

# Converting Colors

$Y_{xy}(68.1271, 0.2520, 0.3657)$

Have a look what the booklet for  
Yxy(68.1271, 0.2520, 0.3657)  
contains.

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# Color

**Yxy(68.2939, 0.2523, 0.3665)**

# Conversions

## Conversions Part 1

Format	Color
Hex	61EED1
RGB	97, 238, 209
RGB Percent	38%, 93%, 82%
CMY	0.6196, 0.0667, 0.1803
CMYK	0.59, 0.00, 0.12, 0.07
HSL	168°, 81%, 66%
HSV	168°, 59%, 93%
XYZ	47.0138, 68.2939, 71.0331
YIQ	192.5350, -74.7270, -38.9110

# Conversions

## Conversions Part 2

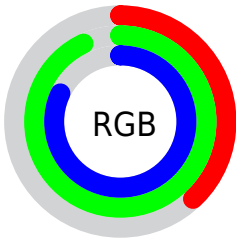
Format	Color
<a href="#">RYB</a>	<a href="#">97, 176, 238</a>
Decimal	<a href="#">6418129</a>
CIELab	<a href="#">86.15, -44.89, 2.67</a>
CIELCh	<a href="#">86, 44.968, 176.600</a>
Yxy	<a href="#">68.2939, 0.2523, 0.3665</a>
Android (android.graphics.Color)	<a href="#">4284608209 (0xFF61EED1)</a>
YUV	<a href="#">192.5350, 8.1172, -83.7842</a>
Hunter-Lab	<a href="#">82.6401, -43.0720, 6.8855</a>

# Details

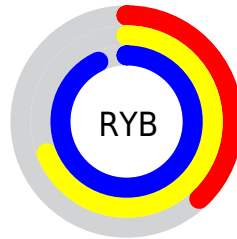
The Yxy color **68.2939, 0.2523, 0.3665** is a light color, and the websafe version is hex **66FFCC**. A complement of this color would be **28.2336, 0.4585, 0.2990**, and the grayscale version is **53.0277, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.1109, 0.2601, 0.3288**, and **35.4208, 0.2375, 0.3747** is the 20% darker color. If you saturate the color by 10%, you get **66.9407, 0.2472, 0.3740**, and if you desaturate by 10%, it is **70.0519, 0.2592, 0.3592**.

# Distribution



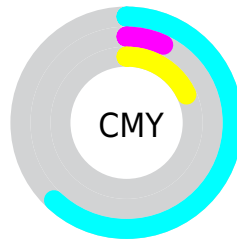
- Red (38%)
- Green (93%)
- Blue (82%)



- Red (38%)
- Yellow (69%)
- Blue (93%)



- Cyan (59%)
- Magenta (0%)
- Yellow (12%)
- Black (7%)




- Cyan (62%)
- Magenta (7%)
- Yellow (18%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.2939, 0.2523, 0.3665 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 68.2939, 0.2523, 0.3665 by changing the saturation by 10% instead.




