

# Converting Colors

$Y_{xy}(65.7505, 0.2338, 0.2958)$

Have a look what the booklet for  
Yxy(65.7505, 0.2338, 0.2958)  
contains.

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# Color

**Yxy(65.9580, 0.2340, 0.2962)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6DE4FF
RGB	109, 228, 255
RGB Percent	43%, 89%, 100%
CMY	0.5724, 0.1059, 0.0000
CMYK	0.57, 0.11, 0.00, 0.00
HSL	191°, 100%, 71%
HSV	191°, 57%, 100%
XYZ	52.1073, 65.9580, 104.6154
YIQ	195.4970, -79.5910, -16.8310

# Conversions

## Conversions Part 2

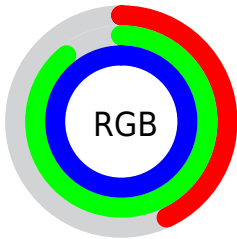
Format	Color
<a href="#">RYB</a>	<a href="#">109, 175, 255</a>
Decimal	<a href="#">7202047</a>
CIELab	<a href="#">84.97, -26.02, -23.26</a>
CIElCh	<a href="#">85, 34.897, 221.794</a>
Yxy	<a href="#">65.9580, 0.2340, 0.2962</a>
Android (android.graphics.Color)	<a href="#">4285392127 (0xFF6DE4FF)</a>
YUV	<a href="#">195.4970, 29.3350, -75.8579</a>
Hunter-Lab	<a href="#">81.2145, -27.5998, -19.5234</a>

# Details

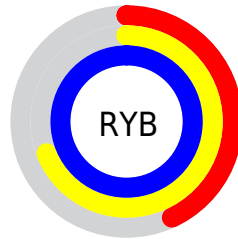
The Yxy color **65.9580, 0.2340, 0.2962** is a light color, and the websafe version is hex **33CCFF**. A complement of this color would be **39.9883, 0.4706, 0.3563**, and the grayscale version is **54.7492, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.3979, 0.2657, 0.3289**, and **33.8893, 0.2164, 0.2871** is the 20% darker color. If you saturate the color by 10%, you get **62.0078, 0.2247, 0.2895**, and if you desaturate by 10%, it is **70.4493, 0.2451, 0.3028**.

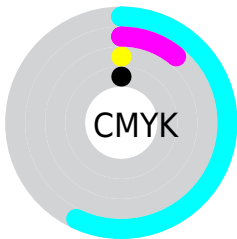
# Distribution



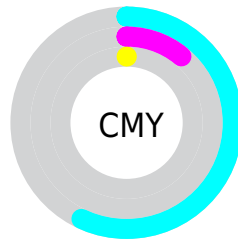
- Red (43%)
- Green (89%)
- Blue (100%)



- Red (43%)
- Yellow (69%)
- Blue (100%)



- Cyan (57%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)




- Cyan (57%)
- Magenta (11%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 65.9580, 0.2340, 0.2962 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 65.9580, 0.2340, 0.2962 by changing the saturation by 10% instead.





 65.9580, 0.2340,  
0.2962

 65.9580, 0.2340,  
0.2962


446.2267, 0.2698,  
0.3126

 48.2383, 0.2260,  
0.2922


 113.4260, 0.2463,  
0.3021

 34.0156, 0.2164,  
0.2872


 143.9432, 0.2511,  
0.3043

 22.9056, 0.2043,  
0.2807


 179.4950, 0.2552,  
0.3062

 14.5238, 0.1890,  
0.2719

220.4657, 0.2589,  
0.3078

 8.4859, 0.1690,  
0.2595

267.2399, 0.2621,  
0.3092

 4.4074, 0.1421,  
0.2412

320.2018, 0.2649,

 1.9040, 0.1052,

0.3105

0.2120

379.7359, 0.2675,  
0.3116

0.5508, 0.0000,  
0.1617

0.0000, 0.0000,  
0.0000

65.9580, 0.2340,  
0.2962

65.9580, 0.2340,  
0.2962

62.0078, 0.2247,  
0.2895

70.4493, 0.2451,  
0.3028

58.5544, 0.2173,  
0.2827

75.5172, 0.2577,  
0.3091

55.5488, 0.2120,  
0.2760

81.1961, 0.2715,  
0.3150

52.9269, 0.2084,  
0.2693

87.5167, 0.2862,  
0.3205

■ 52.2436, 0.2076,  
0.2674

■ 94.5079, 0.3015,  
0.3256

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

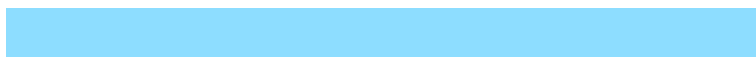
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



