

# Converting Colors

$Y_{xy}(71.2299, 0.2388, 0.2948)$

Have a look what the booklet for  
Yxy(71.2299, 0.2388, 0.2948)  
contains.

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# Color

**Yxy(70.5777, 0.2423, 0.3041)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7FEAFF
RGB	127, 234, 255
RGB Percent	50%, 92%, 100%
CMY	0.5016, 0.0824, 0.0000
CMYK	0.50, 0.08, 0.00, 0.00
HSL	190°, 100%, 75%
HSV	190°, 50%, 100%
XYZ	56.2347, 70.5777, 105.2747
YIQ	204.4010, -70.5130, -16.1530

# Conversions

## Conversions Part 2

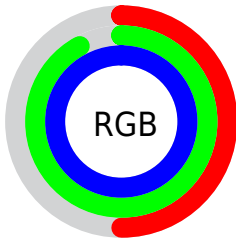
<b>Format</b>	<b>Color</b>
<b>RYB</b>	127, 185, 255
Decimal	8383231
CIELab	87.28, -25.42, -19.70
CIELCh	87, 32.158, 217.773
Yxy	70.5777, 0.2423, 0.3041
Android (android.graphics.Color)	4286573311 (0xFF7FEAFF)
YUV	204.4010, 24.9453, -67.8807
Hunter-Lab	84.0105, -27.5347, -15.4897

# Details

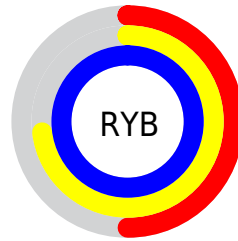
The Yxy color **70.5777, 0.2423, 0.3041** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **44.0018, 0.4442, 0.3510**, and the grayscale version is **60.5356, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.3048, 0.2736, 0.3289**, and **36.9748, 0.2267, 0.2977** is the 20% darker color. If you saturate the color by 10%, you get **66.5055, 0.2320, 0.2983**, and if you desaturate by 10%, it is **75.2057, 0.2543, 0.3097**.

# Distribution



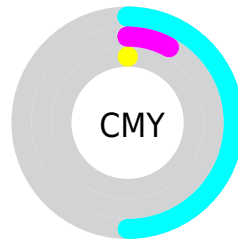
- Red (50%)
- Green (92%)
- Blue (100%)



- Red (50%)
- Yellow (73%)
- Blue (100%)



- Cyan (50%)
- Magenta (8%)
- Yellow (0%)
- Black (0%)



- Cyan (50%)
- Magenta (8%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.5777, 0.2423, 0.3041 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 70.5777, 0.2423, 0.3041 by changing the saturation by 10% instead.




 70.5777, 0.2423,  
0.3041

 70.5777, 0.2423,  
0.3041


462.5758, 0.2741,  
0.3165

 51.9976, 0.2353,  
0.3011


 120.0322, 0.2532,  
0.3086

 37.0032, 0.2267,  
0.2973


 151.6755, 0.2574,  
0.3102

 25.2100, 0.2160,  
0.2923


 188.4419, 0.2611,  
0.3117

 16.2336, 0.2025,  
0.2857

230.7160, 0.2644,  
0.3129

 9.6896, 0.1847,  
0.2763

278.8820, 0.2672,  
0.3140

 5.1936, 0.1607,  
0.2624

333.3244, 0.2698,

 2.3613, 0.1270,

0.3149

0.2399

394.4275, 0.2721,  
0.3158

0.8059, 0.0376,  
0.2084

0.0000, 0.0000,  
0.0000

70.5777, 0.2423,  
0.3041

70.5777, 0.2423,  
0.3041

66.5055, 0.2320,  
0.2983

75.2057, 0.2543,  
0.3097

62.9446, 0.2236,  
0.2924

80.4181, 0.2676,  
0.3151

59.8530, 0.2171,  
0.2864

86.2483, 0.2819,  
0.3201

57.1782, 0.2125,  
0.2805

92.7254, 0.2970,  
0.3247

■ 54.8704, 0.2097,  
0.2747

99.8766, 0.3125,  
0.3289

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.



