

Converting Colors

XYZ(33.8335, 38.2975,
107.8040)

Have a look what the booklet for
XYZ(33.8335, 38.2975, 107.8040)
contains.

XYZ(33.5753, 38.2707, 100.2251)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(33.5753, 38.2707,
100.2251)**

Conversions

Conversions Part 1

Format	Color
Hex	00B0FF
RGB	0, 176, 255
RGB Percent	0%, 69%, 100%
CMY	0.9997, 0.3098, 0.0000
CMYK	1.00, 0.31, 0.00, 0.00
HSL	199°, 100%, 50%
HSV	199°, 100%, 100%
XYZ	33.5753, 38.2707, 100.2251
YIQ	132.3820, -130.2550, -12.7430

Conversions

Conversions Part 2

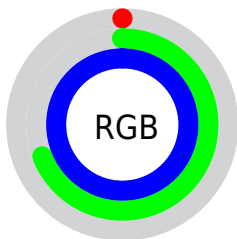
Format	Color
RYB	0, 104, 255
Decimal	45311
CIELab	68.22, -9.56, -49.35
CIELCh	68, 50.264, 259.031
Yxy	38.2707, 0.1951, 0.2224
Android (android.graphics.Color)	4278235391 (0xFF00B0FF)
YUV	132.3820, 60.4507, -116.0990
Hunter-Lab	61.8633, -11.3829, -52.7517

Details

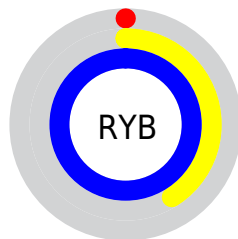
The XYZ color **33.5753, 38.2707, 100.2251** is a dark color, and the websafe version is hex **3399CC**. The color can be described as middle saturated azure. A complement of this color would be **44.0414, 26.8621, 2.8657**, and the grayscale version is **21.9003, 23.0408, 25.0915**.

A 20% lighter version of the original color is **53.4360, 67.8825, 104.8940**, and **17.4007, 18.4925, 56.0784** is the 20% darker color. If you saturate the color by 10%, you get **33.5714, 38.2628, 100.2238**, and if you desaturate by 10%, it is **35.5857, 41.6751, 100.7763**.

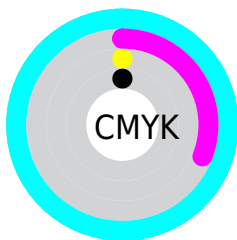
Distribution



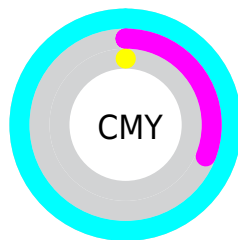
- Red (0%)
- Green (69%)
- Blue (100%)



- Red (0%)
- Yellow (41%)
- Blue (100%)



- Cyan (100%)
- Magenta (31%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (31%)
- Yellow (0%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 33.5753, 38.2707, 100.2251 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 33.5753, 38.2707, 100.2251 by changing the saturation by 10% instead.

■ 33.5753, 38.2707,
100.2251

■ 33.5753, 38.2707,
100.2251

309.8535,
338.7798, 582.1670

■ 22.7289, 26.1929,
75.8706

■ 64.6214, 72.5229,
163.5211

■ 14.5130, 16.9680,
55.8204

■ 85.5517, 95.4660,
203.2996

■ 8.5624, 10.2117,
39.6559

■ 110.5741,
122.7996, 249.0566

■ 4.5117, 5.5395,
26.9586

■ 140.0538,
154.9082, 301.2106

■ 1.9955, 2.5672,
17.3100

■ 174.3562,
192.1761, 360.1800

■ 0.6314, 0.9102,
10.2915

213.8468,

■ 0.0000, 0.0000,

234.9877, 426.3836

5.4845

258.8907,
283.7275, 500.2397

■ 0.0000, 0.0000,
2.4706

■ 0.0000, 0.0000,
0.8245

■ 33.5753, 38.2707,
100.2251

■ 33.5753, 38.2707,
100.2251

■ 33.5714, 38.2628,
100.2238

■ 35.5857, 41.6751,
100.7763

■ 38.2259, 45.5398,
101.3831

■ 41.6628, 49.9534,
102.0539

■ 45.9985, 54.9707,
102.7938

■ 51.3187, 60.6381,
103.6073

■ 57.6988, 66.9961,
104.4982

■ 65.2059, 74.0816,
105.4702

■ 73.9017, 81.9282,
106.5264

■ 83.8432, 90.5671,
107.6699

Harmonies

Analogous

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



27.3407, 38.2707, 83.6286



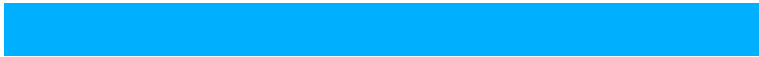
33.5753, 38.2707, 100.2251



41.5280, 38.2707, 97.4246

Triad

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



33.5753, 38.2707, 100.2251



52.6102, 38.2707, 29.0923



26.1175, 38.2707, 19.2505

Complementary

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



33.5753, 38.2707, 100.2251



44.0414, 26.8621, 2.8657

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.



