

# Converting Colors

$Yxy(37.0697, 0.2014, 0.2264)$

Have a look what the booklet for  
Yxy(37.0697, 0.2014, 0.2264)  
contains.

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# **Color**

**Yxy(36.8986, 0.2014, 0.2262)**

# Conversions

## Conversions Part 1

Format	Color
Hex	32ACF7
RGB	50, 172, 247
RGB Percent	20%, 67%, 97%
CMY	0.8040, 0.3255, 0.0314
CMYK	0.80, 0.30, 0.00, 0.03
HSL	203°, 92%, 58%
HSV	203°, 80%, 97%
XYZ	32.8531, 36.8986, 93.3721
YIQ	144.0720, -96.7870, -2.5390

# Conversions

## Conversions Part 2

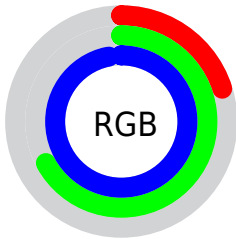
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	50, 125, 247
Decimal	3321079
CIE <sub>Lab</sub>	67.20, -7.72, -46.56
CIE <sub>LCh</sub>	67, 47.199, 260.580
Y <sub>xy</sub>	36.8986, 0.2014, 0.2262
Android (android.graphics.Color)	4281511159 (0xFF32ACF7)
Y <sub>UV</sub>	144.0720, 50.7435, -82.5011
Hunter-Lab	60.7442, -9.7618, -48.6158

# Details

The Yxy color **36.8986, 0.2014, 0.2262** is a light color, and the websafe version is hex **3399CC**. The color can be described as light washed azure. A complement of this color would be **34.6592, 0.5245, 0.3930**, and the grayscale version is **27.7407, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.5938, 0.2402, 0.2955**, and **17.1506, 0.1898, 0.2033** is the 20% darker color. If you saturate the color by 10%, you get **32.9797, 0.1938, 0.2115**, and if you desaturate by 10%, it is **41.4111, 0.2112, 0.2411**.

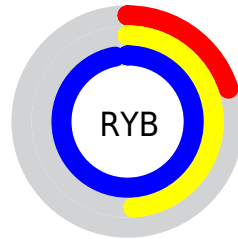
# Distribution



Red (20%)

Green (67%)

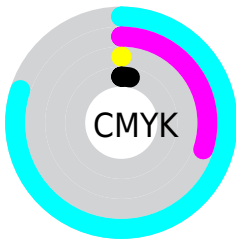
Blue (97%)



Red (20%)

Yellow (49%)

Blue (97%)

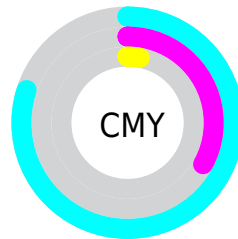


Cyan (80%)

Magenta (30%)

Yellow (0%)

Black (3%)



Cyan (80%)

Magenta (33%)


Yellow (3%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.8986, 0.2014, 0.2262 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 36.8986, 0.2014, 0.2262 by changing the saturation by 10% instead.





