

# Converting Colors

$Yxy(68.7660, 0.2725, 0.3312)$

Have a look what the booklet for  
Yxy(68.7660, 0.2725, 0.3312)  
contains.

<b>Yxy(68.7643, 0.2725, 0.3313)</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(68.7643, 0.2725, 0.3313)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A3E4E2
RGB	163, 228, 226
RGB Percent	64%, 89%, 89%
CMY	0.3611, 0.1058, 0.1138
CMYK	0.29, 0.00, 0.01, 0.11
HSL	178°, 55%, 77%
HSV	178°, 29%, 89%
XYZ	56.5598, 68.7643, 82.2349
YIQ	208.3370, -38.0980, -14.4020

# Conversions

## Conversions Part 2

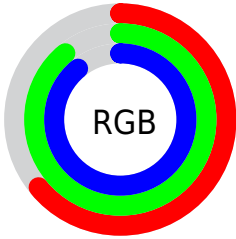
<b>Format</b>	<b>Color</b>
<b>RYB</b>	163, 196, 228
Decimal	10740962
CIELab	86.39, -20.77, -5.61
CIELCh	86, 21.509, 195.108
Yxy	68.7643, 0.2725, 0.3313
Android (android.graphics.Color)	4288931042 (0xFFA3E4E2)
YUV	208.3370, 8.7079, -39.7605
Hunter-Lab	82.9242, -23.3686, -0.7501

# Details

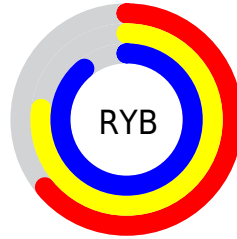
The Yxy color **68.7643, 0.2725, 0.3313** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **45.3751, 0.3736, 0.3268**, and the grayscale version is **63.2571, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.9556, 0.2917, 0.3289**, and **35.6965, 0.2630, 0.3304** is the 20% darker color. If you saturate the color by 10%, you get **66.5358, 0.2607, 0.3322**, and if you desaturate by 10%, it is **71.4323, 0.2857, 0.3304**.

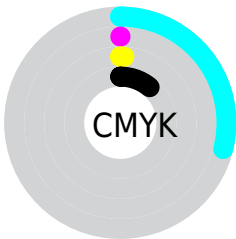
# Distribution



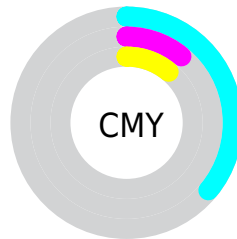
- Red (64%)
- Green (89%)
- Blue (89%)



- Red (64%)
- Yellow (77%)
- Blue (89%)



- Cyan (29%)
- Magenta (0%)
- Yellow (1%)
- Black (11%)




- Cyan (36%)
- Magenta (11%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.7643, 0.2725, 0.3313 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 68.7643, 0.2725, 0.3313 by changing the saturation by 10% instead.




