

# Converting Colors

XYZ(33.8990, 38.8233,  
100.3147)

Have a look what the booklet for  
XYZ(33.8990, 38.8233, 100.3147)  
contains.

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# Color

**XYZ(33.8347, 38.6965,  
100.2936)**

# Conversions

## Conversions Part 1

Format	Color
Hex	05B1FF
RGB	5, 177, 255
RGB Percent	2%, 69%, 100%
CMY	0.9801, 0.3059, 0.0000
CMYK	0.98, 0.31, 0.00, 0.00
HSL	199°, 100%, 51%
HSV	199°, 98%, 100%
XYZ	33.8347, 38.6965, 100.2936
YIQ	134.4640, -127.5500, -12.2060

# Conversions

## Conversions Part 2

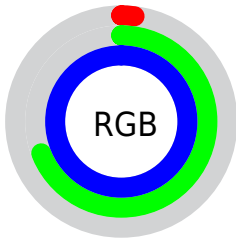
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	5, 107, 255
Decimal	373247
CIE Lab	68.53, -10.00, -48.85
CIE LCh	69, 49.866, 258.435
Yxy	38.6965, 0.1958, 0.2239
Android (android.graphics.Color)	4278563327 (0xFF05B1FF)
YUV	134.4640, 59.4242, -113.5399
Hunter-Lab	62.2065, -11.7736, -52.0468

# Details

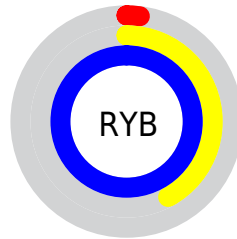
The XYZ color **33.8347, 38.6965, 100.2936** is a dark color, and the websafe version is hex **3399CC**. The color can be described as middle saturated azure. A complement of this color would be **44.3668, 27.4691, 3.1094**, and the grayscale version is **22.6611, 23.8413, 25.9631**.

A 20% lighter version of the original color is **53.7167, 68.4439, 104.9876**, and **17.5267, 18.7444, 56.1204** is the 20% darker color. If you saturate the color by 10%, you get **33.4613, 38.0427, 100.1871**, and if you desaturate by 10%, it is **35.9430, 42.1859, 100.8560**.

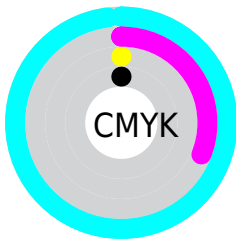
# Distribution



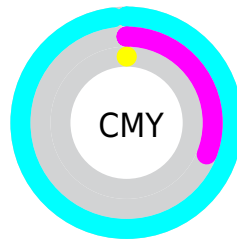
- Red (2%)
- Green (69%)
- Blue (100%)



- Red (2%)
- Yellow (42%)
- Blue (100%)



- Cyan (98%)
- Magenta (31%)
- Yellow (0%)
- Black (0%)



- Cyan (98%)
- Magenta (31%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.8347, 38.6965, 100.2936 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 XYZ color 33.8347, 38.6965, 100.2936 by changing the saturation by 10% instead.



