

# Converting Colors

$Yxy(64.0658, 0.2312, 0.2935)$

Have a look what the booklet for  
Yxy(64.0658, 0.2312, 0.2935)  
contains.

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# Color

**Yxy(63.8310, 0.2312, 0.2934)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66E1FE
RGB	102, 225, 254
RGB Percent	40%, 88%, 100%
CMY	0.5997, 0.1177, 0.0040
CMYK	0.60, 0.11, 0.00, 0.00
HSL	191°, 99%, 70%
HSV	191°, 60%, 100%
XYZ	50.2990, 63.8310, 103.4262
YIQ	191.5290, -82.6170, -17.0570

# Conversions

## Conversions Part 2

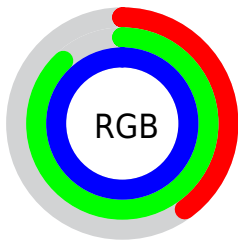
Format	Color
<a href="#">RYB</a>	<a href="#">102, 170, 254</a>
Decimal	<a href="#">6742526</a>
CIELab	<a href="#">83.88, -26.08, -24.40</a>
CIElCh	<a href="#">84, 35.711, 223.095</a>
Yxy	<a href="#">63.8310, 0.2312, 0.2934</a>
Android (android.graphics.Color)	<a href="#">4284932606 (0xFF66E1FE)</a>
YUV	<a href="#">191.5290, 30.7982, -78.5169</a>
Hunter-Lab	<a href="#">79.8943, -27.4369, -20.8272</a>

# Details

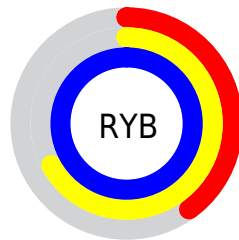
The Yxy color **63.8310, 0.2312, 0.2934** is a light color, and the websafe version is hex **33CCFF**. A complement of this color would be **38.2831, 0.4806, 0.3579**, and the grayscale version is **52.2899, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.7393, 0.2628, 0.3289**, and **32.4652, 0.2126, 0.2832** is the 20% darker color. If you saturate the color by 10%, you get **59.9844, 0.2223, 0.2864**, and if you desaturate by 10%, it is **68.2113, 0.2419, 0.3002**.

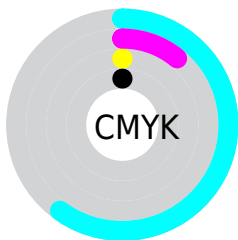
# Distribution



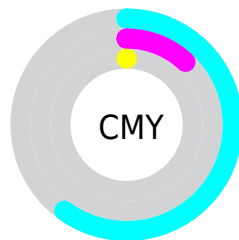
- Red (40%)
- Green (88%)
- Blue (100%)



- Red (40%)
- Yellow (67%)
- Blue (100%)



- Cyan (60%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)




- Cyan (60%)
- Magenta (12%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.8310, 0.2312, 0.2934 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 63.8310, 0.2312, 0.2934 by changing the saturation by 10% instead.