 68.7643, 0.2725,  
0.3313

 68.7643, 0.2725,  
0.3313

456.1992, 0.2911,  
0.3305

 50.5198, 0.2683,  
0.3314


 117.4449, 0.2790,  
0.3311

 35.8266, 0.2630,  
0.3315


 148.6497, 0.2815,  
0.3310

 24.3003, 0.2564,  
0.3316


184.9434, 0.2836,  
0.3309

 15.5565, 0.2477,  
0.3317

226.7104, 0.2855,  
0.3308

 9.2109, 0.2359,  
0.3316

274.3351, 0.2872,  
0.3307

 4.8790, 0.2191,  
0.3310

328.2019, 0.2886,

 2.1764, 0.1930,

0.3306

388.6951, 0.2899,  
0.3306

0.3293

0.7071, 0.0806,  
0.3453

0.0000, 0.0000,  
0.0000

68.7643, 0.2725,  
0.3313

68.7643, 0.2725,  
0.3313

66.5358, 0.2607,  
0.3322

71.4323, 0.2857,  
0.3304

64.7152, 0.2505,  
0.3332

74.5532, 0.2999,  
0.3296

63.2798, 0.2422,  
0.3342

78.1498, 0.3149,  
0.3289

62.2012, 0.2357,  
0.3352

82.2411, 0.3304,  
0.3282

■ 61.4470, 0.2312,  
0.3362

■ 82.4474, 0.3306,  
0.3275

■ 60.9792, 0.2286,  
0.3373

■ 82.4874, 0.3301,  
0.3268

■ 60.7415, 0.2275,  
0.3383

■ 82.5276, 0.3296,  
0.3261

■ 60.7148, 0.2273,  
0.3384

■ 82.5679, 0.3291,  
0.3254

■ 82.6084, 0.3287,  
0.3247

# Harmonies

## Analogous

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



68.7643, 0.2924, 0.3556



68.7643, 0.2725, 0.3313



68.7643, 0.2632, 0.3075

# Triad

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



68.7643, 0.2725, 0.3313



68.7643, 0.3053, 0.2901



68.7643, 0.3608, 0.3657

# Complementary

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



68.7643, 0.2725, 0.3313



45.3751, 0.3736, 0.3268

# 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.



68.7643, 0.3650, 0.3469



68.7643, 0.2725, 0.3313



68.7643, 0.3321, 0.3044

# Square

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



68.7643, 0.2725, 0.3313



68.7643, 0.2815, 0.2851



68.7643, 0.3543, 0.3247



68.7643, 0.3435, 0.3756

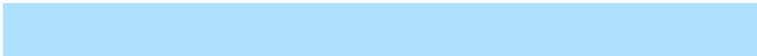


# Rectangle

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



68.7643, 0.2725, 0.3313



68.7643, 0.2639, 0.2955



68.7643, 0.3543, 0.3247



68.7643, 0.3638, 0.3602

# Sweetspot

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



68.7671, 0.2725, 0.3313



95.8581, 0.2992, 0.3297



66.1487, 0.3103, 0.4114



20.3844, 0.2970, 0.3298



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

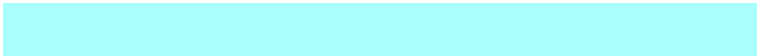


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



68.7671, 0.2725, 0.3313



86.9246, 0.2656, 0.3318



53.6024, 0.2674, 0.2914



16.3282, 0.2986, 0.3297



35.0544, 0.2273, 0.3383



2.5929, 0.2269, 0.3368



# Inverse Universe

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



45.3751, 0.3736, 0.3268



52.3167, 0.3908, 0.3264



57.4101, 0.3659, 0.3638



14.3752, 0.3288, 0.3283



9.5364, 0.6366, 0.3281

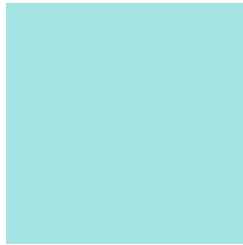


0.7073, 0.6271, 0.3228



# Previews

## White Background



This preview shows how the Yxy color 68.7643, 0.2725, 0.3313 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

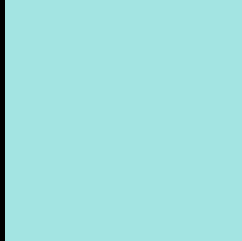
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.7643, 0.2725, 0.3313 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

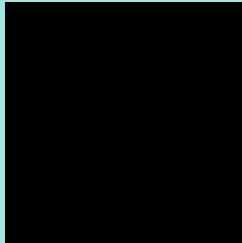
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 68.7643, 0.2725, 0.3313**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.7643, 0.2725, 0.3313.

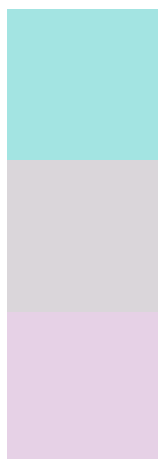


This preview shows how white text looks on a background with the Yxy color 68.7643, 0.2725, 0.3313.

# 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

68.7643, 0.2725, 0.3313

### Protanopia

68.0605, 0.3129, 0.3246

### Deuteranopia

68.1371, 0.3138, 0.3067



## Tritanopia

68.5370, 0.2654, 0.3080

# Trichromacy



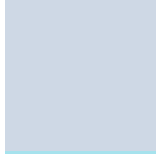
## Original Color

68.7643, 0.2725, 0.3313



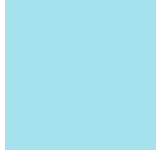
## Protanomaly

67.8893, 0.2968, 0.3267



## Deuteranomaly

67.8907, 0.2971, 0.3145



## Tritanomaly

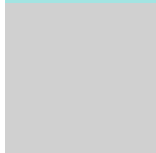
68.6141, 0.2681, 0.3160

# Monochromacy



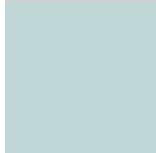
## Original Color

68.7643, 0.2725, 0.3313



## Achromatopsia

63.0757, 0.3127, 0.3290



## Achromatomaly

64.7136, 0.2964, 0.3290

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.7643, 0.2725, 0.3313 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(163, 228, 226)` looks like.

```
.text, #text, p{  
    color:rgb(163, 228, 226)  
}
```

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(163, 228, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 228, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 68.7643, 0.2725, 0.3313 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(163, 228, 226) }
```

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

```
.border{ border-color:rgb(163, 228, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 228, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 228, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 228, 226);  
box-shadow:4px 4px 4px 4px rgb(163, 228,  
226) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.7643, 0.2725, 0.3313 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 228, 226) }
```

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

```
.background{ background-color: rgb(163,  
228, 226) }
```

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