31.6672, 38.2707, 12.6888



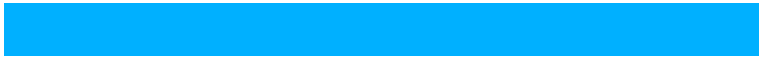
33.5753, 38.2707, 100.2251



47.2083, 38.2707, 16.7921

Square

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



33.5753, 38.2707, 100.2251



53.3166, 38.2707, 50.4581



39.3265, 38.2707, 11.9892



23.4665, 38.2707, 33.9671

Rectangle

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



33.5753, 38.2707, 100.2251



46.7443, 38.2707, 85.1337



39.3265, 38.2707, 11.9892



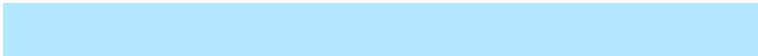
27.6654, 38.2707, 16.2843

Sweetspot

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



33.5766, 38.2719, 100.2253



65.1833, 74.0608, 105.4674



37.0846, 72.0499, 18.8906



13.2444, 15.1934, 22.4845



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.



33.5766, 38.2719, 100.2253



33.5714, 38.2628, 100.2238



19.2372, 9.5931, 95.4455



18.0521, 19.4758, 23.0577



17.6807, 20.2710, 52.4154



1.8188, 2.1683, 5.1359

Inverse Universe

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



49.0774, 24.3962, 43.1976



49.0745, 24.3938, 43.1858



62.8366, 64.4527, 9.1308



18.5389, 18.1989, 21.4552



25.7126, 12.7743, 22.9349



2.5527, 1.2634, 2.4917

Previews

White Background



This preview shows how the XYZ color 33.5753, 38.2707, 100.2251 looks on a white background.

Color Contrast Check

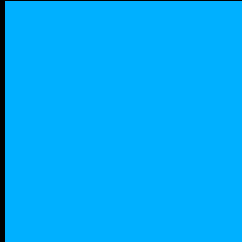
Large Text (above 18pt) WCAG AA × Fail

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 33.5753, 38.2707, 100.2251 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

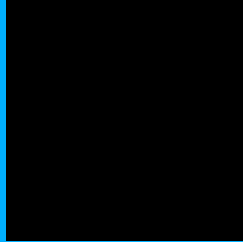
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

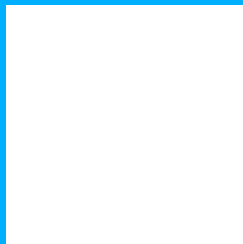
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 33.5753, 38.2707, 100.2251

Background



This preview shows how black text looks on a background with the XYZ color 33.5753, 38.2707, 100.2251.



This preview shows how white text looks on a background with the XYZ color 33.5753, 38.2707,

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

33.5753, 38.2707, 100.2251

Protanopia

39.7307, 37.7756, 90.7853

Deuteranopia

39.1129, 38.0522, 99.8911



Tritanopia

27.2185, 38.3122, 58.7838

Trichromacy



Original Color

33.5753, 38.2707, 100.2251

Protanomaly

34.7865, 36.4895, 94.0167

Deuteranomaly

35.2185, 37.1324, 99.9188

Tritanomaly

29.1788, 38.1097, 72.1477

Monochromacy



Original Color

33.5753, 38.2707, 100.2251

Achromatopsia

21.9318, 23.0740, 25.1276

Achromatomaly

22.1819, 26.2390, 45.4905

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.5753, 38.2707, 100.2251 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(0, 176, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 176, 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(0, 176, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 176, 255) }
```

Border

The CSS property to change the border of an element to XYZ 33.5753, 38.2707, 100.2251 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(0, 176, 255) }
```


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

```
.border{ border-color:rgb(0, 176, 255) }
```

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

Here you see how a box with a 4 pixel rgb(0, 176, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 176, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 176, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 176,  
255) }
```

Background

The CSS property to change the background color of an element to XYZ 33.5753, 38.2707, 100.2251 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 176, 255) }
```

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

```
.background{ background-color: rgb(0, 176,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor