

# Converting Colors

$Y_{xy}(72.3552, 0.2327, 0.3032)$

Have a look what the booklet for  
Yxy(72.3552, 0.2327, 0.3032)  
contains.

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# Color

**Yxy(71.8366, 0.2350, 0.3097)**

# Conversions

## Conversions Part 1

Format	Color
Hex	67EFFF
RGB	103, 239, 255
RGB Percent	40%, 94%, 100%
CMY	0.5961, 0.0627, 0.0000
CMYK	0.60, 0.06, 0.00, 0.00
HSL	186°, 100%, 70%
HSV	186°, 60%, 100%
XYZ	54.5095, 71.8366, 105.6093
YIQ	200.1600, -86.1920, -23.8560

# Conversions

## Conversions Part 2

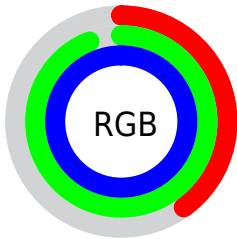
<b>Format</b>	<b>Color</b>
<b>RYB</b>	103, 175, 255
Decimal	6811647
CIELab	87.89, -32.39, -18.85
CIELCh	88, 37.476, 210.207
Yxy	71.8366, 0.2350, 0.3097
Android (android.graphics.Color)	4285001727 (0xFF67EFFF)
YUV	200.1600, 27.0361, -85.2093
Hunter-Lab	84.7565, -33.5249, -14.5477

# Details

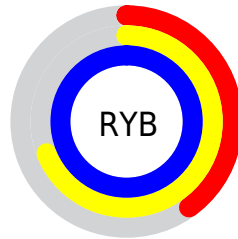
The Yxy color **71.8366, 0.2350, 0.3097** is a light color, and the websafe version is hex **66FFFF**. A complement of this color would be **35.4283, 0.4895, 0.3449**, and the grayscale version is **57.7313, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.9555, 0.2638, 0.3289**, and **37.9700, 0.2183, 0.3051** is the 20% darker color. If you saturate the color by 10%, you get **68.9943, 0.2273, 0.3060**, and if you desaturate by 10%, it is **75.1656, 0.2446, 0.3134**.

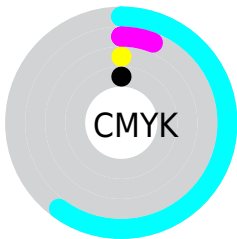
# Distribution



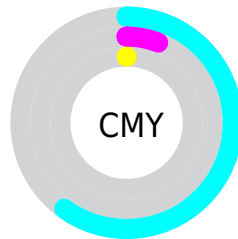
- Red (40%)
- Green (94%)
- Blue (100%)



- Red (40%)
- Yellow (69%)
- Blue (100%)



- Cyan (60%)
- Magenta (6%)
- Yellow (0%)
- Black (0%)




- Cyan (60%)
- Magenta (6%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 71.8366, 0.2350, 0.3097 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 71.8366, 0.2350, 0.3097 by changing the saturation by 10% instead.




 71.8366, 0.2350,  
0.3097


 71.8366, 0.2350,  
0.3097

466.9727, 0.2699,  
0.3197


 53.0252, 0.2273,  
0.3072


 121.8242, 0.2469,  
0.3134

 37.8229, 0.2180,  
0.3040


 153.7692, 0.2516,  
0.3147

 25.8453, 0.2065,  
0.2997


 190.8608, 0.2556,  
0.3159

 16.7079, 0.1919,  
0.2939

233.4835, 0.2592,  
0.3169

 10.0265, 0.1730,  
0.2856

282.0216, 0.2623,  
0.3177

 5.4165, 0.1477,  
0.2730

336.8596, 0.2651,

 2.4937, 0.1129,

0.3185

0.2520

398.3818, 0.2676,  
0.3191

0.8735, 0.0103,  
0.2263

0.0000, 0.0000,  
0.0000

71.8366, 0.2350,  
0.3097

71.8366, 0.2350,  
0.3097

68.9943, 0.2273,  
0.3060

75.1656, 0.2446,  
0.3134

66.5896, 0.2215,  
0.3023

79.0136, 0.2560,  
0.3169

64.5728, 0.2176,  
0.2986

83.4165, 0.2689,  
0.3203

62.8630, 0.2153,  
0.2950

88.4054, 0.2829,  
0.3234

■ 62.7994, 0.2153,  
0.2949

■ 94.0089, 0.2978,  
0.3264

100.0000, 0.3127,  
0.3290

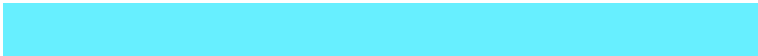
# Harmonies

## Analogous

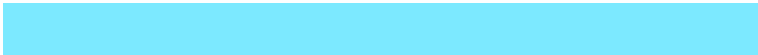
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



