

# Converting Colors

$Y_{xy}(70.8531, 0.2343, 0.3078)$

Have a look what the booklet for  
Yxy(70.8531, 0.2343, 0.3078)  
contains.

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# Color

**Yxy(70.6132, 0.2341, 0.3072)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66EDFF
RGB	102, 237, 255
RGB Percent	40%, 93%, 100%
CMY	0.6004, 0.0706, 0.0000
CMYK	0.60, 0.07, 0.00, 0.00
HSL	187°, 100%, 70%
HSV	187°, 60%, 100%
XYZ	53.8104, 70.6132, 105.4371
YIQ	198.6870, -86.2380, -23.0220

# Conversions

## Conversions Part 2

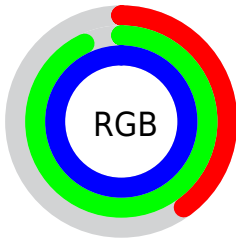
Format	Color
<a href="#">RYB</a>	<a href="#">102, 174, 255</a>
Decimal	<a href="#">6745599</a>
CIELab	<a href="#">87.30, -31.61, -19.77</a>
CIELCh	<a href="#">87, 37.287, 212.020</a>
Yxy	<a href="#">70.6132, 0.2341, 0.3072</a>
Android (android.graphics.Color)	<a href="#">4284935679</a> ( <a href="#">0xFF66EDFF</a> )
YUV	<a href="#">198.6870, 27.7623, -84.7945</a>
Hunter-Lab	<a href="#">84.0317, -32.7514, -15.5708</a>

# Details

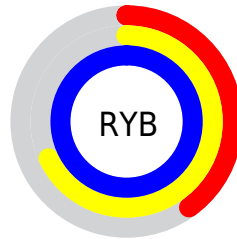
The Yxy color **70.6132, 0.2341, 0.3072** is a light color, and the websafe version is hex **66FFFF**. A complement of this color would be **35.6249, 0.4900, 0.3468**, and the grayscale version is **56.7635, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.8470, 0.2633, 0.3289**, and **37.1250, 0.2172, 0.3018** is the 20% darker color. If you saturate the color by 10%, you get **67.6261, 0.2263, 0.3031**, and if you desaturate by 10%, it is **74.0868, 0.2438, 0.3113**.

# Distribution



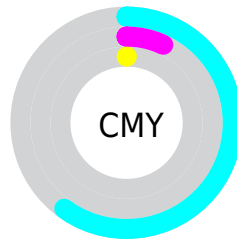
- Red (40%)
- Green (93%)
- Blue (100%)



- Red (40%)
- Yellow (68%)
- Blue (100%)



- Cyan (60%)
- Magenta (7%)
- Yellow (0%)
- Black (0%)




- Cyan (60%)
- Magenta (7%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.6132, 0.2341, 0.3072 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 70.6132, 0.2341, 0.3072 by changing the saturation by 10% instead.




 70.6132, 0.2341,  
0.3072

 70.6132, 0.2341,  
0.3072

462.7001, 0.2695,  
0.3184


 52.0266, 0.2263,  
0.3044


 120.0828, 0.2461,  
0.3113

 37.0263, 0.2169,  
0.3008


 151.7346, 0.2509,  
0.3128

 25.2278, 0.2052,  
0.2961


 188.5103, 0.2550,  
0.3141

 16.2469, 0.1903,  
0.2898

230.7942, 0.2586,  
0.3152

 9.6990, 0.1711,  
0.2806

278.9707, 0.2618,  
0.3162

 5.1999, 0.1453,  
0.2668

333.4243, 0.2647,

 2.3650, 0.1100,

0.3170

0.2441

394.5393, 0.2672,  
0.3178

0.8078, 0.0000,  
0.2161

0.0000, 0.0000,  
0.0000

70.6132, 0.2341,  
0.3072

70.6132, 0.2341,  
0.3072

67.6261, 0.2263,  
0.3031

74.0868, 0.2438,  
0.3113

65.0823, 0.2204,  
0.2989

78.0856, 0.2553,  
0.3153

62.9296, 0.2165,  
0.2948

82.6438, 0.2682,  
0.3191

61.0892, 0.2141,  
0.2908

87.7924, 0.2823,  
0.3227

■ 93.5604, 0.2972,  
0.3260

99.9745, 0.3127,  
0.3290

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.