65.9580, 0.2503, 0.3365



65.9580, 0.2340, 0.2962



65.9580, 0.2369, 0.2690

# Triad

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



65.9580, 0.2340, 0.2962



65.9580, 0.3393, 0.2864



65.9580, 0.3662, 0.4049

# Complementary

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



65.9580, 0.2340, 0.2962



39.9883, 0.4706, 0.3563

# 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.



65.9580, 0.3935, 0.3844



65.9580, 0.2340, 0.2962



65.9580, 0.3782, 0.3172

# Square

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



65.9580, 0.2340, 0.2962



65.9580, 0.2951, 0.2656



65.9580, 0.3984, 0.3522

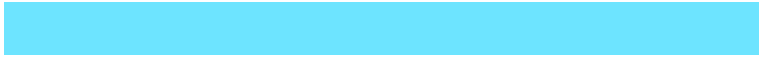


65.9580, 0.3256, 0.4039

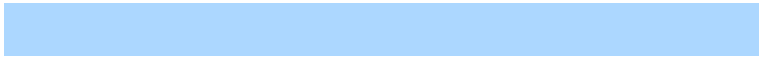


# Rectangle

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



65.9580, 0.2340, 0.2962



65.9580, 0.2493, 0.2604



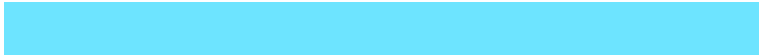
65.9580, 0.3984, 0.3522



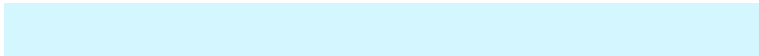
65.9580, 0.3773, 0.4000

# Sweetspot

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



65.9586, 0.2340, 0.2962



87.6739, 0.2866, 0.3206



76.5463, 0.2932, 0.4827



18.4820, 0.2836, 0.3196



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.



65.9586, 0.2340, 0.2962



61.3638, 0.2233, 0.2883



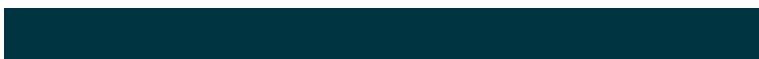
34.0056, 0.2133, 0.2007



19.8762, 0.2980, 0.3245



27.5041, 0.2079, 0.2685



2.8193, 0.2101, 0.2762



# Inverse Universe

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



37.8087, 0.3449, 0.2148



32.1570, 0.3535, 0.1984



67.8591, 0.4207, 0.4277



18.2393, 0.3166, 0.3098



13.5045, 0.3742, 0.1835

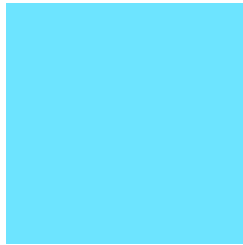


1.3292, 0.3670, 0.1795



# Previews

## White Background



This preview shows how the Yxy color 65.9580, 0.2340, 0.2962 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

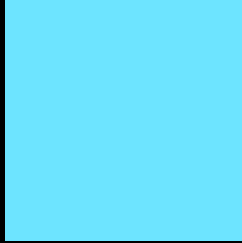
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 65.9580, 0.2340, 0.2962 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 65.9580, 0.2340, 0.2962**

## **Background**



This preview shows how black text looks on a background with the Yxy color 65.9580, 0.2340, 0.2962.



This preview shows how white text looks on a background with the Yxy color 65.9580, 0.2340, 0.2962.

# 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

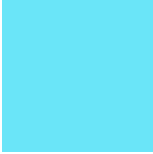
65.9580, 0.2340, 0.2962

### Protanopia

64.9909, 0.2881, 0.2925

### Deuteranopia

65.1110, 0.2814, 0.2772



## **Tritanopia**

65.8801, 0.2361, 0.3055

# Trichromacy



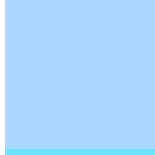
## Original Color

65.9580, 0.2340, 0.2962



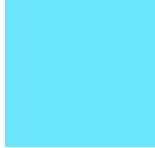
## Protanomaly

64.3732, 0.2637, 0.2931



## Deuteranomaly

64.4788, 0.2599, 0.2833



## Tritanomaly

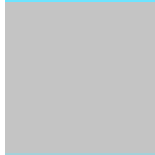
66.1295, 0.2352, 0.3020

# Monochromacy



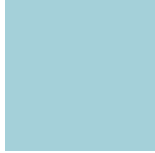
## Original Color

65.9580, 0.2340, 0.2962



## Achromatopsia

55.2011, 0.3127, 0.3290



## Achromatomaly

58.0140, 0.2760, 0.3177

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 65.9580, 0.2340, 0.2962 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(109, 228, 255)` looks like.

```
.text, #text, p{  
    color:rgb(109, 228, 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(109, 228, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(109, 228, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 65.9580, 0.2340, 0.2962 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(109, 228, 255) }
```

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

```
.border{ border-color:rgb(109, 228, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(109, 228, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(109, 228, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(109, 228, 255);  
box-shadow:4px 4px 4px 4px rgb(109, 228,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 65.9580, 0.2340, 0.2962 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(109, 228, 255) }
```

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

```
.background{ background-color: rgb(109,  
228, 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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