

Converting Colors

XYZ(14.0065, 27.7570,
109.5930)

Have a look what the booklet for
XYZ(14.0065, 27.7570, 109.5930)
contains.

XYZ(33.3800, 37.8799, 100.1600)	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>	30

Color

**XYZ(33.3800, 37.8799,
100.1600)**

Conversions

Conversions Part 1

Format	Color
Hex	00AFFF
RGB	0, 175, 255
RGB Percent	0%, 69%, 100%
CMY	0.9997, 0.3137, 0.0000
CMYK	1.00, 0.31, 0.00, 0.00
HSL	199°, 100%, 50%
HSV	199°, 100%, 100%
XYZ	33.3800, 37.8799, 100.1600
YIQ	131.7950, -129.9800, -12.2200

Conversions

Conversions Part 2

Format	Color
RYB	0, 104, 255
Decimal	45055
CIELab	67.93, -9.01, -49.80
CIELCh	68, 50.608, 259.744
Yxy	37.8799, 0.1947, 0.2210
Android (android.graphics.Color)	4278235135 (0xFF00AFFF)
YUV	131.7950, 60.7401, -115.5842
Hunter-Lab	61.5466, -10.8967, -53.4049

Details

The XYZ color **33.3800, 37.8799, 100.1600** is a dark color, and the websafe version is hex **0099FF**. The color can be described as middle saturated azure. A complement of this color would be **44.1150, 27.0092, 2.8905**, and the grayscale version is **21.6894, 22.8190, 24.8499**.

A 20% lighter version of the original color is **53.1569, 67.3243, 104.8010**, and **17.2760, 18.2431, 56.0368** is the 20% darker color. If you saturate the color by 10%, you get **33.3753, 37.8706, 100.1584**, and if you desaturate by 10%, it is **35.3997, 41.3027, 100.7142**.

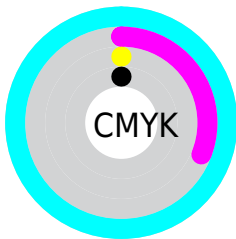
Distribution



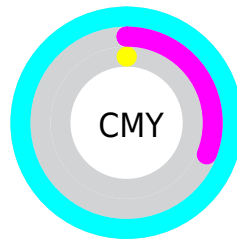
- Red (0%)
- Green (69%)
- Blue (100%)



- 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 33.3800, 37.8799, 100.1600 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 33.3800, 37.8799, 100.1600 by changing the saturation by 10% instead.

■ 33.3800, 37.8799,
100.1600

■ 33.3800, 37.8799,
100.1600

308.9934,
337.1045, 581.9566

■ 22.5783, 25.8895,
75.8165

■ 64.3191, 71.9240,
163.4308

■ 14.4014, 16.7410,
55.7763

■ 85.1872, 94.7465,
203.1953

■ 8.4840, 10.0500,
39.6208

■ 110.1415,
121.9485, 248.9372

■ 4.4606, 5.4321,
26.9315

■ 139.5473,
153.9144, 301.0750

■ 1.9658, 2.5030,
17.2898

■ 173.7701,
191.0285, 360.0273

■ 0.6147, 0.8781,
10.2772

213.1751,

■ 0.0000, 0.0000,

233.6753, 426.2126

5.4751

258.1278,
282.2392, 500.0496

■ 0.0000, 0.0000,
2.4651

■ 0.0000, 0.0000,
0.8216

■ 33.3800, 37.8799,
100.1600

■ 33.3800, 37.8799,
100.1600

■ 33.3753, 37.8706,
100.1584

■ 35.3997, 41.3027,
100.7142

■ 38.0515, 45.1903,
101.3248

■ 41.5023, 49.6313,
102.0001

■ 45.8542, 54.6806,
102.7454

■ 51.1931, 60.3846,
103.5650

■ 57.5942, 66.7841,
104.4628

■ 65.1248, 73.9160,
105.4425

■ 73.8467, 81.8140,
106.5073

■ 83.8168, 90.5095,
107.6602

Harmonies

Analogous

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



27.0960, 37.8799, 83.8667



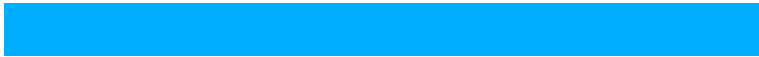
33.3800, 37.8799, 100.1600



41.3530, 37.8799, 96.8501

Triad

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



33.3800, 37.8799, 100.1600



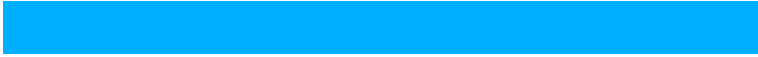
52.1795, 37.8799, 28.2856



25.6599, 37.8799, 19.1254

Complementary

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



33.3800, 37.8799, 100.1600



44.1150, 27.0092, 2.8905

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.



