

# Converting Colors

$Yxy(64.5560, 0.2311, 0.2938)$

Have a look what the booklet for  
Yxy(64.5560, 0.2311, 0.2938)  
contains.

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# Color

**Yxy(64.4375, 0.2311, 0.2935)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66E2FF
RGB	102, 226, 255
RGB Percent	40%, 89%, 100%
CMY	0.5994, 0.1138, 0.0000
CMYK	0.60, 0.11, 0.00, 0.00
HSL	191°, 100%, 70%
HSV	191°, 60%, 100%
XYZ	50.7377, 64.4375, 104.3734
YIQ	192.2300, -83.2130, -17.2690

# Conversions

## Conversions Part 2

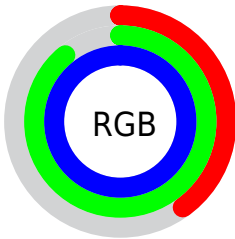
<b>Format</b>	<b>Color</b>
<b>RYB</b>	102, 170, 255
Decimal	6742783
CIELab	84.19, -26.26, -24.45
CIELCh	84, 35.885, 222.955
Yxy	64.4375, 0.2311, 0.2935
Android (android.graphics.Color)	4284932863 (0xFF66E2FF)
YUV	192.2300, 30.9456, -79.1317
Hunter-Lab	80.2730, -27.6542, -20.8996

# Details

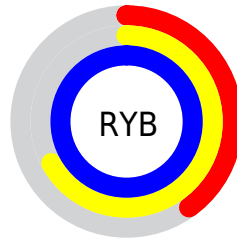
The Yxy color **64.4375, 0.2311, 0.2935** is a light color, and the websafe version is hex **33CCFF**. A complement of this color would be **38.4968, 0.4813, 0.3578**, and the grayscale version is **52.7278, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.7393, 0.2628, 0.3289**, and **32.8783, 0.2126, 0.2834** is the 20% darker color. If you saturate the color by 10%, you get **60.5744, 0.2222, 0.2866**, and if you desaturate by 10%, it is **68.8374, 0.2418, 0.3003**.

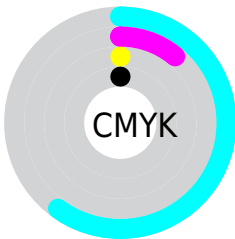
# Distribution



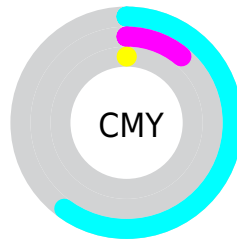
- Red (40%)
- Green (89%)
- Blue (100%)



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



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




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


# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.4375, 0.2311, 0.2935 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 64.4375, 0.2311, 0.2935 by changing the saturation by 10% instead.




