

# Converting Colors

$Yxy(37.3965, 0.2030, 0.2407)$

Have a look what the booklet for  
Yxy(37.3965, 0.2030, 0.2407)  
contains.

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# Color

**Yxy(37.5638, 0.2031, 0.2413)**

# Conversions

## Conversions Part 1

Format	Color
Hex	22B0EE
RGB	34, 176, 238
RGB Percent	13%, 69%, 93%
CMY	0.8671, 0.3098, 0.0666
CMYK	0.86, 0.26, 0.00, 0.07
HSL	198°, 86%, 53%
HSV	198°, 86%, 93%
XYZ	31.6171, 37.5638, 86.4917
YIQ	140.6100, -104.5340, -10.8220

# Conversions

## Conversions Part 2

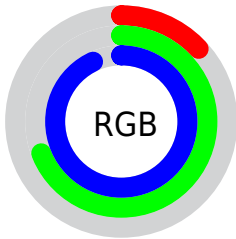
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	34, 118, 238
Decimal	2273518
CIE Lab	67.70, -14.32, -40.92
CIE LCh	68, 43.354, 250.707
Yxy	37.5638, 0.2031, 0.2413
Android (android.graphics.Color)	4280463598 (0xFF22B0EE)
YUV	140.6100, 48.0133, -93.4970
Hunter-Lab	61.2893, -15.1741, -40.7677

# Details

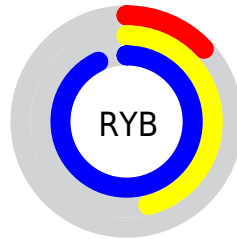
The Yxy color **37.5638, 0.2031, 0.2413** is a light color, and the websafe version is hex **0099CC**. The color can be described as light washed azure. A complement of this color would be **26.6452, 0.5601, 0.3757**, and the grayscale version is **26.3033, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.7151, 0.2379, 0.3014**, and **17.7927, 0.1949, 0.2216** is the 20% darker color. If you saturate the color by 10%, you get **34.5311, 0.1977, 0.2298**, and if you desaturate by 10%, it is **41.0292, 0.2105, 0.2530**.

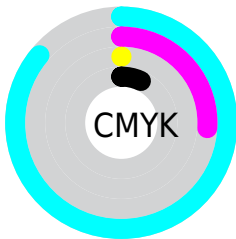
# Distribution



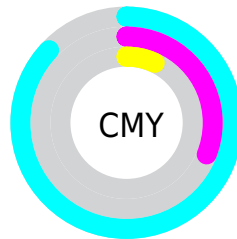
- Red (13%)
- Green (69%)
- Blue (93%)



- Red (13%)
- Yellow (46%)
- Blue (93%)



- Cyan (86%)
- Magenta (26%)
- Yellow (0%)
- Black (7%)




- Cyan (87%)
- Magenta (31%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.5638, 0.2031, 0.2413 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 37.5638, 0.2031, 0.2413 by changing the saturation by 10% instead.




