

# Converting Colors

$Y_{xy}(46.7039, 0.2389, 0.2868)$

Have a look what the booklet for  
Yxy(46.7039, 0.2389, 0.2868)  
contains.

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# Color

**Yxy(46.9013, 0.2390, 0.2869)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6FC1E0
RGB	111, 193, 224
RGB Percent	44%, 76%, 88%
CMY	0.5650, 0.2431, 0.1216
CMYK	0.50, 0.14, 0.00, 0.12
HSL	196°, 65%, 66%
HSV	196°, 50%, 88%
XYZ	39.0708, 46.9013, 77.5040
YIQ	172.0160, -58.8230, -7.7430

# Conversions

## Conversions Part 2

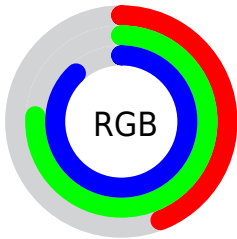
Format	Color
R <sub>Y</sub> B	111, 159, 224
Decimal	7324128
CIE Lab	74.13, -16.71, -23.18
CIE LCh	74, 28.576, 234.222
Yxy	46.9013, 0.2390, 0.2869
Android (android.graphics.Color)	4285514208 (0xFF6FC1E0)
YUV	172.0160, 25.6281, -53.5110
Hunter-Lab	68.4845, -18.0127, -19.1594

# Details

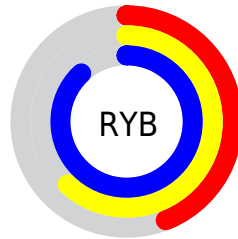
The Yxy color **46.9013, 0.2390, 0.2869** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **36.3051, 0.4356, 0.3656**, and the grayscale version is **41.1455, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.0262, 0.2640, 0.3234**, and **21.9828, 0.2194, 0.2731** is the 20% darker color. If you saturate the color by 10%, you get **42.9720, 0.2273, 0.2769**, and if you desaturate by 10%, it is **51.3108, 0.2521, 0.2965**.

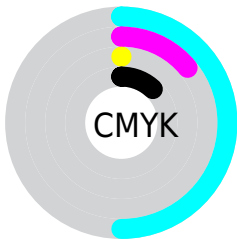
# Distribution



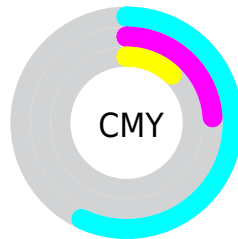
- Red (44%)
- Green (76%)
- Blue (88%)



- Red (44%)
- Yellow (62%)
- Blue (88%)



- Cyan (50%)
- Magenta (14%)
- Yellow (0%)
- Black (12%)




- Cyan (57%)
- Magenta (24%)
- Yellow (12%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.9013, 0.2390, 0.2869 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 46.9013, 0.2390, 0.2869 by changing the saturation by 10% instead.




