

# Converting Colors

$Y_{xy}(72.1943, 0.2155, 0.2395)$

Have a look what the booklet for  
Yxy(72.1943, 0.2155, 0.2395)  
contains.

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# Color

**Yxy(67.5266, 0.2371, 0.2989)**

# Conversions

## Conversions Part 1

Format	Color
Hex	74E6FF
RGB	116, 230, 255
RGB Percent	45%, 90%, 100%
CMY	0.5445, 0.0981, 0.0000
CMYK	0.54, 0.10, 0.00, 0.00
HSL	191°, 100%, 73%
HSV	191°, 54%, 100%
XYZ	53.5649, 67.5266, 104.8255
YIQ	198.7640, -75.9690, -16.3930

# Conversions

## Conversions Part 2

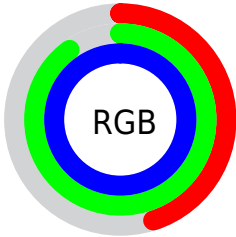
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	116, 179, 255
Decimal	7661311
CIE <sub>Lab</sub>	85.77, -25.66, -22.02
CIE <sub>LCh</sub>	86, 33.813, 220.635
Yxy	67.5266, 0.2371, 0.2989
Android (android.graphics.Color)	4285851391 (0xFF74E6FF)
YUV	198.7640, 27.7243, -72.5840
Hunter-Lab	82.1746, -27.4515, -18.1107

# Details

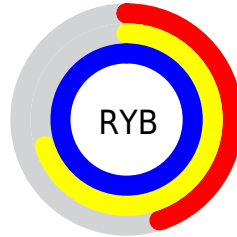
The Yxy color **67.5266, 0.2371, 0.2989** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **41.6246, 0.4598, 0.3547**, and the grayscale version is **56.8472, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.0871, 0.2686, 0.3289**, and **34.9302, 0.2202, 0.2907** is the 20% darker color. If you saturate the color by 10%, you get **63.4882, 0.2274, 0.2924**, and if you desaturate by 10%, it is **72.1159, 0.2486, 0.3052**.

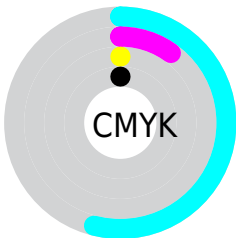
# Distribution



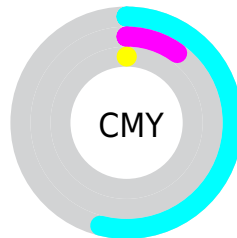
- Red (45%)
- Green (90%)
- Blue (100%)



- Red (45%)
- Yellow (70%)
- Blue (100%)



- Cyan (54%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)




- Cyan (54%)
- Magenta (10%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.5266, 0.2371, 0.2989 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 67.5266, 0.2371, 0.2989 by changing the saturation by 10% instead.



 67.5266, 0.2371,  
0.2989

 67.5266, 0.2371,  
0.2989


451.8169, 0.2714,  
0.3139

 49.5127, 0.2295,  
0.2953


 115.6747, 0.2488,  
0.3043

 35.0264, 0.2202,  
0.2907


 146.5776, 0.2534,  
0.3063

 23.6832, 0.2087,  
0.2847


 182.5457, 0.2574,  
0.3081

 15.0988, 0.1940,  
0.2766

223.9633, 0.2609,  
0.3096

 8.8887, 0.1748,  
0.2653

271.2148, 0.2640,  
0.3109

 4.6687, 0.1489,  
0.2485

324.6847, 0.2668,

 2.0542, 0.1131,

0.3120

0.2217

384.7572, 0.2692,  
0.3130

■ 0.6387, 0.0000,  
0.1818

■ 0.0000, 0.0000,  
0.0000

■ 67.5266, 0.2371,  
0.2989

■ 67.5266, 0.2371,  
0.2989

■ 63.4882, 0.2274,  
0.2924

■ 72.1159, 0.2486,  
0.3052

■ 59.9542, 0.2195,  
0.2858

■ 77.2867, 0.2615,  
0.3112

■ 56.8792, 0.2137,  
0.2792

■ 83.0735, 0.2756,  
0.3169

■ 54.2053, 0.2097,  
0.2727

■ 89.5066, 0.2904,  
0.3222

■ 52.8488, 0.2081,  
0.2691

■ 96.6141, 0.3058,  
0.3270

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.