 37.5638, 0.2031,  
0.2413


 37.5638, 0.2031,  
0.2413


335.7451, 0.2566,  
0.2861

 25.6443, 0.1905,  
0.2302


 71.4391, 0.2220,  
0.2576


 16.5577, 0.1750,  
0.2162


 94.1636, 0.2293,  
0.2637


 9.9197, 0.1554,  
0.1980


 121.2587, 0.2355,  
0.2689

 5.3457, 0.1304,  
0.1739

 153.1086, 0.2409,  
0.2733

 2.4515, 0.0982,  
0.1411

 190.0978, 0.2456,  
0.2771

 0.8522, 0.0526,  
0.0973

232.6107, 0.2497,

 0.0000, 0.0000,

0.2805

0.0000

281.0317, 0.2533,  
0.2834

■ 37.5638, 0.2031,  
0.2413

■ 37.5638, 0.2031,  
0.2413

■ 34.5311, 0.1977,  
0.2298

■ 41.0292, 0.2105,  
0.2530

■ 33.3413, 0.1958,  
0.2250

■ 44.9755, 0.2199,  
0.2646

■ 49.4464, 0.2312,  
0.2760

■ 54.4788, 0.2441,  
0.2871

■ 60.1052, 0.2581,  
0.2975

■ 66.3555, 0.2730,  
0.3073

■ 73.2570, 0.2883,  
0.3164

■ 80.8352, 0.3038,  
0.3246

■ 89.1141, 0.3192,  
0.3320

# Harmonies

## Analogous

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



37.5638, 0.1996, 0.2796



37.5638, 0.2031, 0.2413



37.5638, 0.2318, 0.2282

# Triad

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



37.5638, 0.2031, 0.2413



37.5638, 0.4094, 0.3082



37.5638, 0.3313, 0.4453

# Complementary

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



37.5638, 0.2031, 0.2413



26.6452, 0.5601, 0.3757

# 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.



37.5638, 0.3914, 0.4406



37.5638, 0.2031, 0.2413



37.5638, 0.4408, 0.3571

# Square

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



37.5638, 0.2031, 0.2413



37.5638, 0.3491, 0.2661



37.5638, 0.4327, 0.4051



37.5638, 0.2695, 0.4068



# Rectangle

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



37.5638, 0.2031, 0.2413



37.5638, 0.2639, 0.2323



37.5638, 0.4327, 0.4051



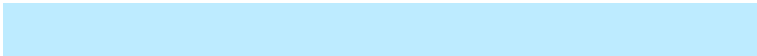
37.5638, 0.3524, 0.4484

# Sweetspot

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



37.5651, 0.2031, 0.2413



77.3353, 0.2725, 0.3070



62.3305, 0.2852, 0.5338



15.9928, 0.2672, 0.3037



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

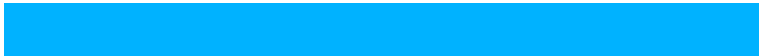


# Same Dimension

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



37.5651, 0.2031, 0.2413



38.8728, 0.1957, 0.2246



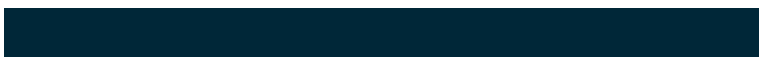
11.5061, 0.1656, 0.1025



17.0711, 0.2981, 0.3217



18.8352, 0.1963, 0.2268



1.7412, 0.2005, 0.2419



# Inverse Universe

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



22.4538, 0.3998, 0.2056



24.4554, 0.4183, 0.2078



58.3186, 0.4491, 0.4714



15.9448, 0.3184, 0.3127



11.6948, 0.4160, 0.2065



0.9905, 0.4004, 0.1979



# Previews

## White Background



This preview shows how the Yxy color 37.5638, 0.2031, 0.2413 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

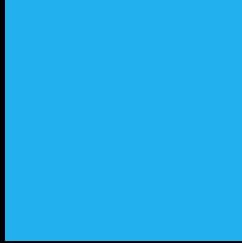
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 37.5638, 0.2031, 0.2413 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

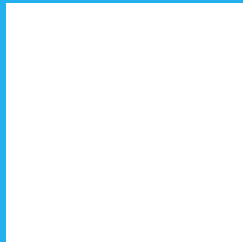
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 37.5638, 0.2031, 0.2413**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.5638, 0.2031, 0.2413.



This preview shows how white text looks on a background with the Yxy color 37.5638, 0.2031, 0.2413.

# 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

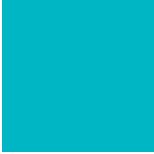
37.5638, 0.2031, 0.2413

### Protanopia

36.9100, 0.2499, 0.2429

### Deuteranopia

37.2911, 0.2330, 0.2276



## Tritanopia

37.4414, 0.2185, 0.3065

# Trichromacy



## Original Color

37.5638, 0.2031, 0.2413



## Protanomaly

35.9287, 0.2248, 0.2402



## Deuteranomaly

36.7294, 0.2168, 0.2312



## Tritanomaly

37.4238, 0.2122, 0.2813

# Monochromacy



## Original Color

37.5638, 0.2031, 0.2413



## Achromatopsia

26.6356, 0.3127, 0.3290



## Achromatomaly

29.0706, 0.2504, 0.2927

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.5638, 0.2031, 0.2413 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(34, 176, 238)` looks like.

```
.text, #text, p{  
    color:rgb(34, 176, 238)  
}
```

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(34, 176, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(34, 176, 238) }
```

## Border

The CSS property to change the border of an element to Yxy 37.5638, 0.2031, 0.2413 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(34, 176, 238) }
```

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

```
.border{ border-color:rgb(34, 176, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(34, 176, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(34, 176, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(34, 176, 238);  
box-shadow:4px 4px 4px 4px rgb(34, 176,  
238) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.5638, 0.2031, 0.2413 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(34, 176, 238) }
```

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

```
.background{ background-color: rgb(34, 176,  
238) }
```

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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