 46.9013, 0.2390,  
0.2869


 46.9013, 0.2390,  
0.2869


374.4204, 0.2747,  
0.3085


 32.9576, 0.2305,  
0.2814


 85.5663, 0.2517,  
0.2948

 22.0940, 0.2199,  
0.2744


 111.0564, 0.2565,  
0.2978

 13.9260, 0.2063,  
0.2650


 141.1641, 0.2606,  
0.3003

 8.0692, 0.1882,  
0.2520

176.2738, 0.2642,  
0.3024

 4.1393, 0.1633,  
0.2330

216.7699, 0.2673,  
0.3042

 1.7518, 0.1277,  
0.2031

263.0367, 0.2701,

 0.4568, 0.0084,

0.3058

0.1463

315.4588, 0.2725,  
0.3072

0.0000, 0.0000,  
0.0000

46.9013, 0.2390,  
0.2869

46.9013, 0.2390,  
0.2869

42.9720, 0.2273,  
0.2769

51.3108, 0.2521,  
0.2965

39.4885, 0.2173,  
0.2666

56.2215, 0.2663,  
0.3055

36.4194, 0.2092,  
0.2562


61.6590, 0.2813,  
0.3139


33.7255, 0.2032,  
0.2459


67.6457, 0.2966,  
0.3217


31.4457, 0.1990,  
0.2362

74.2023, 0.3120,  
0.3287

 81.3484, 0.3272,  
0.3350

 86.6111, 0.3333,  
0.3409

 90.2042, 0.3325,  
0.3469

 93.9199, 0.3318,  
0.3528

# Harmonies

## Analogous

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



46.9013, 0.2469, 0.3199



46.9013, 0.2390, 0.2869



46.9013, 0.2491, 0.2680

# Triad

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



46.9013, 0.2390, 0.2869



46.9013, 0.3533, 0.3007



46.9013, 0.3475, 0.4008

# Complementary

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



46.9013, 0.2390, 0.2869



36.3051, 0.4356, 0.3656

# 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.



46.9013, 0.3788, 0.3898



46.9013, 0.2390, 0.2869



46.9013, 0.3830, 0.3316

# Square

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



46.9013, 0.2390, 0.2869



46.9013, 0.3133, 0.2770



46.9013, 0.3923, 0.3638



46.9013, 0.3082, 0.3900



# Rectangle

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



46.9013, 0.2390, 0.2869



46.9013, 0.2650, 0.2643



46.9013, 0.3923, 0.3638



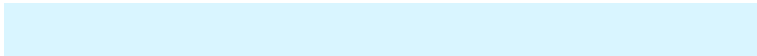
46.9013, 0.3594, 0.3994

# Sweetspot

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



46.9031, 0.2390, 0.2869



86.9499, 0.2895, 0.3182



58.6037, 0.2898, 0.4468



18.2482, 0.2862, 0.3165



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.



46.9031, 0.2390, 0.2869



57.1818, 0.2262, 0.2759



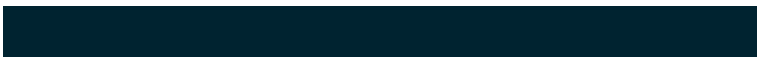
26.7336, 0.2232, 0.2059



14.9042, 0.2982, 0.3224



18.5072, 0.1994, 0.2378



1.4298, 0.2038, 0.2535



# Inverse Universe

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



31.0482, 0.3511, 0.2368



35.0425, 0.3628, 0.2204



57.1989, 0.4004, 0.4264



13.8682, 0.3179, 0.3121



10.7764, 0.4046, 0.2002

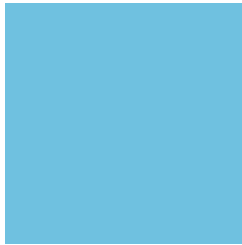


0.7618, 0.3887, 0.1915



# Previews

## White Background



This preview shows how the Yxy color 46.9013, 0.2390, 0.2869 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

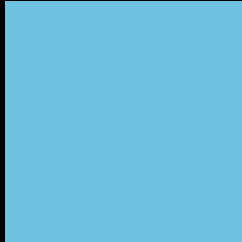
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.9013, 0.2390, 0.2869 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

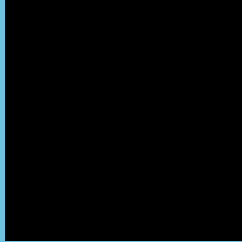
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.9013, 0.2390, 0.2869**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.9013, 0.2390, 0.2869.

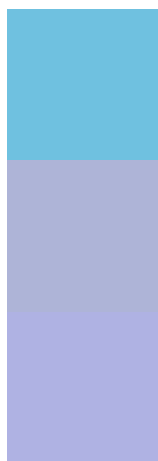


This preview shows how white text looks on a background with the Yxy color 46.9013, 0.2390, 0.2869.

# 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

46.9013, 0.2390, 0.2869

### Protanopia

46.5475, 0.2817, 0.2848

### Deuteranopia

46.5008, 0.2742, 0.2686



## Tritanopia

46.8592, 0.2442, 0.3065

# Trichromacy



**Original Color**

46.9013, 0.2390, 0.2869

**Protanomaly**

46.3392, 0.2638, 0.2858

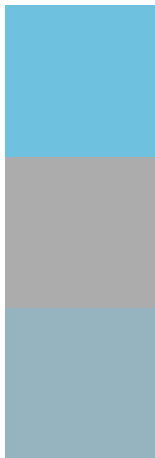
**Deuteranomaly**

46.0334, 0.2593, 0.2737

**Tritanomaly**

46.7296, 0.2418, 0.2984

# Monochromacy



**Original Color**

46.9013, 0.2390, 0.2869

**Achromatopsia**

41.2543, 0.3127, 0.3290

**Achromatomaly**

42.8881, 0.2801, 0.3136

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.9013, 0.2390, 0.2869 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(111, 193, 224)` looks like.

```
.text, #text, p{  
    color:rgb(111, 193, 224)  
}
```

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(111, 193, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(111, 193, 224) }
```

## Border

The CSS property to change the border of an element to Yxy 46.9013, 0.2390, 0.2869 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(111, 193, 224) }
```

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

```
.border{ border-color:rgb(111, 193, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(111, 193, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(111, 193, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(111, 193, 224);  
box-shadow:4px 4px 4px 4px rgb(111, 193,  
224) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.9013, 0.2390, 0.2869 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(111, 193, 224) }
```

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

```
.background{ background-color: rgb(111,  
193, 224) }
```

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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