■ 33.8347, 38.6965,  
100.2936

■ 33.8347, 38.6965,  
100.2936

310.9933,  
340.5984, 582.3883

■ 22.9289, 26.5237,  
75.9275

■ 65.0225, 73.1744,  
163.6160

■ 14.6614, 17.2158,  
55.8668

■ 86.0353, 96.2484,  
203.4094

■ 8.6669, 10.3885,  
39.6928

■ 111.1478,  
123.7248, 249.1823

■ 4.5799, 5.6573,  
26.9872

■ 140.7253,  
155.9882, 301.3532

■ 2.0352, 2.6378,  
17.3312

■ 175.1333,  
193.4228, 360.3407

■ 0.6536, 0.9457,  
10.3065

214.7370,

■ 0.0000, 0.0000,

236.4131, 426.5634

5.4944

259.9019,  
285.3435, 500.4397

■ 0.0000, 0.0000,  
2.4764

■ 0.0000, 0.0000,  
0.8276

■ 33.8347, 38.6965,  
100.2936

■ 33.8347, 38.6965,  
100.2936

■ 33.4613, 38.0427,  
100.1871

■ 35.9430, 42.1859,  
100.8560

■ 38.7370, 46.1667,  
101.4772

■ 42.3508, 50.7106,  
102.1637

■ 46.8825, 55.8704,  
102.9208

■ 52.4156, 61.6912,  
103.7527

■ 59.0236, 68.2129,  
104.6633

■ 66.7726, 75.4716,  
105.6559

■ 75.7231, 83.5005,  
106.7339

■ 85.9314, 92.3305,  
107.9002

# Harmonies

## Analogous

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



27.6430, 38.6965, 83.4829



33.8347, 38.6965, 100.2936



41.7649, 38.6965, 97.9213

# Triad

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



33.8347, 38.6965, 100.2936



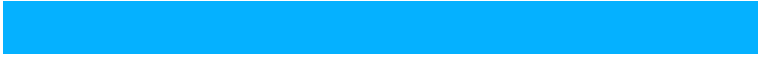
53.0465, 38.6965, 29.8840



26.5987, 38.6965, 19.4608

# Complementary

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



33.8347, 38.6965, 100.2936



44.3668, 27.4691, 3.1094

# 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.



32.2082, 38.6965, 12.9817



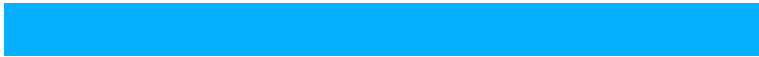
33.8347, 38.6965, 100.2936



47.7362, 38.6965, 17.3523

# Square

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



33.8347, 38.6965, 100.2936



53.6466, 38.6965, 51.4127



39.8912, 38.6965, 12.3794

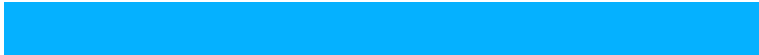


23.8804, 38.6965, 34.0446



# Rectangle

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



33.8347, 38.6965, 100.2936



46.9883, 38.6965, 85.9014



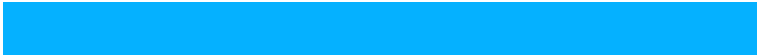
39.8912, 38.6965, 12.3794



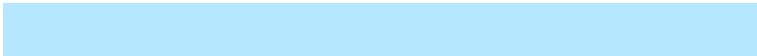
28.1687, 38.6965, 16.5252

# Sweetspot

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



33.8360, 38.6977, 100.2938



65.9522, 74.7186, 105.5538



37.2735, 72.1327, 19.5583



13.3890, 15.3172, 22.5008



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

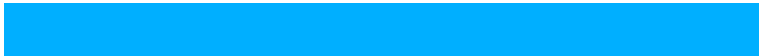


# Same Dimension

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



33.8360, 38.6977, 100.2938



33.4613, 38.0427, 100.1871



19.4826, 9.9909, 95.5093



18.0486, 19.4688, 23.0565



17.6236, 20.1569, 52.3964



1.8136, 2.1579, 5.1342



# Inverse Universe

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



49.2311, 24.5446, 43.7387



49.0189, 24.3716, 42.8933



63.1028, 64.9411, 9.3548



18.5372, 18.1982, 21.4459



25.6838, 12.7628, 22.7831

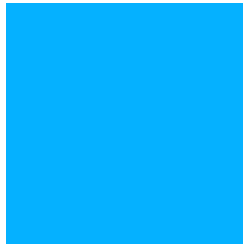


2.5500, 1.2624, 2.4778



# Previews

## White Background



This preview shows how the XYZ color 33.8347, 38.6965, 100.2936 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

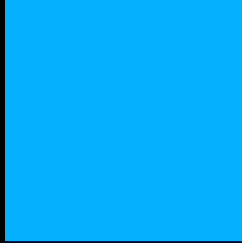
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.8347, 38.6965, 100.2936 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

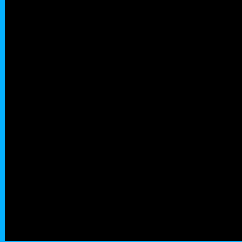
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

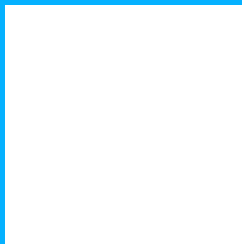
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 33.8347, 38.6965, 100.2936

## Background



This preview shows how black text looks on a background with the XYZ color 33.8347, 38.6965, 100.2936.



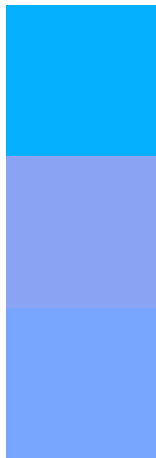
This preview shows how white text looks on a background with the XYZ color 33.8347, 38.6965,



# 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

33.8347, 38.6965, 100.2936

### Protanopia

39.9223, 38.1544, 90.0544

### Deuteranopia

39.4319, 38.4855, 99.9579



## Tritanopia

27.5420, 38.7751, 59.4588

# Trichromacy



**Original Color**

33.8347, 38.6965, 100.2936

**Protanomaly**

35.0076, 36.8943, 93.2719

**Deuteranomaly**

35.5666, 37.5892, 99.9886

**Tritanomaly**

29.5392, 38.5833, 72.9083

# Monochromacy



**Original Color**

33.8347, 38.6965, 100.2936

**Achromatopsia**

22.6597, 23.8398, 25.9615

**Achromatomaly**

22.8727, 27.0533, 46.1358

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.8347, 38.6965, 100.2936 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(5, 177, 255)` looks like.

```
.text, #text, p{  
    color:rgb(5, 177, 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(5, 177, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(5, 177, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 33.8347, 38.6965, 100.2936 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(5, 177, 255) }
```



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

```
.border{ border-color:rgb(5, 177, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(5, 177, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(5, 177, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(5, 177, 255);  
box-shadow:4px 4px 4px 4px rgb(5, 177,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.8347, 38.6965, 100.2936 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(5, 177, 255) }
```

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

```
.background{ background-color: rgb(5, 177,  
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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