 36.8986, 0.2014,  
0.2262


 36.8986, 0.2014,  
0.2262


332.8713, 0.2557,  
0.2775


 25.1290, 0.1887,  
0.2139


 70.4168, 0.2206,  
0.2446

 16.1732, 0.1731,  
0.1985


 92.9342, 0.2279,  
0.2516


 9.6468, 0.1535,  
0.1789


 119.8030, 0.2343,  
0.2575

 5.1654, 0.1286,  
0.1536

 151.4075, 0.2397,  
0.2627

 2.3446, 0.0970,  
0.1205

 188.1322, 0.2445,  
0.2671

 0.7972, 0.0558,  
0.0782

230.3615, 0.2487,

 0.0000, 0.0000,

0.2710

0.0000

278.4797, 0.2524,  
0.2745

■ 36.8986, 0.2014,  
0.2262

■ 36.8986, 0.2014,  
0.2262

■ 32.9797, 0.1938,  
0.2115

■ 41.4111, 0.2112,  
0.2411

■ 29.5684, 0.1881,  
0.1971

■ 46.5662, 0.2229,  
0.2559

■ 29.4910, 0.1880,  
0.1968

■ 52.4102, 0.2363,  
0.2703

■ 58.9828, 0.2508,  
0.2840

■ 66.3202, 0.2661,  
0.2968

■ 74.4556, 0.2818,  
0.3087

■ 83.4197, 0.2976,  
0.3195

■ 93.2417, 0.3131,  
0.3292

■ 99.4944, 0.3174,  
0.3367

# Harmonies

## Analogous

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



36.8986, 0.1886, 0.2578



36.8986, 0.2014, 0.2262



36.8986, 0.2406, 0.2210

# Triad

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



36.8986, 0.2014, 0.2262



36.8986, 0.4345, 0.3226



36.8986, 0.3093, 0.4488

# Complementary

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



36.8986, 0.2014, 0.2262



34.6592, 0.5245, 0.3930

# 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.



36.8986, 0.3773, 0.4576



36.8986, 0.2014, 0.2262



36.8986, 0.4544, 0.3758

# Square

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



36.8986, 0.2014, 0.2262



36.8986, 0.3761, 0.2743



36.8986, 0.4314, 0.4258



36.8986, 0.2457, 0.3924



# Rectangle

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



36.8986, 0.2014, 0.2262



36.8986, 0.2801, 0.2303



36.8986, 0.4314, 0.4258



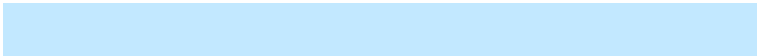
36.8986, 0.3324, 0.4574

# Sweetspot

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



36.8998, 0.2014, 0.2262



76.2115, 0.2751, 0.3037



68.5997, 0.2793, 0.5029



15.6513, 0.2695, 0.2995



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.



36.8998, 0.2014, 0.2262



33.0665, 0.1900, 0.2023



12.5960, 0.1688, 0.1027



17.6364, 0.2980, 0.3198



15.8820, 0.1887, 0.1992



1.5938, 0.1937, 0.2172



# Inverse Universe

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



25.0300, 0.4141, 0.2208



24.0840, 0.4424, 0.2226



71.5650, 0.4323, 0.4781



16.6551, 0.3196, 0.3144



11.7027, 0.4462, 0.2232

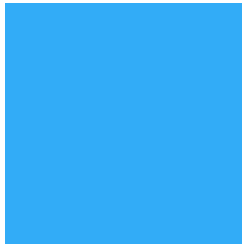


1.0485, 0.4262, 0.2122



# Previews

## White Background



This preview shows how the Yxy color 36.8986, 0.2014, 0.2262 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

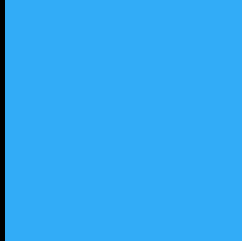
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.8986, 0.2014, 0.2262 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

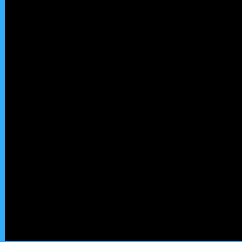
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

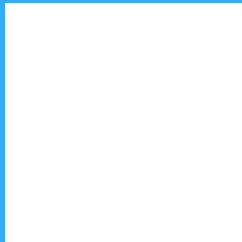
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 36.8986, 0.2014, 0.2262**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.8986, 0.2014, 0.2262.



This preview shows how white text looks on a background with the Yxy color 36.8986, 0.2014, 0.2262.

# 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

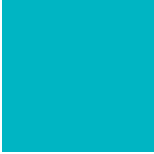
36.8986, 0.2014, 0.2262

### Protanopia

36.5744, 0.2387, 0.2287

### Deuteranopia

36.6022, 0.2227, 0.2167



## Tritanopia

36.9879, 0.2184, 0.3063

# Trichromacy



**Original Color**

36.8986, 0.2014, 0.2262

**Protanomaly**

35.9051, 0.2197, 0.2255

**Deuteranomaly**

36.4294, 0.2125, 0.2200

**Tritanomaly**

36.8244, 0.2107, 0.2741

# Monochromacy



**Original Color**

36.8986, 0.2014, 0.2262

**Achromatopsia**

27.8894, 0.3127, 0.3290

**Achromatomaly**

29.7624, 0.2527, 0.2857

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.8986, 0.2014, 0.2262 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(50, 172, 247)` looks like.

```
.text, #text, p{  
    color:rgb(50, 172, 247)  
}
```

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(50, 172, 247) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 172, 247) }
```

## Border

The CSS property to change the border of an element to Yxy 36.8986, 0.2014, 0.2262 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(50, 172, 247) }
```

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

```
.border{ border-color:rgb(50, 172, 247) }
```

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

Here you see how a box with a 4 pixel rgb(50, 172, 247) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 172, 247); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 172, 247);  
box-shadow:4px 4px 4px 4px rgb(50, 172,  
247) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.8986, 0.2014, 0.2262 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 172, 247) }
```

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

```
.background{ background-color: rgb(50, 172,  
247) }
```

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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