70.6132, 0.2571, 0.3516



70.6132, 0.2341, 0.3072



70.6132, 0.2306, 0.2737

# Triad

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



70.6132, 0.2341, 0.3072



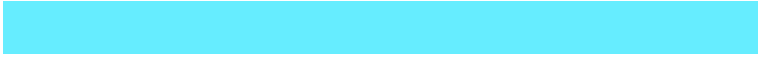
70.6132, 0.3253, 0.2763



70.6132, 0.3798, 0.4031

# Complementary

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



70.6132, 0.2341, 0.3072



35.6249, 0.4900, 0.3468

# 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.



70.6132, 0.4016, 0.3764



70.6132, 0.2341, 0.3072



70.6132, 0.3694, 0.3054

# Square

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



70.6132, 0.2341, 0.3072



70.6132, 0.2805, 0.2590



70.6132, 0.3982, 0.3410



70.6132, 0.3406, 0.4106

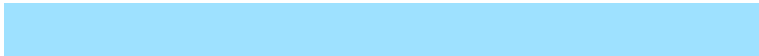


# Rectangle

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



70.6132, 0.2341, 0.3072



70.6132, 0.2394, 0.2608



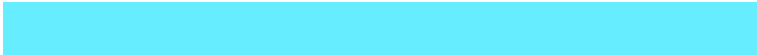
70.6132, 0.3982, 0.3410



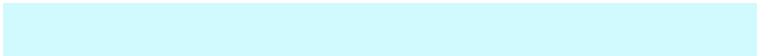
70.6132, 0.3895, 0.3958

# Sweetspot

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



70.6130, 0.2341, 0.3073



88.9166, 0.2852, 0.3233



75.6895, 0.2969, 0.5038



18.6899, 0.2810, 0.3223



0.0000, 0.0000, 0.0000

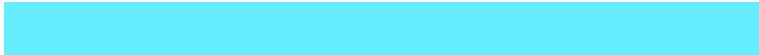


21.4041, 0.3127, 0.3290



# Same Dimension

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



70.6130, 0.2341, 0.3073



67.0935, 0.2250, 0.3023



35.3860, 0.2115, 0.2068



20.0954, 0.2980, 0.3261



32.0653, 0.2143, 0.2914



3.2208, 0.2156, 0.2961



# Inverse Universe

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



36.8588, 0.3364, 0.2024



31.7250, 0.3419, 0.1861



61.8387, 0.4333, 0.4223



18.2614, 0.3156, 0.3083



13.9650, 0.3530, 0.1718

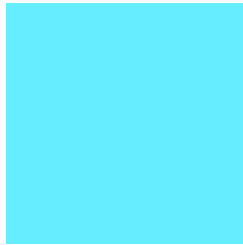


1.3697, 0.3489, 0.1695



# Previews

## White Background



This preview shows how the Yxy color 70.6132, 0.2341, 0.3072 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

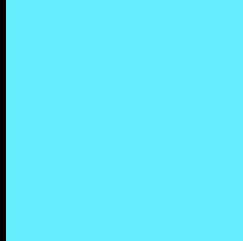
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.6132, 0.2341, 0.3072 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 70.6132, 0.2341, 0.3072**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.6132, 0.2341, 0.3072.

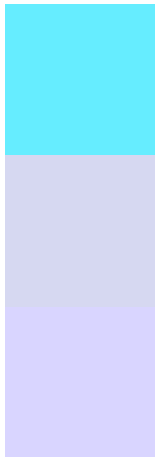


This preview shows how white text looks on a background with the Yxy color 70.6132, 0.2341, 0.3072.

# 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

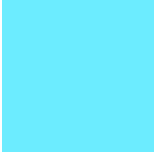
70.6132, 0.2341, 0.3072

### Protanopia

69.7587, 0.2951, 0.3020

### Deuteranopia

69.5602, 0.2884, 0.2847



## **Tritanopia**

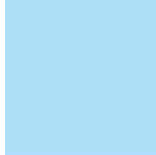
70.3991, 0.2358, 0.3061

# Trichromacy



## Original Color

70.6132, 0.2341, 0.3072



## Protanomaly

68.8494, 0.2670, 0.3038



## Deuteranomaly

68.5765, 0.2632, 0.2918



## Tritanomaly

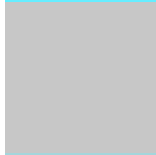
70.2751, 0.2352, 0.3061

# Monochromacy



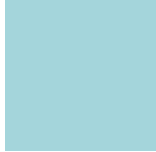
## Original Color

70.6132, 0.2341, 0.3072



## Achromatopsia

57.1125, 0.3127, 0.3290



## Achromatomaly

60.5955, 0.2753, 0.3215

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.6132, 0.2341, 0.3072 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, 237, 255)` looks like.

```
.text, #text, p{  
    color:rgb(102, 237, 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, 237, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 237, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 70.6132, 0.2341, 0.3072 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, 237, 255) }
```

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

```
.border{ border-color:rgb(102, 237, 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, 237, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 237, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 237, 255);  
box-shadow:4px 4px 4px 4px rgb(102, 237,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.6132, 0.2341, 0.3072 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 237, 255) }
```

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

```
.background{ background-color: rgb(102,  
237, 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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