 68.2939, 0.2523,  
0.3665


 68.2939, 0.2523,  
0.3665


454.5366, 0.2805,  
0.3488


 50.1369, 0.2458,  
0.3706


 116.7725, 0.2621,  
0.3603


 35.5222, 0.2378,  
0.3757


 147.8628, 0.2659,  
0.3579

 24.0654, 0.2276,  
0.3823


 184.0331, 0.2692,  
0.3559

 15.3821, 0.2144,  
0.3910

 225.6676, 0.2721,  
0.3541

 9.0880, 0.1963,  
0.4029

273.1509, 0.2746,  
0.3525

 4.7986, 0.1705,  
0.4203

326.8672, 0.2768,

 2.1296, 0.1276,

0.3511

0.4499

387.2010, 0.2787,  
0.3499

0.6812, 0.0000,  
0.5509

0.0000, 0.0000,  
0.0000

68.2939, 0.2523,  
0.3665

68.2939, 0.2523,  
0.3665

66.9407, 0.2472,  
0.3740

70.0519, 0.2592,  
0.3592

65.9480, 0.2442,  
0.3816


72.2386, 0.2679,  
0.3522


65.2754, 0.2431,  
0.3892

74.8853, 0.2779,  
0.3456


64.8558, 0.2436,  
0.3967


78.0181, 0.2891,  
0.3394

 64.8281, 0.2437,  
0.3972

 81.6611, 0.3011,  
0.3338

 85.8370, 0.3137,  
0.3286

 88.8982, 0.3208,  
0.3239

 89.1982, 0.3177,  
0.3192

 89.5062, 0.3147,  
0.3145

# Harmonies

## Analogous

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



68.2939, 0.3008, 0.4134



68.2939, 0.2523, 0.3665



68.2939, 0.2215, 0.3106

# Triad

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



68.2939, 0.2523, 0.3665



68.2939, 0.2648, 0.2436



68.2939, 0.4226, 0.3773

# Complementary

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



68.2939, 0.2523, 0.3665



28.2336, 0.4585, 0.2990

# 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.



68.2939, 0.4129, 0.3342



68.2939, 0.2523, 0.3665



68.2939, 0.3172, 0.2611

# Square

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



68.2939, 0.2523, 0.3665



68.2939, 0.2285, 0.2448



68.2939, 0.3729, 0.2932



68.2939, 0.4002, 0.4135



# Rectangle

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



68.2939, 0.2523, 0.3665



68.2939, 0.2135, 0.2795



68.2939, 0.3729, 0.2932



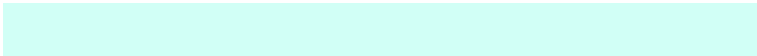
68.2939, 0.4231, 0.3632

# Sweetspot

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



68.2966, 0.2523, 0.3665



91.7169, 0.2905, 0.3387



66.5686, 0.3195, 0.5117



19.3848, 0.2871, 0.3405



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.



68.2966, 0.2523, 0.3665



78.0241, 0.2465, 0.3755



49.1271, 0.2280, 0.2761



17.8700, 0.3008, 0.3339



36.1857, 0.2434, 0.3961



3.0242, 0.2406, 0.3861



# Inverse Universe

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



28.2336, 0.4585, 0.2990



27.3024, 0.5074, 0.2975



36.9186, 0.4670, 0.3719



15.8120, 0.3261, 0.3242



10.2793, 0.6059, 0.3111

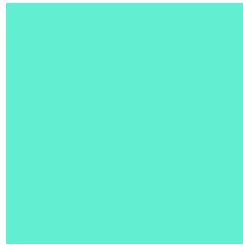


0.8691, 0.5704, 0.2916



# Previews

## White Background



This preview shows how the Yxy color 68.2939, 0.2523, 0.3665 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

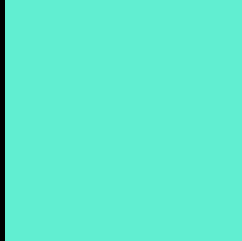
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.2939, 0.2523, 0.3665 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

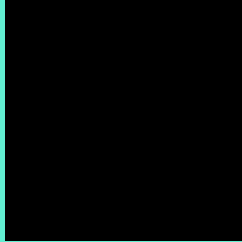
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 68.2939, 0.2523, 0.3665**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.2939, 0.2523, 0.3665.

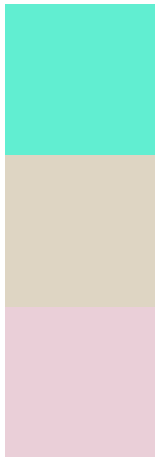


This preview shows how white text looks on a background with the Yxy color 68.2939, 0.2523, 0.3665.

# 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

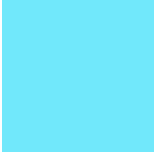
68.2939, 0.2523, 0.3665

### Protanopia

67.0582, 0.3321, 0.3492

### Deuteranopia

67.0759, 0.3268, 0.3194



## **Tritanopia**

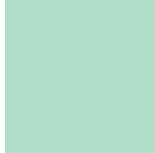
68.1890, 0.2381, 0.3059

# Trichromacy



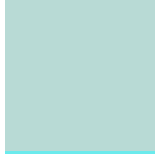
## Original Color

68.2939, 0.2523, 0.3665



## Protanomaly

65.7598, 0.2957, 0.3557



## Deuteranomaly

65.1373, 0.2923, 0.3349



## Tritanomaly

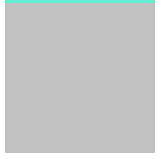
68.0276, 0.2428, 0.3263

# Monochromacy



## Original Color

68.2939, 0.2523, 0.3665



## Achromatopsia

53.3276, 0.3127, 0.3290



## Achromatomaly

56.9936, 0.2831, 0.3418

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.2939, 0.2523, 0.3665 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(97, 238, 209)` looks like.

```
.text, #text, p{  
    color:rgb(97, 238, 209)  
}
```

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(97, 238, 209) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(97, 238, 209) }
```

## Border

The CSS property to change the border of an element to Yxy 68.2939, 0.2523, 0.3665 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(97, 238, 209) }
```

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

```
.border{ border-color:rgb(97, 238, 209) }
```

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

Here you see how a box with a 4 pixel rgb(97, 238, 209) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(97, 238, 209); -webkit-box-  
shadow:4px 4px 4px 4px rgb(97, 238, 209);  
box-shadow:4px 4px 4px 4px rgb(97, 238,  
209) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.2939, 0.2523, 0.3665 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(97, 238, 209) }
```

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

```
.background{ background-color: rgb(97, 238,  
209) }
```

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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