

# Converting Colors

$Y_{xy}(68.0144, 0.2256, 0.3043)$

Have a look what the booklet for  
Yxy(68.0144, 0.2256, 0.3043)  
contains.

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# Color

**Yxy(68.0144, 0.2256, 0.3043)**

# Conversions

## Conversions Part 1

| Format      | Color                         |
|-------------|-------------------------------|
| Hex         | 48EBFF                        |
| RGB         | 72, 235, 255                  |
| RGB Percent | 28%, 92%, 100%                |
| CMY         | 0.7180, 0.0784, 0.0000        |
| CMYK        | 0.72, 0.08, 0.00, 0.00        |
| HSL         | 187°, 100%, 64%               |
| HSV         | 187°, 72%, 100%               |
| XYZ         | 50.4241, 68.0144, 105.0725    |
| YIQ         | 188.5430, -103.5680, -28.3360 |

# Conversions

## Conversions Part 2

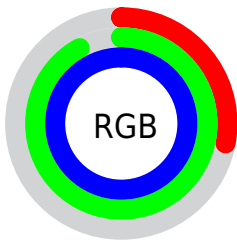
| <b>Format</b>                       | <b>Color</b>                    |
|-------------------------------------|---------------------------------|
| <b>R<sub>YB</sub></b>               | 72, 158, 255                    |
| Decimal                             | 4779007                         |
| CIE <sub>Lab</sub>                  | 86.01, -34.95, -21.75           |
| CIE <sub>LCh</sub>                  | 86, 41.166, 211.900             |
| Yxy                                 | 68.0144, 0.2256,<br>0.3043      |
| Android<br>(android.graphics.Color) | 4282969087<br>(0xFF48EBFF)      |
| YUV                                 | 188.5430, 32.7633,<br>-102.2082 |
| Hunter-Lab                          | 82.4708, -35.1860,<br>-17.8092  |

# Details

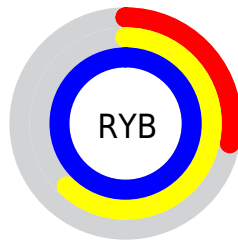
The Yxy color **68.0144, 0.2256, 0.3043** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **29.3609, 0.5442, 0.3457**, and the grayscale version is **50.4549, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.6693, 0.2536, 0.3288**, and **36.3174, 0.2162, 0.2985** is the 20% darker color. If you saturate the color by 10%, you get **65.6517, 0.2202, 0.3005**, and if you desaturate by 10%, it is **70.8129, 0.2330, 0.3082**.

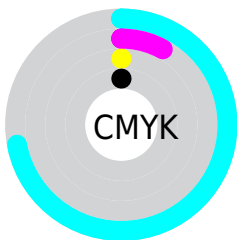
# Distribution



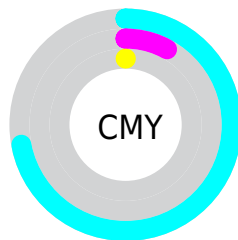
- Red (28%)
- Green (92%)
- Blue (100%)



- Red (28%)
- Yellow (62%)
- Blue (100%)



- Cyan (72%)
- Magenta (8%)
- Yellow (0%)
- Black (0%)




- Cyan (72%)
- Magenta (8%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.0144, 0.2256, 0.3043 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 68.0144, 0.2256, 0.3043 by changing the saturation by 10% instead.