31.1369, 37.8799, 12.4516



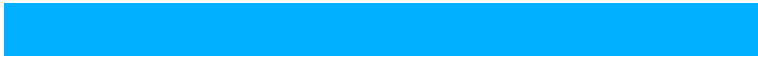
33.3800, 37.8799, 100.1600



46.6767, 37.8799, 16.2506

Square

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



33.3800, 37.8799, 100.1600



53.0123, 37.8799, 49.4388



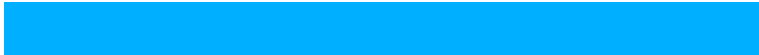
38.7614, 37.8799, 11.6364



23.0884, 37.8799, 34.0101

Rectangle

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



33.3800, 37.8799, 100.1600



46.5538, 37.8799, 84.2661



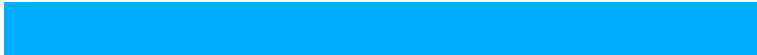
38.7614, 37.8799, 11.6364



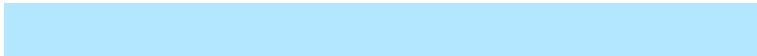
27.1816, 37.8799, 16.1174

Sweetspot

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



33.3813, 37.8811, 100.1601



65.0989, 73.8920, 105.4392



37.0850, 72.0501, 18.8919



13.2242, 15.1529, 22.4778



0.0000, 0.0000, 0.0000



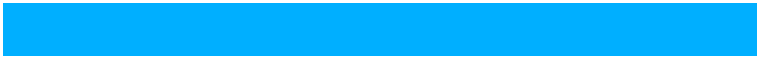
20.3446, 21.4041, 23.3091

Same Dimension

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



33.3813, 37.8811, 100.1601



33.3753, 37.8706, 100.1584



19.2377, 9.5939, 95.4456



18.0458, 19.4633, 23.0556



17.5790, 20.0676, 52.3815



1.8095, 2.1497, 5.1328

Inverse Universe

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



48.9789, 24.3570, 42.6781



48.9755, 24.3542, 42.6646



62.8372, 64.4536, 9.1313



18.5358, 18.1976, 21.4386



25.6613, 12.7538, 22.6645



2.5480, 1.2616, 2.4669

Previews

White Background



This preview shows how the XYZ color 33.3800, 37.8799, 100.1600 looks on a white background.

Color Contrast Check

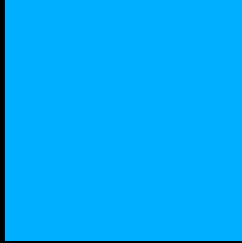
Large Text (above 18pt) WCAG AA × Fail

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 33.3800, 37.8799, 100.1600 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

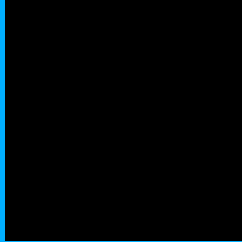
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

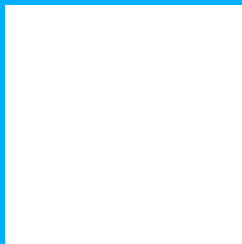
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 33.3800, 37.8799, 100.1600

Background



This preview shows how black text looks on a background with the XYZ color 33.3800, 37.8799, 100.1600.



This preview shows how white text looks on a background with the XYZ color 33.3800, 37.8799,

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

33.3800, 37.8799, 100.1600

Protanopia

39.5660, 37.6907, 90.7776

Deuteranopia

38.6616, 37.5528, 99.8185

Trichromacy



Original Color

33.3800, 37.8799, 100.1600

Protanomaly

34.6925, 36.4410, 94.0123

Deuteranomaly

34.8767, 36.6811, 99.8497

Monochromacy



Original Color

33.3800, 37.8799, 100.1600

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 33.3800, 37.8799, 100.1600 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, 175, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 175, 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, 175, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 175, 255) }
```

Border

The CSS property to change the border of an element to XYZ 33.3800, 37.8799, 100.1600 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, 175, 255) }
```

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

```
.border{ border-color:rgb(0, 175, 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, 175, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 175, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 175, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 175,  
255) }
```


Background

The CSS property to change the background color of an element to XYZ 33.3800, 37.8799, 100.1600 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 175, 255) }
```

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

```
.background{ background-color: rgb(0, 175,  
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