

# Converting Colors

$Y_{xy}(68.4900, 0.2628, 0.3772)$

Have a look what the booklet for  
Yxy(68.4900, 0.2628, 0.3772)  
contains.

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# Color

**Yxy(68.3159, 0.2628, 0.3768)**

# Conversions

## Conversions Part 1

Format	Color
Hex	72EDC8
RGB	114, 237, 200
RGB Percent	45%, 93%, 78%
CMY	0.5531, 0.0706, 0.2155
CMYK	0.52, 0.00, 0.16, 0.07
HSL	162°, 77%, 69%
HSV	162°, 52%, 93%
XYZ	47.6471, 68.3159, 65.3425
YIQ	196.0050, -61.4310, -37.5830

# Conversions

## Conversions Part 2

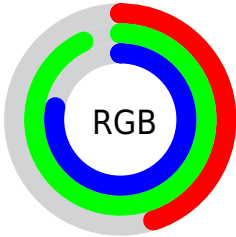
Format	Color
<b>RYB</b>	114, 186, 237
Decimal	7531976
CIELab	86.16, -43.17, 7.45
CIELCh	86, 43.807, 170.211
Yxy	68.3159, 0.2628, 0.3768
Android (android.graphics.Color)	4285722056 (0xFF72EDC8)
YUV	196.0050, 1.9695, -71.9184
Hunter-Lab	82.6534, -41.7439, 10.9851

# Details

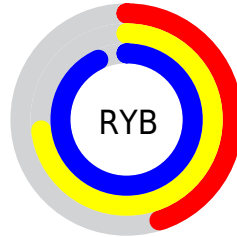
The Yxy color **68.3159, 0.2628, 0.3768** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **32.2600, 0.4161, 0.2886**, and the grayscale version is **55.2156, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.6242, 0.2666, 0.3289**, and **35.3708, 0.2504, 0.3888** is the 20% darker color. If you saturate the color by 10%, you get **66.6055, 0.2571, 0.3880**, and if you desaturate by 10%, it is **70.4588, 0.2702, 0.3661**.

# Distribution



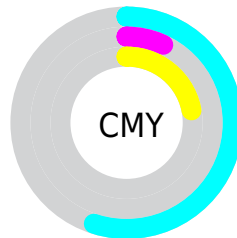
- Red (45%)
- Green (93%)
- Blue (78%)



- Red (45%)
- Yellow (73%)
- Blue (93%)



- Cyan (52%)
- Magenta (0%)
- Yellow (16%)
- Black (7%)




- Cyan (55%)
- Magenta (7%)
- Yellow (22%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.3159, 0.2628, 0.3768 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 68.3159, 0.2628, 0.3768 by changing the saturation by 10% instead.




