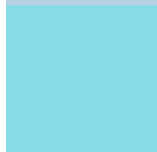
## Protanomaly

60.7544, 0.2873, 0.3217



## Deuteranomaly

60.9871, 0.2857, 0.3089



## Tritanomaly

62.1902, 0.2543, 0.3152

# Monochromacy



## Original Color

61.9734, 0.2575, 0.3276



## Achromatopsia

54.5724, 0.3127, 0.3290



## Achromatomaly

56.3642, 0.2885, 0.3277

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 61.9734, 0.2575, 0.3276 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, 221, 222)` looks like.

```
.text, #text, p{  
    color:rgb(133, 221, 222)  
}
```

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, 221, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 221, 222) }
```

## Border

The CSS property to change the border of an element to Yxy 61.9734, 0.2575, 0.3276 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, 221, 222) }
```

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

```
.border{ border-color:rgb(133, 221, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 221, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 221, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 221, 222);  
box-shadow:4px 4px 4px 4px rgb(133, 221,  
222) }
```



# Background

The CSS property to change the background color of an element to Yxy 61.9734, 0.2575, 0.3276 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 221, 222) }
```

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

```
.background{ background-color: rgb(133,  
221, 222) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor