

# Converting Colors

$Y_{xy}(68.7151, 0.2379, 0.3014)$

Have a look what the booklet for  
Yxy(68.7151, 0.2379, 0.3014)  
contains.

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# Color

**Yxy(68.7151, 0.2379, 0.3014)**

# Conversions

## Conversions Part 1

Format	Color
Hex	75E8FF
RGB	117, 232, 255
RGB Percent	46%, 91%, 100%
CMY	0.5415, 0.0902, 0.0000
CMYK	0.54, 0.09, 0.00, 0.00
HSL	190°, 100%, 73%
HSV	190°, 54%, 100%
XYZ	54.2380, 68.7151, 105.0333
YIQ	200.2370, -75.9230, -17.2270

# Conversions

## Conversions Part 2

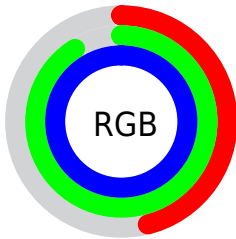
Format	Color
<b>RYB</b>	117, 180, 255
Decimal	7727359
CIELab	86.36, -26.50, -21.13
CIELCh	86, 33.888, 218.568
Yxy	68.7151, 0.2379, 0.3014
Android (android.graphics.Color)	4285917439 (0xFF75E8FF)
YUV	200.2370, 26.9982, -72.9988
Hunter-Lab	82.8946, -28.2729, -17.0985

# Details

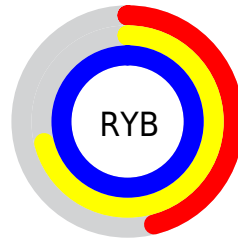
The Yxy color **68.7151, 0.2379, 0.3014** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **41.2744, 0.4598, 0.3527**, and the grayscale version is **57.7673, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.2050, 0.2691, 0.3289**, and **35.7322, 0.2213, 0.2940** is the 20% darker color. If you saturate the color by 10%, you get **64.8233, 0.2283, 0.2955**, and if you desaturate by 10%, it is **73.1472, 0.2493, 0.3072**.

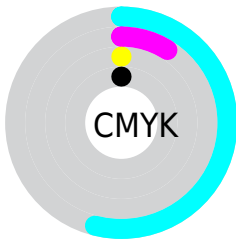
# Distribution



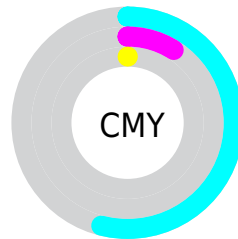
- Red (46%)
- Green (91%)
- Blue (100%)



- Red (46%)
- Yellow (71%)
- Blue (100%)



- Cyan (54%)
- Magenta (9%)
- Yellow (0%)
- Black (0%)




- Cyan (54%)
- Magenta (9%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.7151, 0.2379, 0.3014 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 68.7151, 0.2379, 0.3014 by changing the saturation by 10% instead.



 68.7151, 0.2379,  
0.3014

 68.7151, 0.2379,  
0.3014


456.0255, 0.2718,  
0.3152


 50.4797, 0.2304,  
0.2980


 117.3746, 0.2495,  
0.3064

 35.7947, 0.2213,  
0.2938


 148.5674, 0.2540,  
0.3082

 24.2757, 0.2099,  
0.2883


 184.8483, 0.2580,  
0.3098

 15.5383, 0.1955,  
0.2808


226.6014, 0.2614,  
0.3112

 9.1980, 0.1766,  
0.2703

274.2114, 0.2645,  
0.3124

 4.8706, 0.1512,  
0.2546

328.0624, 0.2672,

 2.1715, 0.1159,

0.3134

0.2294

388.5390, 0.2696,  
0.3144

0.7044, 0.0063,  
0.1945

0.0000, 0.0000,  
0.0000

68.7151, 0.2379,  
0.3014

68.7151, 0.2379,  
0.3014

64.8233, 0.2283,  
0.2955

73.1472, 0.2493,  
0.3072

61.4288, 0.2206,  
0.2894

78.1531, 0.2621,  
0.3128

58.4854, 0.2149,  
0.2834

83.7661, 0.2761,  
0.3180

55.9357, 0.2110,  
0.2774

90.0163, 0.2909,  
0.3228

■ 54.5784, 0.2094,  
0.2739

■ 96.9315, 0.3063,  
0.3273

100.0000, 0.3127,  
0.3290

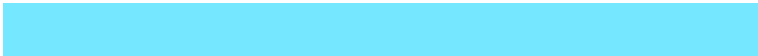
# Harmonies

## Analogous

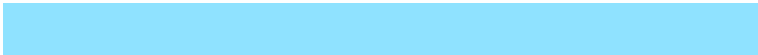
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



68.7151, 0.2555, 0.3407



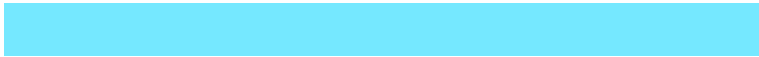
68.7151, 0.2379, 0.3014



68.7151, 0.2387, 0.2735

# Triad

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



68.7151, 0.2379, 0.3014



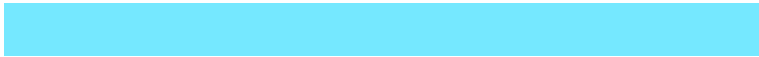
68.7151, 0.3337, 0.2854



68.7151, 0.3677, 0.4005

# Complementary

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



68.7151, 0.2379, 0.3014



41.2744, 0.4598, 0.3527

# 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.



68.7151, 0.3918, 0.3794



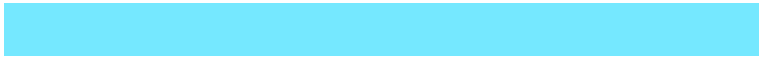
68.7151, 0.2379, 0.3014



68.7151, 0.3721, 0.3143

# Square

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



68.7151, 0.2379, 0.3014



68.7151, 0.2916, 0.2667



68.7151, 0.3938, 0.3478



68.7151, 0.3296, 0.4018

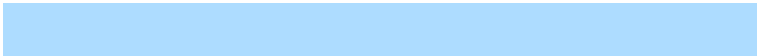


# Rectangle

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



68.7151, 0.2379, 0.3014



68.7151, 0.2494, 0.2639



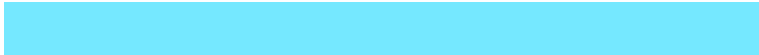
68.7151, 0.3938, 0.3478



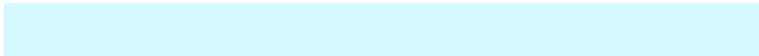
68.7151, 0.3778, 0.3952

# Sweetspot

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



68.7160, 0.2379, 0.3014



88.8082, 0.2881, 0.3220



77.1214, 0.2959, 0.4789



18.7272, 0.2850, 0.3210



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.



68.7160, 0.2379, 0.3014



64.5147, 0.2276, 0.2950



37.9983, 0.2199, 0.2150



19.9362, 0.2980, 0.3249



28.7089, 0.2097, 0.2749



2.9259, 0.2116, 0.2817



# Inverse Universe

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



39.7924, 0.3402, 0.2178



34.0147, 0.3472, 0.2010



67.0107, 0.4170, 0.4190



18.2454, 0.3164, 0.3094



13.6261, 0.3682, 0.1802



1.3399, 0.3619, 0.1767



# Previews

## White Background



This preview shows how the Yxy color 68.7151, 0.2379, 0.3014 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

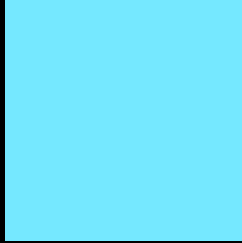
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.7151, 0.2379, 0.3014 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 68.7151, 0.2379, 0.3014**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.7151, 0.2379, 0.3014.

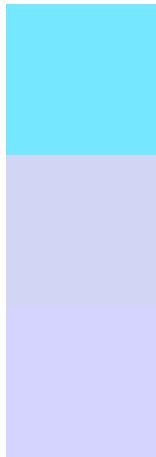


This preview shows how white text looks on a background with the Yxy color 68.7151, 0.2379, 0.3014.

# 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

68.7151, 0.2379, 0.3014

### Protanopia

67.7612, 0.2910, 0.2963

### Deuteranopia

67.9547, 0.2856, 0.2822



## Tritanopia

68.9559, 0.2395, 0.3072

# Trichromacy



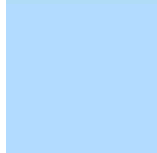
## Original Color

68.7151, 0.2379, 0.3014



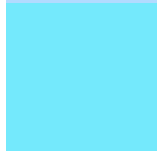
## Protanomaly

67.1319, 0.2677, 0.2981



## Deuteranomaly

67.3480, 0.2645, 0.2885



## Tritanomaly

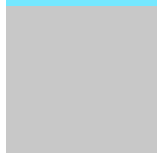
69.0191, 0.2391, 0.3061

# Monochromacy



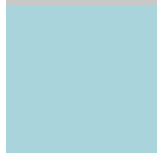
## Original Color

68.7151, 0.2379, 0.3014



## Achromatopsia

57.7580, 0.3127, 0.3290



## Achromatomaly

60.8003, 0.2784, 0.3192

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.7151, 0.2379, 0.3014 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(117, 232, 255)` looks like.

```
.text, #text, p{  
    color:rgb(117, 232, 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(117, 232, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 232, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 68.7151, 0.2379, 0.3014 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(117, 232, 255) }
```

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

```
.border{ border-color:rgb(117, 232, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 232, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 232, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 232, 255);  
box-shadow:4px 4px 4px 4px rgb(117, 232,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.7151, 0.2379, 0.3014 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 232, 255) }
```

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

```
.background{ background-color: rgb(117,  
232, 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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