71.8366, 0.2591, 0.3543



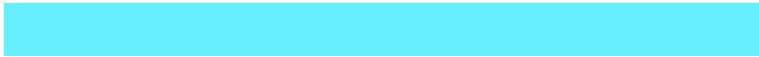
71.8366, 0.2350, 0.3097



71.8366, 0.2303, 0.2753

# Triad

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



71.8366, 0.2350, 0.3097



71.8366, 0.3224, 0.2749



71.8366, 0.3817, 0.4019

# Complementary

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



71.8366, 0.2350, 0.3097



35.4283, 0.4895, 0.3449

# 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.



71.8366, 0.4021, 0.3744



71.8366, 0.2350, 0.3097



71.8366, 0.3670, 0.3034

# Square

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



71.8366, 0.2350, 0.3097



71.8366, 0.2781, 0.2585



71.8366, 0.3970, 0.3388



71.8366, 0.3432, 0.4109

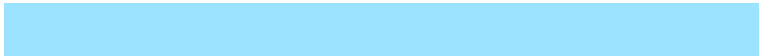


# Rectangle

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



71.8366, 0.2350, 0.3097



71.8366, 0.2383, 0.2617



71.8366, 0.3970, 0.3388



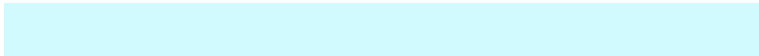
71.8366, 0.3910, 0.3943

# Sweetspot

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



71.8385, 0.2350, 0.3097



89.2670, 0.2853, 0.3239



75.7152, 0.2979, 0.5054



18.7766, 0.2810, 0.3230



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.



71.8385, 0.2350, 0.3097



68.3822, 0.2257, 0.3051



36.5792, 0.2130, 0.2112



20.1355, 0.2980, 0.3264



32.9461, 0.2154, 0.2955



3.2977, 0.2166, 0.2996



# Inverse Universe

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



37.1901, 0.3343, 0.2016



31.8551, 0.3395, 0.1845



60.9092, 0.4341, 0.4195



18.2655, 0.3154, 0.3080



14.0539, 0.3494, 0.1698

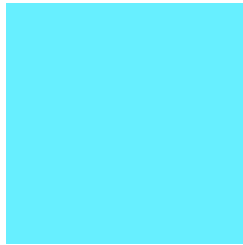


1.3775, 0.3457, 0.1678



# Previews

## White Background



This preview shows how the Yxy color 71.8366, 0.2350, 0.3097 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

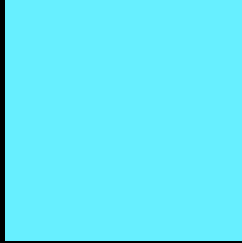
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 71.8366, 0.2350, 0.3097 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

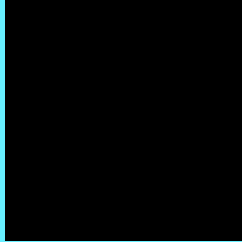
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 71.8366, 0.2350, 0.3097**

## **Background**



This preview shows how black text looks on a background with the Yxy color 71.8366, 0.2350, 0.3097.

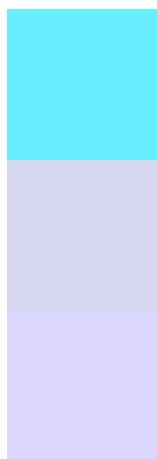


This preview shows how white text looks on a background with the Yxy color 71.8366, 0.2350, 0.3097.

# 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

71.8366, 0.2350, 0.3097

### Protanopia

70.5755, 0.2964, 0.3032

### Deuteranopia

71.0365, 0.2904, 0.2871



## Tritanopia

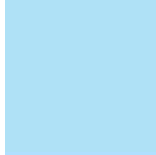
71.7103, 0.2399, 0.3076

# Trichromacy



## Original Color

71.8366, 0.2350, 0.3097



## Protanomaly

69.6182, 0.2683, 0.3050



## Deuteranomaly

69.8784, 0.2646, 0.2942



## Tritanomaly

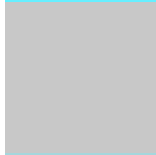
71.8798, 0.2380, 0.3087

# Monochromacy



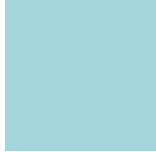
## Original Color

71.8366, 0.2350, 0.3097



## Achromatopsia

57.7580, 0.3127, 0.3290



## Achromatomaly

61.2598, 0.2755, 0.3216

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 71.8366, 0.2350, 0.3097 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(103, 239, 255)` looks like.

```
.text, #text, p{  
    color:rgb(103, 239, 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(103, 239, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 239, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 71.8366, 0.2350, 0.3097 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(103, 239, 255) }
```

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

```
.border{ border-color:rgb(103, 239, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 239, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 239, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 239, 255);  
box-shadow:4px 4px 4px 4px rgb(103, 239,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 71.8366, 0.2350, 0.3097 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 239, 255) }
```

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

```
.background{ background-color: rgb(103,  
239, 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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