

# Converting Colors

$Yxy(64.0658, 0.2333, 0.3016)$

Have a look what the booklet for  
Yxy(64.0658, 0.2333, 0.3016)  
contains.

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# Color

**Yxy(63.8793, 0.2332, 0.3016)**

# Conversions

## Conversions Part 1

Format	Color
Hex	64E2F8
RGB	100, 226, 248
RGB Percent	39%, 89%, 97%
CMY	0.6079, 0.1137, 0.0275
CMYK	0.60, 0.09, 0.00, 0.03
HSL	189°, 91%, 68%
HSV	189°, 60%, 97%
XYZ	49.3921, 63.8793, 98.5300
YIQ	190.8340, -82.1580, -19.8700

# Conversions

## Conversions Part 2

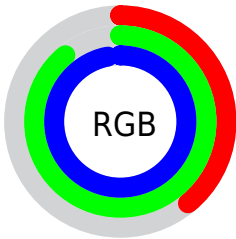
Format	Color
R <sub>Y</sub> B	100, 168, 248
Decimal	6611704
CIE Lab	83.90, -28.63, -21.20
CIE LCh	84, 35.627, 216.521
Yxy	63.8793, 0.2332, 0.3016
Android (android.graphics.Color)	4284801784 (0xFF64E2F8)
YUV	190.8340, 28.1828, -79.6614
Hunter-Lab	79.9245, -29.5578, -17.1448

# Details

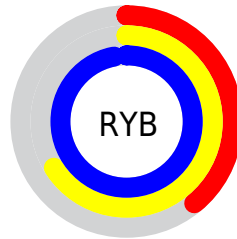
The Yxy color **63.8793, 0.2332, 0.3016** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **34.7866, 0.4845, 0.3514**, and the grayscale version is **51.8663, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.5265, 0.2619, 0.3289**, and **32.5746, 0.2148, 0.2924** is the 20% darker color. If you saturate the color by 10%, you get **60.6943, 0.2249, 0.2963**, and if you desaturate by 10%, it is **67.5423, 0.2434, 0.3068**.

# Distribution



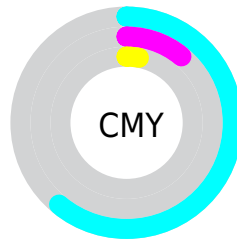
- Red (39%)
- Green (89%)
- Blue (97%)



- Red (39%)
- Yellow (66%)
- Blue (97%)



- Cyan (60%)
- Magenta (9%)
- Yellow (0%)
- Black (3%)




- Cyan (61%)
- Magenta (11%)
- Yellow (3%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.8793, 0.2332, 0.3016 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 63.8793, 0.2332, 0.3016 by changing the saturation by 10% instead.