 63.8310, 0.2312,  
0.2934


 63.8310, 0.2312,  
0.2934


438.5791, 0.2684,  
0.3112

 46.5138, 0.2229,  
0.2891

 110.3675, 0.2440,  
0.2998

 32.6515, 0.2128,  
0.2836


 140.3556, 0.2490,  
0.3022

 21.8596, 0.2002,  
0.2764


 175.3362, 0.2533,  
0.3043

 13.7538, 0.1842,  
0.2668

215.6935, 0.2571,  
0.3061

 7.9496, 0.1633,  
0.2533

261.8121, 0.2604,  
0.3076

 4.0627, 0.1353,  
0.2332

314.0763, 0.2634,

 1.7087, 0.0971,

0.3090

0.2014

372.8705, 0.2660,  
0.3101

0.4293, 0.0000,  
0.1351

0.0000, 0.0000,  
0.0000

63.8310, 0.2312,  
0.2934

63.8310, 0.2312,  
0.2934

59.9844, 0.2223,  
0.2864

68.2113, 0.2419,  
0.3002

56.6207, 0.2154,  
0.2794

73.1564, 0.2542,  
0.3068

53.6906, 0.2104,  
0.2724

78.7029, 0.2678,  
0.3130

51.1112, 0.2071,  
0.2655

84.8821, 0.2823,  
0.3188

■ 51.0635, 0.2071,  
0.2654

■ 91.7230, 0.2975,  
0.3242

■ 99.2526, 0.3130,  
0.3291

■ 99.9351, 0.3133,  
0.3300

# Harmonies

## Analogous

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



63.8310, 0.2471, 0.3347



63.8310, 0.2312, 0.2934



63.8310, 0.2351, 0.2661

# Triad

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



63.8310, 0.2312, 0.2934



63.8310, 0.3422, 0.2863



63.8310, 0.3663, 0.4080

# Complementary

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



63.8310, 0.2312, 0.2934



38.2831, 0.4806, 0.3579

# 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.



63.8310, 0.3954, 0.3873



63.8310, 0.2312, 0.2934



63.8310, 0.3819, 0.3182

# Square

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



63.8310, 0.2312, 0.2934



63.8310, 0.2964, 0.2643



63.8310, 0.4017, 0.3543



63.8310, 0.3239, 0.4060

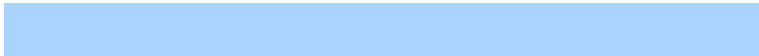


# Rectangle

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



63.8310, 0.2312, 0.2934



63.8310, 0.2484, 0.2578



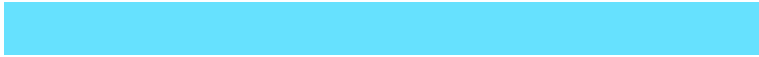
63.8310, 0.4017, 0.3543



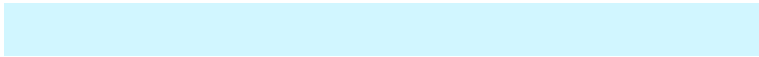
63.8310, 0.3780, 0.4031

# Sweetspot

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



63.8334, 0.2312, 0.2934



86.8471, 0.2850, 0.3198



75.3170, 0.2928, 0.4906



18.1785, 0.2807, 0.3182



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.



63.8334, 0.2312, 0.2934



59.7388, 0.2206, 0.2849



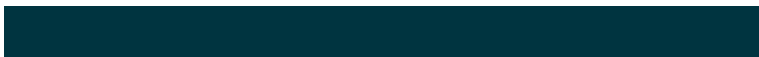
31.8572, 0.2089, 0.1939



19.8574, 0.2980, 0.3244



27.1312, 0.2074, 0.2665



2.7862, 0.2096, 0.2744



# Inverse Universe

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



36.0241, 0.3477, 0.2115



30.9826, 0.3569, 0.1960



66.1179, 0.4259, 0.4312



18.2374, 0.3167, 0.3100



13.4669, 0.3761, 0.1846

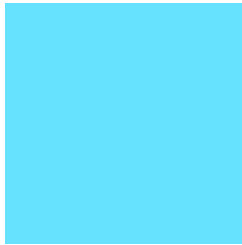


1.3258, 0.3687, 0.1804



# Previews

## White Background



This preview shows how the Yxy color 63.8310, 0.2312, 0.2934 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

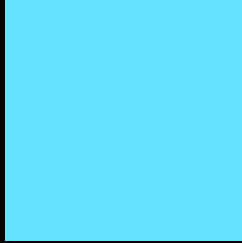
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 63.8310, 0.2312, 0.2934 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

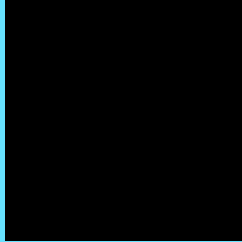
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 63.8310, 0.2312, 0.2934**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.8310, 0.2312, 0.2934.

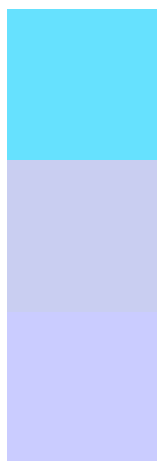


This preview shows how white text looks on a background with the Yxy color 63.8310, 0.2312, 0.2934.

# 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

63.8310, 0.2312, 0.2934

### Protanopia

62.9110, 0.2858, 0.2899

### Deuteranopia

62.9623, 0.2778, 0.2733



## Tritanopia

64.1274, 0.2341, 0.3064

# Trichromacy



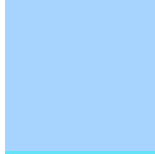
## Original Color

63.8310, 0.2312, 0.2934



## Protanomaly

62.2417, 0.2609, 0.2903



## Deuteranomaly

62.4140, 0.2566, 0.2794



## Tritanomaly

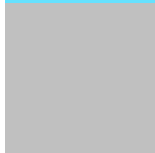
63.8227, 0.2329, 0.3016

# Monochromacy



## Original Color

63.8310, 0.2312, 0.2934



## Achromatopsia

52.7115, 0.3127, 0.3290



## Achromatomaly

55.4630, 0.2735, 0.3150

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.8310, 0.2312, 0.2934 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(102, 225, 254)` looks like.

```
.text, #text, p{  
    color:rgb(102, 225, 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(102, 225, 254) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 225, 254) }
```

## Border

The CSS property to change the border of an element to Yxy 63.8310, 0.2312, 0.2934 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(102, 225, 254) }
```

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

```
.border{ border-color:rgb(102, 225, 254) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 225, 254)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 225, 254); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 225, 254);  
box-shadow:4px 4px 4px 4px rgb(102, 225,  
254) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.8310, 0.2312, 0.2934 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 225, 254) }
```

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

```
.background{ background-color: rgb(102,  
225, 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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