70.5777, 0.2595, 0.3412



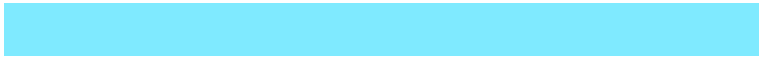
70.5777, 0.2423, 0.3041



70.5777, 0.2426, 0.2773

# Triad

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



70.5777, 0.2423, 0.3041



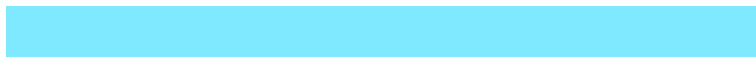
70.5777, 0.3315, 0.2872



70.5777, 0.3654, 0.3959

# Complementary

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



70.5777, 0.2423, 0.3041



44.0018, 0.4442, 0.3510

# 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.



70.5777, 0.3875, 0.3760



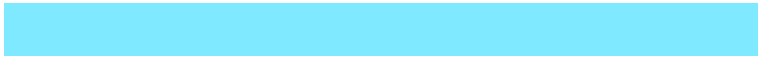
70.5777, 0.2423, 0.3041



70.5777, 0.3677, 0.3144

# Square

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



70.5777, 0.2423, 0.3041



70.5777, 0.2920, 0.2697



70.5777, 0.3887, 0.3462

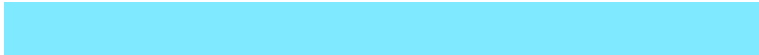


70.5777, 0.3298, 0.3975

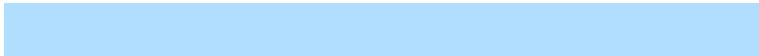


# Rectangle

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



70.5777, 0.2423, 0.3041



70.5777, 0.2524, 0.2678



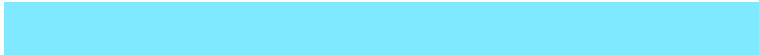
70.5777, 0.3887, 0.3462



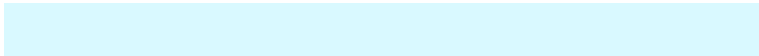
70.5777, 0.3747, 0.3910

# Sweetspot

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



70.5797, 0.2423, 0.3041



89.5109, 0.2896, 0.3225



78.1219, 0.2967, 0.4661



18.8694, 0.2864, 0.3215



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

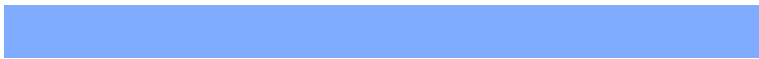
The Same Dimension uses a secret algorithm to generate beautiful new colors.



70.5797, 0.2423, 0.3041



66.5682, 0.2322, 0.2984



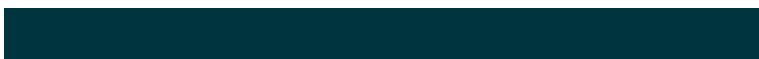
41.1871, 0.2269, 0.2250



19.9436, 0.2980, 0.3250



28.8596, 0.2099, 0.2757



2.9392, 0.2118, 0.2824



# Inverse Universe

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



42.3997, 0.3374, 0.2246



36.4688, 0.3436, 0.2080



69.0004, 0.4082, 0.4131



18.2461, 0.3163, 0.3094



13.6414, 0.3675, 0.1798

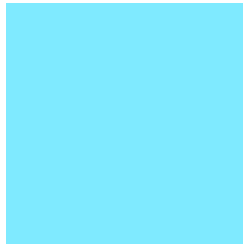


1.3413, 0.3613, 0.1764



# Previews

## White Background



This preview shows how the Yxy color 70.5777, 0.2423, 0.3041 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

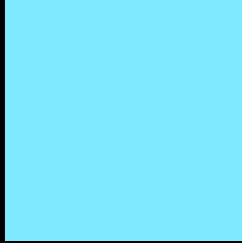
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.5777, 0.2423, 0.3041 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

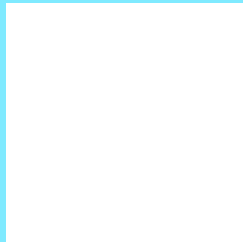
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 70.5777, 0.2423, 0.3041**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.5777, 0.2423, 0.3041.

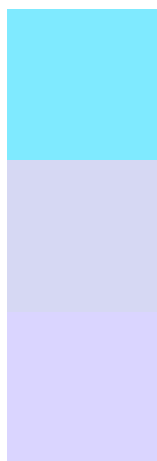


This preview shows how white text looks on a background with the Yxy color 70.5777, 0.2423, 0.3041.

# 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

70.5777, 0.2423, 0.3041

### Protanopia

69.8789, 0.2938, 0.2999

### Deuteranopia

69.7139, 0.2890, 0.2848



## Tritanopia

70.3731, 0.2427, 0.3064

# Trichromacy



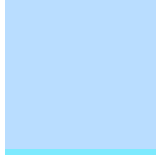
## Original Color

70.5777, 0.2423, 0.3041



## Protanomaly

69.4358, 0.2716, 0.3019



## Deuteranomaly

69.2472, 0.2688, 0.2912



## Tritanomaly

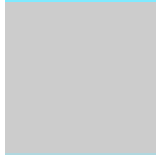
70.4370, 0.2423, 0.3052

# Monochromacy



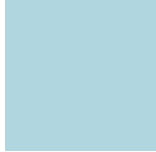
## Original Color

70.5777, 0.2423, 0.3041



## Achromatopsia

60.3827, 0.3127, 0.3290



## Achromatomaly

63.1587, 0.2808, 0.3194

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.5777, 0.2423, 0.3041 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(127, 234, 255)` looks like.

```
.text, #text, p{  
    color:rgb(127, 234, 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(127, 234, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(127, 234, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 70.5777, 0.2423, 0.3041 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(127, 234, 255) }
```

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

```
.border{ border-color:rgb(127, 234, 255) }
```

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

Here you see how a box with a 4 pixel rgb(127, 234, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(127, 234, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(127, 234, 255);  
box-shadow:4px 4px 4px 4px rgb(127, 234,  
255) }
```



# Background

The CSS property to change the background color of an element to  $Yxy$  70.5777, 0.2423, 0.3041 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(127, 234, 255) }
```

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

```
.background{ background-color: rgb(127,  
234, 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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