

# Converting Colors

$Yxy(36.8047, 0.2126, 0.2429)$

Have a look what the booklet for  
Yxy(36.8047, 0.2126, 0.2429)  
contains.

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# Color

**Yxy(36.8047, 0.2126, 0.2429)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	49ACE9
RGB	73, 172, 233
RGB Percent	29%, 67%, 91%
CMY	0.7134, 0.3255, 0.0862
CMYK	0.69, 0.26, 0.00, 0.09
HSL	203°, 78%, 60%
HSV	203°, 69%, 91%
XYZ	32.2136, 36.8047, 82.5037
YIQ	149.3530, -78.5850, -2.0170

# Conversions

## Conversions Part 2

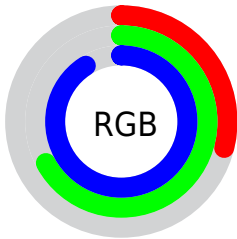
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	73, 134, 233
Decimal	4828393
CIE Lab	67.13, -9.71, -39.01
CIE LCh	67, 40.197, 256.018
Yxy	36.8047, 0.2126, 0.2429
Android (android.graphics.Color)	4283018473 (0xFF49ACE9)
YUV	149.3530, 41.2380, -66.9616
Hunter-Lab	60.6669, -11.3851, -38.1644

# Details

The Yxy color **36.8047, 0.2126, 0.2429** is a light color, and the websafe version is hex **3399CC**. The color can be described as light muted azure. A complement of this color would be **34.8869, 0.4871, 0.3920**, and the grayscale version is **30.0691, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.5614, 0.2453, 0.2960**, and **16.6073, 0.1946, 0.2206** is the 20% darker color. If you saturate the color by 10%, you get **32.7873, 0.2026, 0.2280**, and if you desaturate by 10%, it is **41.3920, 0.2245, 0.2576**.

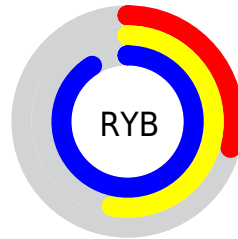
# Distribution



Red (29%)

Green (67%)

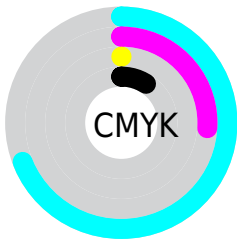
Blue (91%)



Red (29%)

Yellow (53%)

Blue (91%)

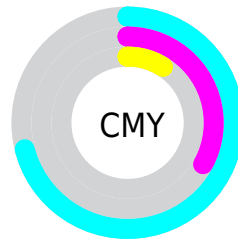


Cyan (69%)

Magenta (26%)

Yellow (0%)

Black (9%)



Cyan (71%)

Magenta (33%)

Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.8047, 0.2126, 0.2429 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 36.8047, 0.2126, 0.2429 by changing the saturation by 10% instead.



■ 36.8047, 0.2126,  
0.2429

■ 36.8047, 0.2126,  
0.2429

■ 332.4642, 0.2620,  
0.2867

■ 25.0563, 0.2008,  
0.2320

■ 70.2723, 0.2302,  
0.2588

■ 16.1190, 0.1860,  
0.2183

■ 92.7603, 0.2370,  
0.2648

■ 9.6084, 0.1672,  
0.2004

■ 119.5970, 0.2427,  
0.2699

■ 5.1401, 0.1428,  
0.1765

■ 151.1667, 0.2476,  
0.2742

■ 2.3297, 0.1106,  
0.1437

■ 187.8539, 0.2519,  
0.2780

■ 0.7894, 0.0643,  
0.0989

■ 230.0430, 0.2557,

■ 0.0000, 0.0000,

0.2813

0.0000

278.1183, 0.2590,  
0.2842

■ 36.8047, 0.2126,  
0.2429

■ 36.8047, 0.2126,  
0.2429

■ 32.7873, 0.2026,  
0.2280

■ 41.3920, 0.2245,  
0.2576

■ 29.2911, 0.1946,  
0.2132

■ 46.5836, 0.2380,  
0.2719

■ 26.2536, 0.1888,  
0.1988

■ 52.4149, 0.2527,  
0.2855

■ 25.8626, 0.1880,  
0.1969

■ 58.9170, 0.2680,  
0.2983

■ 66.1184, 0.2837,  
0.3100

■ 74.0458, 0.2994,  
0.3206

■ 82.7240, 0.3148,  
0.3303

■ 91.3142, 0.3267,  
0.3389

■ 96.7683, 0.3259,  
0.3474

# Harmonies

## Analogous

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



36.8047, 0.2050, 0.2751



36.8047, 0.2126, 0.2429



36.8047, 0.2439, 0.2342

# Triad

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



36.8047, 0.2126, 0.2429



36.8047, 0.4106, 0.3177



36.8047, 0.3201, 0.4335

# Complementary

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



36.8047, 0.2126, 0.2429



34.8869, 0.4871, 0.3920

# 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.



36.8047, 0.3778, 0.4368



36.8047, 0.2126, 0.2429



36.8047, 0.4338, 0.3644

# Square

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



36.8047, 0.2126, 0.2429



36.8047, 0.3578, 0.2761



36.8047, 0.4204, 0.4082



36.8047, 0.2633, 0.3914



# Rectangle

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



36.8047, 0.2126, 0.2429



36.8047, 0.2766, 0.2403



36.8047, 0.4204, 0.4082



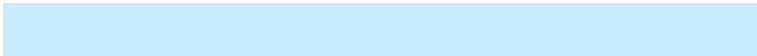
36.8047, 0.3400, 0.4390

# Sweetspot

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



36.8060, 0.2126, 0.2429



78.8697, 0.2798, 0.3072



61.3619, 0.2792, 0.4754



16.3506, 0.2755, 0.3040



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.



36.8060, 0.2126, 0.2429



38.5439, 0.1993, 0.2224



15.3824, 0.1857, 0.1328



16.1004, 0.2981, 0.3198



14.9203, 0.1887, 0.1991



1.3564, 0.1942, 0.2191



# Inverse Universe

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



25.0803, 0.3946, 0.2278



26.3100, 0.4185, 0.2204



64.7382, 0.4200, 0.4666



15.2107, 0.3196, 0.3145



10.9990, 0.4463, 0.2232

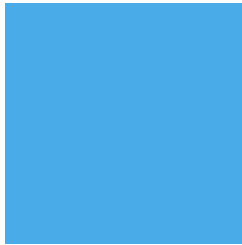


0.8823, 0.4243, 0.2111



# Previews

## White Background



This preview shows how the Yxy color 36.8047, 0.2126, 0.2429 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

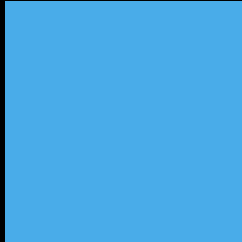
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.8047, 0.2126, 0.2429 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

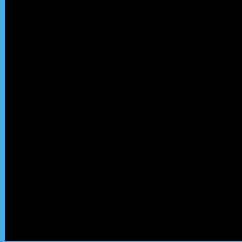
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

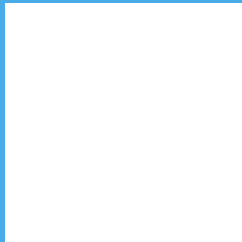
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 36.8047, 0.2126, 0.2429**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.8047, 0.2126, 0.2429.



This preview shows how white text looks on a background with the Yxy color 36.8047, 0.2126, 0.2429.

# 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

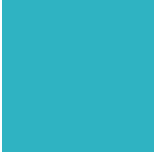
36.8047, 0.2126, 0.2429

### Protanopia

36.3631, 0.2502, 0.2436

### Deuteranopia

36.5324, 0.2369, 0.2305



## **Tritanopia**

36.7396, 0.2244, 0.3050

# Trichromacy



**Original Color**

36.8047, 0.2126, 0.2429

**Protanomaly**

35.9485, 0.2333, 0.2423

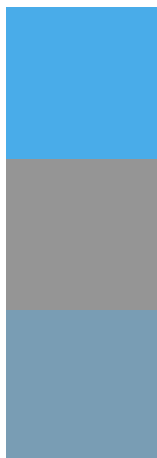
**Deuteranomaly**

36.2879, 0.2258, 0.2340

**Tritanomaly**

36.4455, 0.2192, 0.2799

# Monochromacy



**Original Color**

36.8047, 0.2126, 0.2429

**Achromatopsia**

30.0544, 0.3127, 0.3290

**Achromatomaly**

31.4742, 0.2623, 0.2930

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.8047, 0.2126, 0.2429 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(73, 172, 233)` looks like.

```
.text, #text, p{  
    color:rgb(73, 172, 233)  
}
```

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(73, 172, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 172, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 36.8047, 0.2126, 0.2429 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(73, 172, 233) }
```

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

```
.border{ border-color:rgb(73, 172, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 172, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 172, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 172, 233);  
box-shadow:4px 4px 4px 4px rgb(73, 172,  
233) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.8047, 0.2126, 0.2429 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 172, 233) }
```

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

```
.background{ background-color: rgb(73, 172,  
233) }
```

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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