 68.3159, 0.2628,  
0.3768


 68.3159, 0.2628,  
0.3768


454.6145, 0.2864,  
0.3538


 50.1548, 0.2573,  
0.3823


 116.8039, 0.2711,  
0.3686

 35.5364, 0.2505,  
0.3892


 147.8997, 0.2743,  
0.3655

 24.0764, 0.2417,  
0.3981


 184.0757, 0.2770,  
0.3628

 15.3903, 0.2301,  
0.4101

225.7164, 0.2794,  
0.3605

 9.0937, 0.2141,  
0.4271

273.2063, 0.2815,  
0.3585

 4.8024, 0.1908,  
0.4528

326.9297, 0.2833,

 2.1318, 0.1510,

0.3568

0.4975

387.2709, 0.2849,  
0.3552

0.6824, 0.0000,  
0.7543

0.0000, 0.0000,  
0.0000

68.3159, 0.2628,  
0.3768

68.3159, 0.2628,  
0.3768

66.6055, 0.2571,  
0.3880

70.4588, 0.2702,  
0.3661

65.2868, 0.2533,  
0.3994


73.0554, 0.2789,  
0.3561


64.3248, 0.2516,  
0.4110

76.1349, 0.2888,  
0.3467

63.6744, 0.2518,  
0.4224

79.7219, 0.2994,  
0.3382

 63.3190, 0.2532,  
0.4316

 83.8392, 0.3105,  
0.3304

 88.2892, 0.3211,  
0.3234

 88.7272, 0.3167,  
0.3166

 89.0527, 0.3135,  
0.3117

# Harmonies

## Analogous

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



68.3159, 0.3125, 0.4174



68.3159, 0.2628, 0.3768



68.3159, 0.2283, 0.3223

# Triad

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



68.3159, 0.2628, 0.3768



68.3159, 0.2569, 0.2442



68.3159, 0.4205, 0.3676

# Complementary

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



68.3159, 0.2628, 0.3768



32.2600, 0.4161, 0.2886

# 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.



68.3159, 0.4041, 0.3253



68.3159, 0.2628, 0.3768



68.3159, 0.3054, 0.2576

# Square

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



68.3159, 0.2628, 0.3768



68.3159, 0.2255, 0.2497



68.3159, 0.3604, 0.2864



68.3159, 0.4050, 0.4052

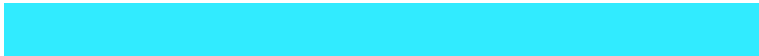


# Rectangle

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



68.3159, 0.2628, 0.3768



68.3159, 0.2172, 0.2897



68.3159, 0.3604, 0.2864



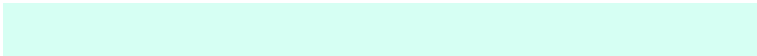
68.3159, 0.4187, 0.3536

# Sweetspot

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



68.3186, 0.2628, 0.3768



92.3019, 0.2949, 0.3416



68.5506, 0.3278, 0.4838



19.5696, 0.2927, 0.3434



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.



68.3186, 0.2628, 0.3768



78.5858, 0.2570, 0.3883



58.0081, 0.2400, 0.3001



17.0403, 0.3021, 0.3362



34.5916, 0.2527, 0.4297



2.7331, 0.2483, 0.4140



# Inverse Universe

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



32.2600, 0.4161, 0.2886



31.8166, 0.4499, 0.2831



36.9712, 0.4487, 0.3542



15.1285, 0.3246, 0.3219



10.0998, 0.5758, 0.2945

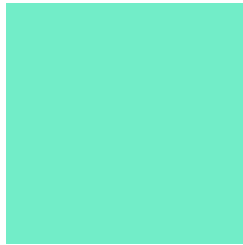


0.8095, 0.5364, 0.2729



# Previews

## White Background



This preview shows how the Yxy color 68.3159, 0.2628, 0.3768 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

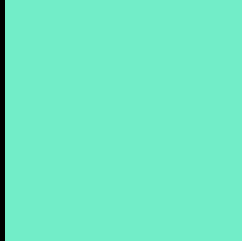
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.3159, 0.2628, 0.3768 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

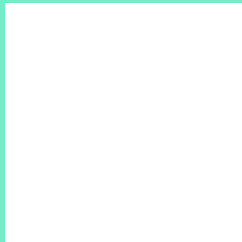
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 68.3159, 0.2628, 0.3768**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.3159, 0.2628, 0.3768.

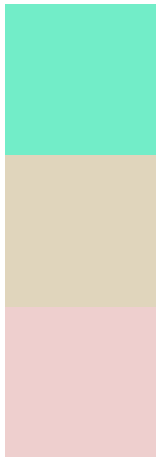


This preview shows how white text looks on a background with the Yxy color 68.3159, 0.2628, 0.3768.

# 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

68.3159, 0.2628, 0.3768

### Protanopia

67.0666, 0.3386, 0.3570

### Deuteranopia

67.2590, 0.3373, 0.3301



## Tritanopia

68.1003, 0.2448, 0.3061

# Trichromacy



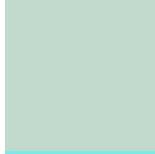
## Original Color

68.3159, 0.2628, 0.3768



## Protanomaly

66.2387, 0.3055, 0.3652



## Deuteranomaly

65.8399, 0.3041, 0.3455



## Tritanomaly

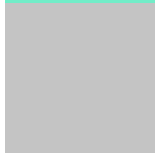
68.3324, 0.2515, 0.3313

# Monochromacy



## Original Color

68.3159, 0.2628, 0.3768



## Achromatopsia

55.2011, 0.3127, 0.3290



## Achromatomaly

58.7267, 0.2898, 0.3467

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.3159, 0.2628, 0.3768 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(114, 237, 200)` looks like.

```
.text, #text, p{  
    color:rgb(114, 237, 200)  
}
```

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(114, 237, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 237, 200) }
```

## Border

The CSS property to change the border of an element to Yxy 68.3159, 0.2628, 0.3768 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(114, 237, 200) }
```

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

```
.border{ border-color:rgb(114, 237, 200) }
```

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

Here you see how a box with a 4 pixel `rgb(114, 237, 200)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(114, 237, 200); -webkit-box-  
shadow:4px 4px 4px 4px rgb(114, 237, 200);  
box-shadow:4px 4px 4px 4px rgb(114, 237,  
200) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.3159, 0.2628, 0.3768 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 237, 200) }
```

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

```
.background{ background-color: rgb(114,  
237, 200) }
```

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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