67.5266, 0.2536, 0.3379



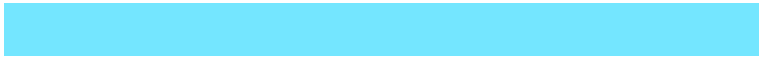
67.5266, 0.2371, 0.2989



67.5266, 0.2392, 0.2720

# Triad

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



67.5266, 0.2371, 0.2989



67.5266, 0.3367, 0.2870



67.5266, 0.3656, 0.4015

# Complementary

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



67.5266, 0.2371, 0.2989



41.6246, 0.4598, 0.3547

# 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.



67.5266, 0.3911, 0.3814



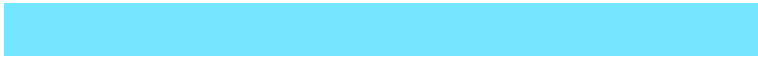
67.5266, 0.2371, 0.2989



67.5266, 0.3744, 0.3165

# Square

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



67.5266, 0.2371, 0.2989



67.5266, 0.2943, 0.2673



67.5266, 0.3948, 0.3502

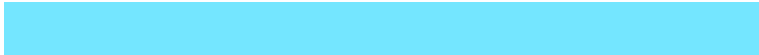


67.5266, 0.3268, 0.4013

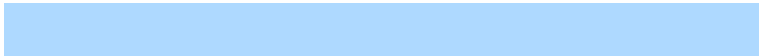


# Rectangle

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



67.5266, 0.2371, 0.2989



67.5266, 0.2507, 0.2631



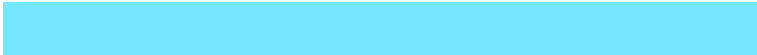
67.5266, 0.3948, 0.3502



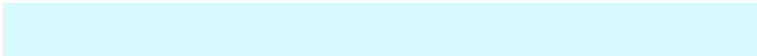
67.5266, 0.3761, 0.3967

# Sweetspot

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



67.5285, 0.2371, 0.2989



88.4655, 0.2881, 0.3214



77.1163, 0.2948, 0.4769



18.6448, 0.2850, 0.3203



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.



67.5285, 0.2371, 0.2989



63.2807, 0.2269, 0.2921



36.9383, 0.2188, 0.2112



19.8919, 0.2980, 0.3246



27.8164, 0.2084, 0.2702



2.8470, 0.2105, 0.2776



# Inverse Universe

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



39.4987, 0.3423, 0.2188



33.8902, 0.3497, 0.2028



67.9873, 0.4163, 0.4216



18.2409, 0.3166, 0.3097



13.5361, 0.3726, 0.1826

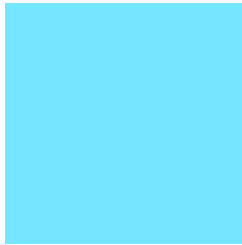


1.3319, 0.3657, 0.1788



# Previews

## White Background



This preview shows how the Yxy color 67.5266, 0.2371, 0.2989 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

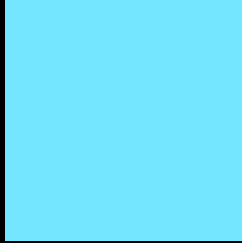
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 67.5266, 0.2371, 0.2989 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 67.5266, 0.2371, 0.2989**

## **Background**



This preview shows how black text looks on a background with the Yxy color 67.5266, 0.2371, 0.2989.



This preview shows how white text looks on a background with the Yxy color 67.5266, 0.2371, 0.2989.

# 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

67.5266, 0.2371, 0.2989

### Protanopia

66.4695, 0.2896, 0.2939

### Deuteranopia

66.6698, 0.2842, 0.2798



## Tritanopia

67.6314, 0.2387, 0.3059

# Trichromacy



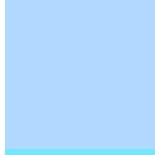
## Original Color

67.5266, 0.2371, 0.2989



## Protanomaly

65.9722, 0.2669, 0.2957



## Deuteranomaly

66.1928, 0.2636, 0.2861



## Tritanomaly

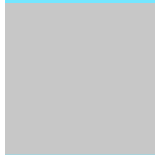
67.8249, 0.2382, 0.3036

# Monochromacy



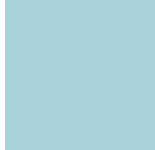
## Original Color

67.5266, 0.2371, 0.2989



## Achromatopsia

57.1125, 0.3127, 0.3290



## Achromatomaly

59.6427, 0.2782, 0.3179

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 67.5266, 0.2371, 0.2989 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(116, 230, 255)` looks like.

```
.text, #text, p{  
    color:rgb(116, 230, 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(116, 230, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 230, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 67.5266, 0.2371, 0.2989 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(116, 230, 255) }
```

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

```
.border{ border-color:rgb(116, 230, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 230, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 230, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 230, 255);  
box-shadow:4px 4px 4px 4px rgb(116, 230,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.5266, 0.2371, 0.2989 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 230, 255) }
```

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

```
.background{ background-color: rgb(116,  
230, 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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