

# Converting Colors

$Y_{xy}(68.0730, 0.2266, 0.3055)$

Have a look what the booklet for  
Yxy(68.0730, 0.2266, 0.3055)  
contains.

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# Color

**Yxy(68.0683, 0.2266, 0.3055)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4BEBFE
RGB	75, 235, 254
RGB Percent	29%, 92%, 100%
CMY	0.7067, 0.0784, 0.0039
CMYK	0.71, 0.07, 0.00, 0.00
HSL	186°, 99%, 64%
HSV	186°, 71%, 100%
XYZ	50.4886, 68.0683, 104.2526
YIQ	189.3260, -101.4590, -28.0110

# Conversions

## Conversions Part 2

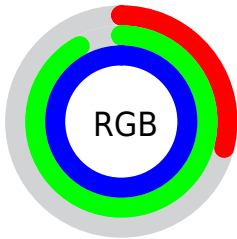
Format	Color
<a href="#">RYB</a>	75, 159, 254
Decimal	4975614
CIELab	86.04, -34.89, -21.19
CIELCh	86, 40.823, 211.272
Yxy	68.0683, 0.2266, 0.3055
Android (android.graphics.Color)	4283165694 (0xFF4BEBFE)
YUV	189.3260, 31.8843, -100.2639
Hunter-Lab	82.5035, -35.1468, -17.1672

# Details

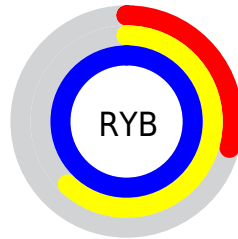
The Yxy color **68.0683, 0.2266, 0.3055** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **29.5479, 0.5391, 0.3453**, and the grayscale version is **50.9134, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.8510, 0.2545, 0.3288**, and **36.2714, 0.2167, 0.3000** is the 20% darker color. If you saturate the color by 10%, you get **65.7156, 0.2210, 0.3018**, and if you desaturate by 10%, it is **70.8575, 0.2342, 0.3092**.

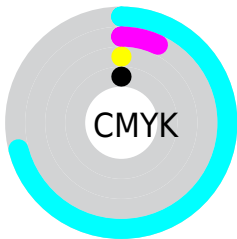
# Distribution



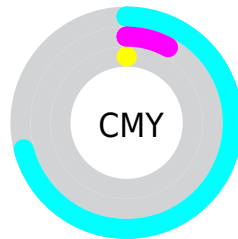
- Red (29%)
- Green (92%)
- Blue (100%)



- Red (29%)
- Yellow (62%)
- Blue (100%)



- Cyan (71%)
- Magenta (7%)
- Yellow (0%)
- Black (0%)




- Cyan (71%)
- Magenta (8%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.0683, 0.2266, 0.3055 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 68.0683, 0.2266, 0.3055 by changing the saturation by 10% instead.