 63.8793, 0.2332,  
0.3016

 63.8793, 0.2332,  
0.3016


438.7536, 0.2696,  
0.3156


 46.5529, 0.2251,  
0.2981


 110.4371, 0.2457,  
0.3067

 32.6824, 0.2151,  
0.2936


 140.4373, 0.2506,  
0.3086

 21.8832, 0.2027,  
0.2878


 175.4309, 0.2548,  
0.3102

 13.7711, 0.1869,  
0.2798

215.8023, 0.2585,  
0.3116

 7.9616, 0.1661,  
0.2683

261.9359, 0.2618,  
0.3128

 4.0704, 0.1380,  
0.2507

314.2160, 0.2647,

 1.7130, 0.0990,

0.3139

0.2219

373.0271, 0.2673,  
0.3148

0.4321, 0.0000,  
0.1565

0.0000, 0.0000,  
0.0000

63.8793, 0.2332,  
0.3016

63.8793, 0.2332,  
0.3016

60.6943, 0.2249,  
0.2963

67.5423, 0.2434,  
0.3068

57.9395, 0.2185,  
0.2909

71.7118, 0.2552,  
0.3119

55.5688, 0.2141,  
0.2856

76.4221, 0.2684,  
0.3166

53.5049, 0.2113,  
0.2804

81.7025, 0.2827,  
0.3211

■ 53.4424, 0.2112,  
0.2802

■ 87.5800, 0.2977,  
0.3253

■ 94.0797, 0.3132,  
0.3291

■ 97.5304, 0.3170,  
0.3327

■ 99.5571, 0.3168,  
0.3357

# Harmonies

## Analogous

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



63.8793, 0.2532, 0.3446



63.8793, 0.2332, 0.3016



63.8793, 0.2327, 0.2708

# Triad

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



63.8793, 0.2332, 0.3016



63.8793, 0.3321, 0.2805



63.8793, 0.3741, 0.4049

# Complementary

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



63.8793, 0.2332, 0.3016



34.7866, 0.4845, 0.3514

# 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.



63.8793, 0.3988, 0.3807



63.8793, 0.2332, 0.3016



63.8793, 0.3743, 0.3107

# Square

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



63.8793, 0.2332, 0.3016



63.8793, 0.2870, 0.2614



63.8793, 0.3993, 0.3464



63.8793, 0.3337, 0.4085

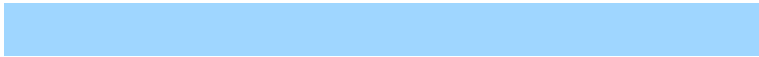


# Rectangle

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



63.8793, 0.2332, 0.3016



63.8793, 0.2433, 0.2599



63.8793, 0.3993, 0.3464



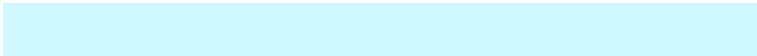
63.8793, 0.3846, 0.3986

# Sweetspot

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



63.8817, 0.2332, 0.3016



88.0361, 0.2852, 0.3219



71.1901, 0.2959, 0.4993



18.4721, 0.2809, 0.3206



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.



63.8817, 0.2332, 0.3016



63.9099, 0.2231, 0.2950



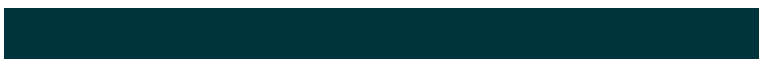
32.6794, 0.2115, 0.2045



19.1432, 0.2980, 0.3254



29.0344, 0.2114, 0.2811



2.8047, 0.2132, 0.2874



# Inverse Universe

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



34.5573, 0.3409, 0.2067



31.4037, 0.3481, 0.1902



59.3360, 0.4306, 0.4241



17.4776, 0.3161, 0.3090



13.3419, 0.3625, 0.1770

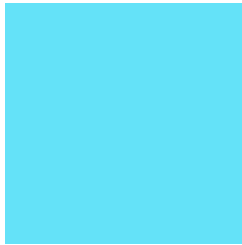


1.2474, 0.3567, 0.1739



# Previews

## White Background



This preview shows how the Yxy color 63.8793, 0.2332, 0.3016 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

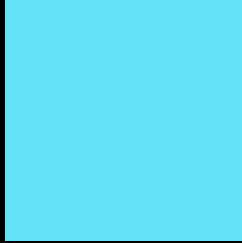
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 63.8793, 0.2332, 0.3016 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

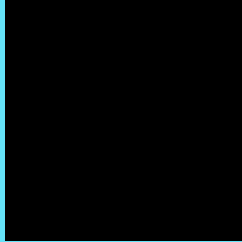
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 63.8793, 0.2332, 0.3016**

## Background



This preview shows how black text looks on a background with the Yxy color 63.8793, 0.2332, 0.3016.

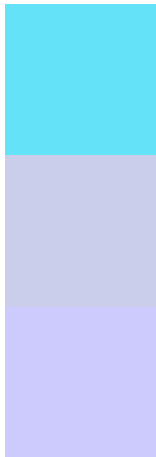


This preview shows how white text looks on a background with the Yxy color 63.8793, 0.2332, 0.3016.

# 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

63.8793, 0.2332, 0.3016

### Protanopia

62.8373, 0.2910, 0.2964

### Deuteranopia

62.7829, 0.2810, 0.2745



## Tritanopia

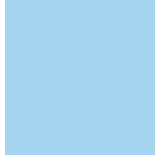
64.1834, 0.2344, 0.3064

# Trichromacy



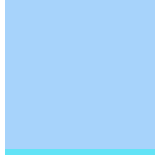
## Original Color

63.8793, 0.2332, 0.3016



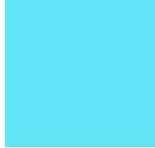
## Protanomaly

61.9868, 0.2647, 0.2970



## Deuteranomaly

61.7691, 0.2591, 0.2825



## Tritanomaly

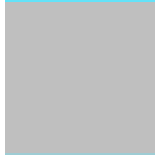
64.2446, 0.2340, 0.3052

# Monochromacy



## Original Color

63.8793, 0.2332, 0.3016



## Achromatopsia

52.0996, 0.3127, 0.3290



## Achromatomaly

55.2083, 0.2747, 0.3187

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.8793, 0.2332, 0.3016 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(100, 226, 248)` looks like.

```
.text, #text, p{  
    color:rgb(100, 226, 248)  
}
```

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(100, 226, 248) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 226, 248) }
```

## Border

The CSS property to change the border of an element to Yxy 63.8793, 0.2332, 0.3016 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(100, 226, 248) }
```

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

```
.border{ border-color:rgb(100, 226, 248) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 226, 248)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 226, 248); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 226, 248);  
box-shadow:4px 4px 4px 4px rgb(100, 226,  
248) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.8793, 0.2332, 0.3016 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 226, 248) }
```

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

```
.background{ background-color: rgb(100,  
226, 248) }
```

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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