 64.4375, 0.2311,  
0.2935

 64.4375, 0.2311,  
0.2935


440.7678, 0.2683,  
0.3112

 47.0051, 0.2228,  
0.2892

 111.2408, 0.2438,  
0.2999

 33.0397, 0.2128,  
0.2837


 141.3804, 0.2488,  
0.3023

 22.1569, 0.2002,  
0.2766


 176.5247, 0.2532,  
0.3043

 13.9722, 0.1843,  
0.2671

217.0578, 0.2570,  
0.3061

 8.1013, 0.1635,  
0.2537

263.3643, 0.2603,  
0.3076

 4.1599, 0.1357,  
0.2338

315.8286, 0.2633,

 1.7634, 0.0978,

0.3090

0.2024

374.8349, 0.2659,  
0.3102

0.4642, 0.0000,  
0.1408

0.0000, 0.0000,  
0.0000

64.4375, 0.2311,  
0.2935

64.4375, 0.2311,  
0.2935

60.5744, 0.2222,  
0.2866

68.8374, 0.2418,  
0.3003

57.1976, 0.2154,  
0.2796

73.8063, 0.2541,  
0.3068

54.2568, 0.2104,  
0.2726

79.3811, 0.2676,  
0.3130

51.6670, 0.2072,  
0.2658

85.5932, 0.2821,  
0.3188

■ 51.6528, 0.2072,  
0.2657

■ 92.4721, 0.2973,  
0.3242

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



64.4375, 0.2471, 0.3349



64.4375, 0.2311, 0.2935



64.4375, 0.2349, 0.2661

# Triad

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



64.4375, 0.2311, 0.2935



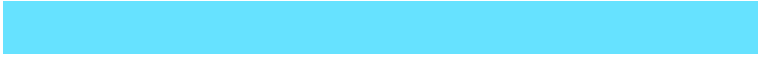
64.4375, 0.3420, 0.2861



64.4375, 0.3666, 0.4080

# Complementary

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



64.4375, 0.2311, 0.2935



38.4968, 0.4813, 0.3578

# 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.



64.4375, 0.3957, 0.3873



64.4375, 0.2311, 0.2935



64.4375, 0.3818, 0.3180

# Square

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



64.4375, 0.2311, 0.2935



64.4375, 0.2962, 0.2641



64.4375, 0.4019, 0.3542



64.4375, 0.3241, 0.4062

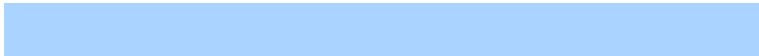


# Rectangle

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



64.4375, 0.2311, 0.2935



64.4375, 0.2482, 0.2578



64.4375, 0.4019, 0.3542



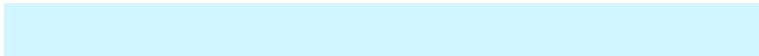
64.4375, 0.3783, 0.4032

# Sweetspot

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



64.4396, 0.2311, 0.2935



86.8770, 0.2850, 0.3199



75.9695, 0.2928, 0.4910



18.1858, 0.2807, 0.3183



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

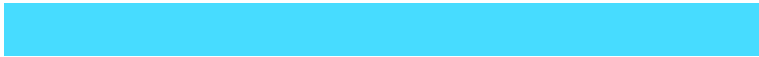


# Same Dimension

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



64.4396, 0.2311, 0.2935



59.8416, 0.2207, 0.2851



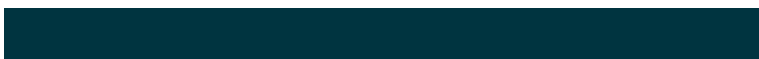
32.0415, 0.2086, 0.1935



19.8608, 0.2980, 0.3244



27.1991, 0.2075, 0.2669



2.7922, 0.2097, 0.2747



# Inverse Universe

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



36.2815, 0.3477, 0.2112



30.9930, 0.3567, 0.1958



66.6522, 0.4262, 0.4314



18.2378, 0.3167, 0.3100



13.4737, 0.3758, 0.1844



1.3264, 0.3684, 0.1803



# Previews

## White Background



This preview shows how the Yxy color 64.4375, 0.2311, 0.2935 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

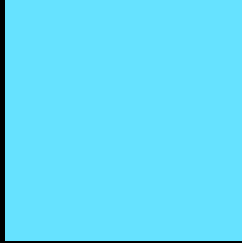
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.4375, 0.2311, 0.2935 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

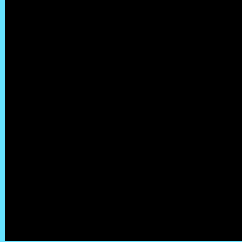
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 64.4375, 0.2311, 0.2935**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.4375, 0.2311, 0.2935.

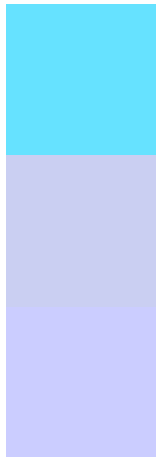


This preview shows how white text looks on a background with the Yxy color 64.4375, 0.2311, 0.2935.

# 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

64.4375, 0.2311, 0.2935

### Protanopia

63.5930, 0.2859, 0.2900

### Deuteranopia

63.5792, 0.2786, 0.2746



## Tritanopia

64.1887, 0.2336, 0.3052

# Trichromacy



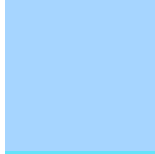
## Original Color

64.4375, 0.2311, 0.2935



## Protanomaly

62.9155, 0.2611, 0.2904



## Deuteranomaly

62.9155, 0.2568, 0.2806



## Tritanomaly

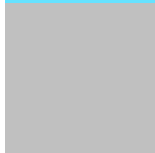
64.4870, 0.2331, 0.3017

# Monochromacy



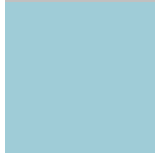
## Original Color

64.4375, 0.2311, 0.2935



## 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 64.4375, 0.2311, 0.2935 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, 226, 255)` looks like.

```
.text, #text, p{  
    color:rgb(102, 226, 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(102, 226, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 226, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 64.4375, 0.2311, 0.2935 is called "border". The border property can be set on classes, ids or directly on the HTML element.

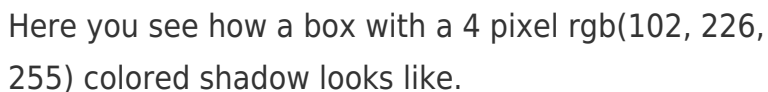
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(102, 226, 255) }
```

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

```
.border{ border-color:rgb(102, 226, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(102, 226, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(102, 226, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(102, 226, 255); box-shadow:4px 4px 4px 4px rgb(102, 226, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.4375, 0.2311, 0.2935 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 226, 255) }
```

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

```
.background{ background-color: rgb(102,  
226, 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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