

# Converting Colors

XYZ(36.4877, 37.6649,  
214.7850)

Have a look what the booklet for  
XYZ(36.4877, 37.6649, 214.7850)  
contains.

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# Color

**XYZ(33.7721, 38.6643,  
100.2907)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B1FF
RGB	0, 177, 255
RGB Percent	0%, 69%, 100%
CMY	0.9997, 0.3059, 0.0000
CMYK	1.00, 0.31, 0.00, 0.00
HSL	198°, 100%, 50%
HSV	198°, 100%, 100%
XYZ	33.7721, 38.6643, 100.2907
YIQ	132.9690, -130.5300, -13.2660

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	0, 104, 255
Decimal	45567
CIE Lab	68.51, -10.11, -48.89
CIE LCh	69, 49.927, 258.312
Yxy	38.6643, 0.1955, 0.2238
Android (android.graphics.Color)	4278235647 (0xFF00B1FF)
YUV	132.9690, 60.1613, -116.6138
Hunter-Lab	62.1806, -11.8676, -52.1020

# Details

The XYZ color **33.7721, 38.6643, 100.2907** 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 **43.9697, 26.7188, 2.8418**, and the grayscale version is **22.1134, 23.2650, 25.3356**.

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 **33.7682, 38.6564, 100.2894**, and if you desaturate by 10%, it is **35.7731, 42.0499, 100.8387**.

# 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 33.7721, 38.6643, 100.2907 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 33.7721, 38.6643, 100.2907 by changing the saturation by 10% instead.



■ 33.7721, 38.6643,  
100.2907

■ 33.7721, 38.6643,  
100.2907

310.7185,  
340.4611, 582.3789

■ 22.8806, 26.4987,  
75.9251

■ 64.9258, 73.1252,  
163.6120

■ 14.6256, 17.1971,  
55.8648

■ 85.9187, 96.1893,  
203.4047

■ 8.6416, 10.3751,  
39.6913

■ 111.0094,  
123.6549, 249.1769

■ 4.5634, 5.6484,  
26.9860

■ 140.5634,  
155.9066, 301.3472

■ 2.0256, 2.6325,  
17.3303

■ 174.9459,  
193.3287, 360.3339

■ 0.6483, 0.9430,  
10.3058

214.5224,

■ 0.0000, 0.0000,

236.3055, 426.5558

5.4940

259.6581,  
285.2215, 500.4313

■ 0.0000, 0.0000,  
2.4761

■ 0.0000, 0.0000,  
0.8275

■ 33.7721, 38.6643,  
100.2907

■ 33.7721, 38.6643,  
100.2907

■ 33.7682, 38.6564,  
100.2894

■ 35.7731, 42.0499,  
100.8387

■ 38.4018, 45.8916,  
101.4417

■ 41.8250, 50.2777,  
102.1079

■ 46.1446, 55.2631,  
102.8425

■ 51.4466, 60.8938,  
103.6499

■ 57.8060, 67.2105,  
104.5340

■ 65.2900, 74.2499,  
105.4982

■ 73.9603, 82.0454,  
106.5460

■ 83.8737, 90.6282,  
107.6801

# Harmonies

## Analogous

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



27.5874, 38.6643, 83.3928



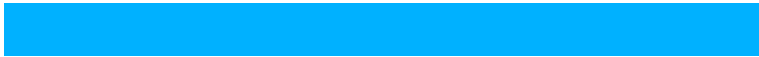
33.7721, 38.6643, 100.2907



41.7044, 38.6643, 98.0001

# Triad

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



33.7721, 38.6643, 100.2907



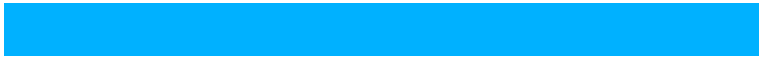
53.0431, 38.6643, 29.9131



26.5802, 38.6643, 19.3772

# Complementary

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



33.7721, 38.6643, 100.2907



43.9697, 26.7188, 2.8418

# 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.



32.2031, 38.6643, 12.9293



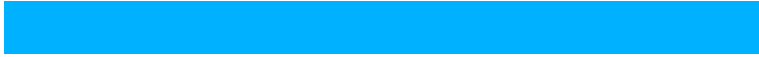
33.7721, 38.6643, 100.2907



47.7435, 38.6643, 17.3451

# Square

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



33.7721, 38.6643, 100.2907



53.6223, 38.6643, 51.4891



39.8964, 38.6643, 12.3492

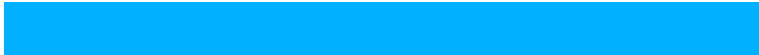


23.8487, 38.6643, 33.9259



# Rectangle

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



33.7721, 38.6643, 100.2907



46.9359, 38.6643, 86.0052



39.8964, 38.6643, 12.3492



28.1547, 38.6643, 16.4531

# Sweetspot

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



33.7734, 38.6655, 100.2909



65.2675, 74.2292, 105.4954



37.0846, 72.0499, 18.8906



13.2646, 15.2337, 22.4912



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.



33.7734, 38.6655, 100.2909



33.7682, 38.6564, 100.2894



19.2372, 9.5931, 95.4455



18.0583, 19.4883, 23.0598



17.7828, 20.4752, 52.4494



1.8282, 2.1870, 5.1391



# Inverse Universe

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



49.1768, 24.4359, 43.7207



49.1738, 24.4335, 43.7090



62.8366, 64.4527, 9.1308



18.5421, 18.2002, 21.4718



25.7641, 12.7949, 23.2062

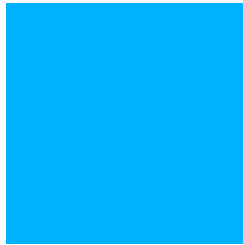


2.5574, 1.2653, 2.5165



# Previews

## White Background



This preview shows how the XYZ color 33.7721, 38.6643, 100.2907 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 33.7721, 38.6643, 100.2907 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

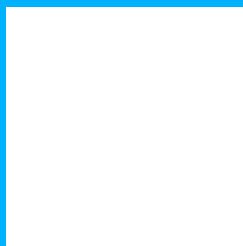
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 33.7721, 38.6643, 100.2907**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.7721, 38.6643, 100.2907.



This preview shows how white text looks on a background with the XYZ color 33.7721, 38.6643,



# 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

33.7721, 38.6643, 100.2907

### Protanopia

39.9223, 38.1544, 90.0544

### Deuteranopia

39.4319, 38.4855, 99.9579



## Tritanopia

27.5420, 38.7751, 59.4588

# Trichromacy



**Original Color**

33.7721, 38.6643, 100.2907

**Protanomaly**

34.8156, 36.7954, 93.2629

**Deuteranomaly**

35.4052, 37.5060, 99.9811

**Tritanomaly**

29.5141, 38.5704, 72.9071

# Monochromacy



**Original Color**

33.7721, 38.6643, 100.2907

**Achromatopsia**

22.2940, 23.4551, 25.5426

**Achromatomaly**

22.4296, 26.6005, 45.5472

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.7721, 38.6643, 100.2907 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, 177, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 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(0, 177, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 177, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 33.7721, 38.6643, 100.2907 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, 177, 255) }
```



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

```
.border{ border-color:rgb(0, 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(0, 177, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 177, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 177, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 177,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.7721, 38.6643, 100.2907 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 177, 255) }
```

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

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