 68.0144, 0.2256,  
0.3043

 68.0144, 0.2256,  
0.3043


453.5470, 0.2649,  
0.3172


 49.9095, 0.2170,  
0.3011


 116.3727, 0.2390,  
0.3090

 35.3415, 0.2065,  
0.2969


 147.3949, 0.2442,  
0.3108

 23.9260, 0.1936,  
0.2914


 183.4916, 0.2488,  
0.3123

 15.2788, 0.1772,  
0.2839

 225.0473, 0.2528,  
0.3135

 9.0153, 0.1562,  
0.2732

272.4463, 0.2564,  
0.3146

 4.7511, 0.1283,  
0.2568

326.0729, 0.2595,

 2.1020, 0.0911,

0.3156

0.2301

386.3117, 0.2623,  
0.3164

0.6657, 0.0000,  
0.1869

0.0000, 0.0000,  
0.0000

68.0144, 0.2256,  
0.3043

68.0144, 0.2256,  
0.3043

65.6517, 0.2202,  
0.3005

70.8129, 0.2330,  
0.3082

63.6632, 0.2167,  
0.2967

74.0845, 0.2423,  
0.3119

62.2470, 0.2149,  
0.2936

77.8707, 0.2533,  
0.3156

82.2065, 0.2659,  
0.3192

87.1234, 0.2797,  
0.3225

92.6507, 0.2945,  
0.3256

98.8154, 0.3099,  
0.3285

99.9997, 0.3127,  
0.3290

# Harmonies

## Analogous

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



68.0144, 0.2508, 0.3543



68.0144, 0.2256, 0.3043



68.0144, 0.2218, 0.2672

# Triad

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



68.0144, 0.2256, 0.3043



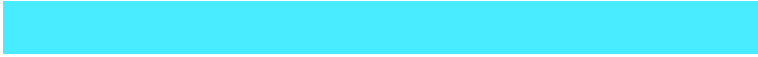
68.0144, 0.3263, 0.2706



68.0144, 0.3873, 0.4113

# Complementary

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



68.0144, 0.2256, 0.3043



29.3609, 0.5442, 0.3457

# 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.



68.0144, 0.4120, 0.3808



68.0144, 0.2256, 0.3043



68.0144, 0.3759, 0.3024

# Square

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



68.0144, 0.2256, 0.3043



68.0144, 0.2765, 0.2516



68.0144, 0.4083, 0.3415

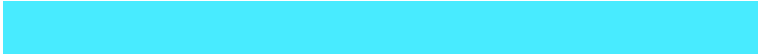


68.0144, 0.3435, 0.4208

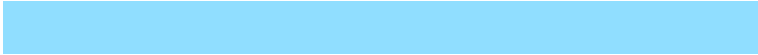


# Rectangle

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



68.0144, 0.2256, 0.3043



68.0144, 0.2313, 0.2533



68.0144, 0.4083, 0.3415



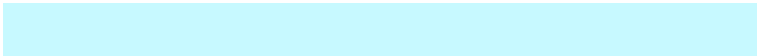
68.0144, 0.3982, 0.4028

# Sweetspot

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



68.0169, 0.2256, 0.3043



87.0237, 0.2794, 0.3225



73.6326, 0.2968, 0.5425



18.3293, 0.2756, 0.3216



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

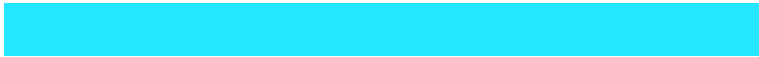


# Same Dimension

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



68.0169, 0.2256, 0.3043



64.7774, 0.2185, 0.2989



28.8879, 0.1950, 0.1825



20.1227, 0.2980, 0.3263



32.6631, 0.2151, 0.2942



3.2730, 0.2163, 0.2985



# Inverse Universe

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



31.8804, 0.3402, 0.1852



28.2768, 0.3460, 0.1738



55.0831, 0.4623, 0.4310



18.2642, 0.3155, 0.3081



14.0253, 0.3506, 0.1705

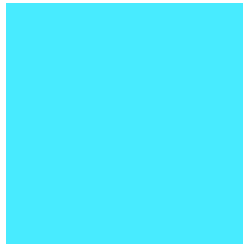


1.3750, 0.3467, 0.1684



# Previews

## White Background



This preview shows how the Yxy color 68.0144, 0.2256, 0.3043 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

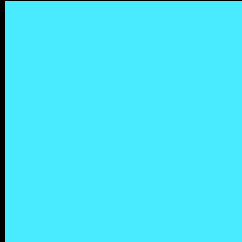
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.0144, 0.2256, 0.3043 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

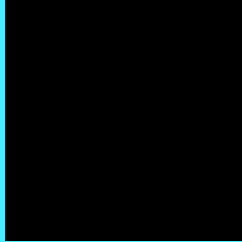
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 68.0144, 0.2256, 0.3043**

## Background



This preview shows how black text looks on a background with the Yxy color 68.0144, 0.2256, 0.3043.

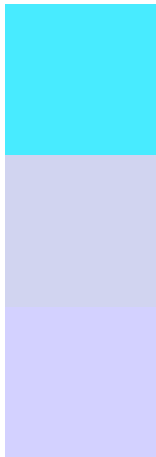


This preview shows how white text looks on a background with the Yxy color 68.0144, 0.2256, 0.3043.

# 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

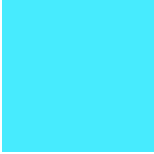
68.0144, 0.2256, 0.3043

### Protanopia

66.9335, 0.2922, 0.2983

### Deuteranopia

66.6698, 0.2842, 0.2798



## Tritanopia

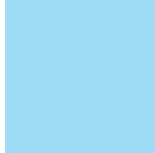
67.9120, 0.2258, 0.3054

# Trichromacy



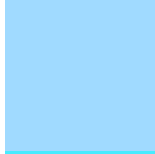
## Original Color

68.0144, 0.2256, 0.3043



## Protanomaly

65.1499, 0.2592, 0.2995



## Deuteranomaly

64.8364, 0.2543, 0.2862



## Tritanomaly

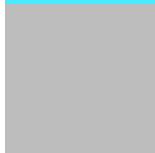
67.9120, 0.2258, 0.3054

# Monochromacy



## Original Color

68.0144, 0.2256, 0.3043



## Achromatopsia

50.8881, 0.3127, 0.3290



## Achromatomaly

55.0577, 0.2668, 0.3198

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.0144, 0.2256, 0.3043 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(72, 235, 255)` looks like.

```
.text, #text, p{  
    color:rgb(72, 235, 255)  
}
```

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(72, 235, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 235, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 68.0144, 0.2256, 0.3043 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(72, 235, 255) }
```

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

```
.border{ border-color:rgb(72, 235, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 235, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 235, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 235, 255);  
box-shadow:4px 4px 4px 4px rgb(72, 235,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.0144, 0.2256, 0.3043 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 235, 255) }
```

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

```
.background{ background-color: rgb(72, 235,  
255) }
```

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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