 68.0683, 0.2266,  
0.3055

 68.0683, 0.2266,  
0.3055


453.7380, 0.2654,  
0.3178

 49.9533, 0.2181,  
0.3024


 116.4498, 0.2398,  
0.3100


 35.3763, 0.2077,  
0.2984


 147.4852, 0.2450,  
0.3117

 23.9529, 0.1949,  
0.2931


 183.5961, 0.2496,  
0.3131

 15.2987, 0.1787,  
0.2859

 225.1670, 0.2535,  
0.3143

 9.0293, 0.1577,  
0.2755

272.5822, 0.2570,  
0.3154

 4.7603, 0.1299,  
0.2597

326.2262, 0.2601,

 2.1073, 0.0927,

0.3163

0.2336

386.4833, 0.2629,  
0.3171

0.6687, 0.0000,  
0.1915

0.0000, 0.0000,  
0.0000

68.0683, 0.2266,  
0.3055

68.0683, 0.2266,  
0.3055

65.7156, 0.2210,  
0.3018

70.8575, 0.2342,  
0.3092

63.7398, 0.2173,  
0.2981

74.1192, 0.2437,  
0.3129

62.1430, 0.2152,  
0.2946

77.8940, 0.2549,  
0.3165

82.2160, 0.2676,  
0.3199

87.1161, 0.2816,  
0.3231

92.6231, 0.2964,  
0.3261

98.7635, 0.3119,  
0.3289

99.9366, 0.3133,  
0.3299

# Harmonies

## Analogous

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



68.0683, 0.2521, 0.3552



68.0683, 0.2266, 0.3055



68.0683, 0.2224, 0.2683

# Triad

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



68.0683, 0.2266, 0.3055



68.0683, 0.3251, 0.2705



68.0683, 0.3875, 0.4102

# Complementary

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



68.0683, 0.2266, 0.3055



29.5479, 0.5391, 0.3453

# 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.



68.0683, 0.4114, 0.3797



68.0683, 0.2266, 0.3055



68.0683, 0.3745, 0.3019

# Square

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



68.0683, 0.2266, 0.3055



68.0683, 0.2758, 0.2520



68.0683, 0.4071, 0.3406



68.0683, 0.3443, 0.4201

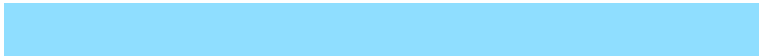


# Rectangle

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



68.0683, 0.2266, 0.3055



68.0683, 0.2315, 0.2542



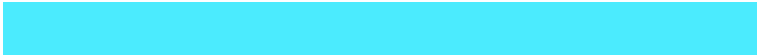
68.0683, 0.4071, 0.3406



68.0683, 0.3981, 0.4017

# Sweetspot

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



68.0708, 0.2266, 0.3055



87.6518, 0.2809, 0.3230



73.1648, 0.2968, 0.5390



18.4576, 0.2770, 0.3221



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

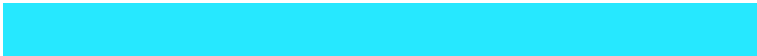


# Same Dimension

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



68.0708, 0.2266, 0.3055



65.3644, 0.2191, 0.3001



29.3525, 0.1967, 0.1854



20.1330, 0.2980, 0.3264



32.8903, 0.2154, 0.2952



3.2929, 0.2165, 0.2994



# Inverse Universe

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



32.0777, 0.3391, 0.1863



28.4899, 0.3448, 0.1738



55.1690, 0.4595, 0.4301



18.2652, 0.3154, 0.3080



14.0483, 0.3496, 0.1700

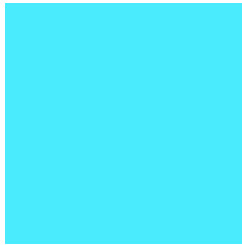


1.3770, 0.3459, 0.1679



# Previews

## White Background



This preview shows how the Yxy color 68.0683, 0.2266, 0.3055 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

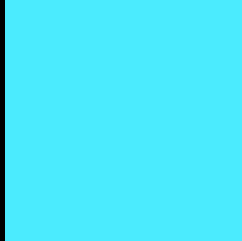
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.0683, 0.2266, 0.3055 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

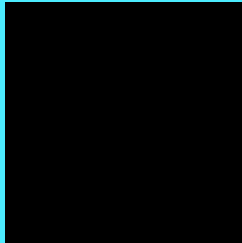
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 68.0683, 0.2266, 0.3055**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.0683, 0.2266, 0.3055.

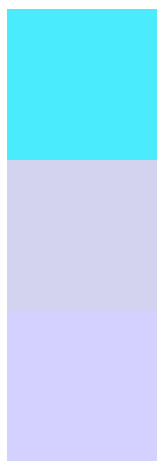


This preview shows how white text looks on a background with the Yxy color 68.0683, 0.2266, 0.3055.

# 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

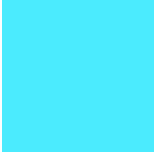
68.0683, 0.2266, 0.3055

### Protanopia

67.0206, 0.2935, 0.2994

### Deuteranopia

66.6698, 0.2842, 0.2798



## Tritanopia

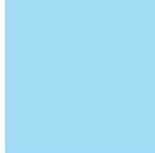
68.0683, 0.2266, 0.3055

# Trichromacy



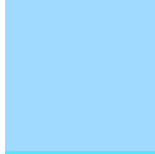
## Original Color

68.0683, 0.2266, 0.3055



## Protanomaly

65.2951, 0.2608, 0.3007



## Deuteranomaly

64.9399, 0.2549, 0.2863



## Tritanomaly

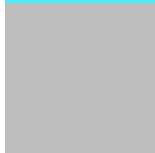
68.0683, 0.2266, 0.3055

# Monochromacy



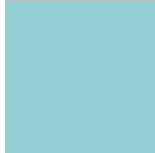
## Original Color

68.0683, 0.2266, 0.3055



## Achromatopsia

50.8881, 0.3127, 0.3290



## Achromatomaly

55.1498, 0.2674, 0.3198

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.0683, 0.2266, 0.3055 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(75, 235, 254)` looks like.

```
.text, #text, p{  
    color:rgb(75, 235, 254)  
}
```

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(75, 235, 254) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(75, 235, 254) }
```

## Border

The CSS property to change the border of an element to Yxy 68.0683, 0.2266, 0.3055 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(75, 235, 254) }
```

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

```
.border{ border-color:rgb(75, 235, 254) }
```

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

Here you see how a box with a 4 pixel `rgb(75, 235, 254)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(75, 235, 254); -webkit-box-  
shadow:4px 4px 4px 4px rgb(75, 235, 254);  
box-shadow:4px 4px 4px 4px rgb(75, 235,  
254) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.0683, 0.2266, 0.3055 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(75, 235, 254) }
```

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

```
.background{ background-color: rgb(75, 235,  
254) }
```

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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