

# Converting Colors

XYZ(23.0649, 32.7357, 98.2056)

Have a look what the booklet for  
XYZ(23.0649, 32.7357, 98.2056)  
contains.

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# Color

**XYZ(33.0596, 37.7518,  
98.4729)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00AFFD
RGB	0, 175, 253
RGB Percent	0%, 69%, 99%
CMY	0.9997, 0.3137, 0.0078
CMYK	1.00, 0.31, 0.00, 0.01
HSL	199°, 100%, 50%
HSV	199°, 100%, 99%
XYZ	33.0596, 37.7518, 98.4729
YIQ	131.5670, -129.3380, -12.8420

# Conversions

## Conversions Part 2

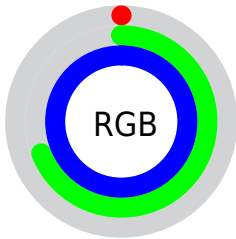
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 103, 253
Decimal	45053
CIELab	67.84, -9.73, -48.86
CIELCh	68, 49.825, 258.733
Yxy	37.7518, 0.1953, 0.2230
Android (android.graphics.Color)	4278235133 (0xFF00AFFD)
YUV	131.5670, 59.8665, -115.3843
Hunter-Lab	61.4425, -11.4811, -52.0134

# Details

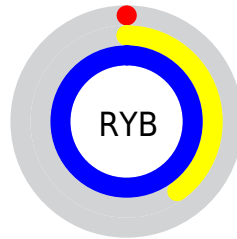
The XYZ color **33.0596, 37.7518, 98.4729** is a dark color, and the websafe version is hex **3399CC**. The color can be described as middle saturated azure. A complement of this color would be **43.2385, 26.3424, 2.8078**, and the grayscale version is **21.6102, 22.7356, 24.7590**.

A 20% lighter version of the original color is **53.0289, 67.2584, 104.7950**, and **17.0468, 18.1514, 54.8297** is the 20% darker color. If you saturate the color by 10%, you get **33.0556, 37.7435, 98.4723**, and if you desaturate by 10%, it is **35.0331, 41.0896, 99.0140**.

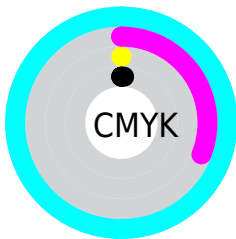
# Distribution



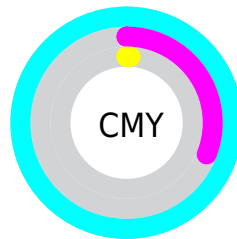
- Red (0%)
- Green (69%)
- Blue (99%)



- Red (0%)
- Yellow (40%)
- Blue (99%)



- Cyan (100%)
- Magenta (31%)
- Yellow (0%)
- Black (1%)



- Cyan (100%)
- Magenta (31%)
- Yellow (1%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.0596, 37.7518, 98.4729 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 33.0596, 37.7518, 98.4729 by changing the saturation by 10% instead.



■ 33.0596, 37.7518,  
98.4729

■ 33.0596, 37.7518,  
98.4729

307.5784,  
336.5541, 576.4903

■ 22.3316, 25.7901,  
74.4160

■ 63.8226, 71.7276,  
161.0905

■ 14.2187, 16.6667,  
54.6358

■ 84.5883, 94.5104,  
200.4884

■ 8.3556, 9.9971,  
38.7136

■ 109.4306,  
121.6691, 245.8370

■ 4.3771, 5.3971,  
26.2308

■ 138.7149,  
153.5880, 297.5549

■ 1.9176, 2.4821,  
16.7691

■ 172.8064,  
190.6516, 356.0607

■ 0.5870, 0.8676,  
9.9098

212.0706,

■ 0.0000, 0.0000,

233.2442, 421.7728

5.2344

256.8728,  
281.7502, 495.1098

■ 0.0000, 0.0000,  
2.3243

■ 0.0000, 0.0000,  
0.7448

■ 33.0596, 37.7518,  
98.4729

■ 33.0596, 37.7518,  
98.4729

■ 33.0556, 37.7435,  
98.4723

■ 35.0331, 41.0896,  
99.0140

■ 37.6238, 44.8774,  
99.6085

■ 40.9959, 49.2026,  
100.2656

■ 45.2496, 54.1187,  
100.9904

■ 50.4690, 59.6711,  
101.7870

■ 56.7277, 65.8998,  
102.6594

■ 64.0918, 72.8406,  
103.6110

■ 72.6218, 80.5267,  
104.6449

■ 82.3733, 88.9885,  
105.7643

# Harmonies

## Analogous

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



26.9559, 37.7518, 82.0478



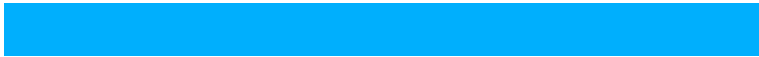
33.0596, 37.7518, 98.4729



40.8629, 37.7518, 95.9301

# Triad

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



33.0596, 37.7518, 98.4729



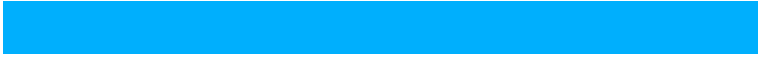
51.8529, 37.7518, 28.9093



25.8422, 37.7518, 18.9605

# Complementary

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



33.0596, 37.7518, 98.4729



43.2385, 26.3424, 2.8078

# 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.



31.3232, 37.7518, 12.5614



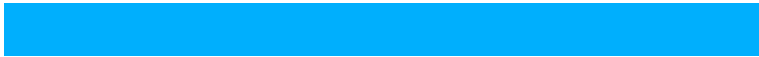
33.0596, 37.7518, 98.4729



46.5884, 37.7518, 16.7184

# Square

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



33.0596, 37.7518, 98.4729



52.4949, 37.7518, 49.9818



38.8605, 37.7518, 11.9226



23.2055, 37.7518, 33.3473



# Rectangle

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



33.0596, 37.7518, 98.4729



45.9927, 37.7518, 83.9778



38.8605, 37.7518, 11.9226



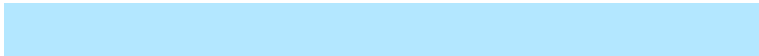
27.3735, 37.7518, 16.0640

# Sweetspot

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



33.0610, 37.7530, 98.4739



65.2154, 74.1249, 105.4781



36.4294, 70.7728, 18.5694



13.2521, 15.2087, 22.4871



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

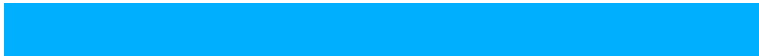


# Same Dimension

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



33.0610, 37.7530, 98.4739



33.6462, 38.4125, 100.2487



18.8998, 9.4305, 93.7535



18.0545, 19.4806, 23.0585



17.7196, 20.3487, 52.4284



1.8224, 2.1754, 5.1371



# Inverse Universe

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



48.2472, 23.9797, 42.6440



49.1123, 24.4089, 43.3848



61.7270, 63.3195, 8.9707



18.5401, 18.1994, 21.4615



25.7322, 12.7822, 23.0381



2.5545, 1.2642, 2.5012



# Previews

## White Background



This preview shows how the XYZ color 33.0596, 37.7518, 98.4729 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

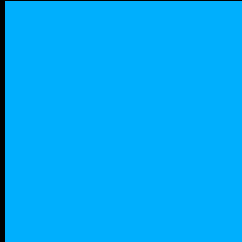
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.0596, 37.7518, 98.4729 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

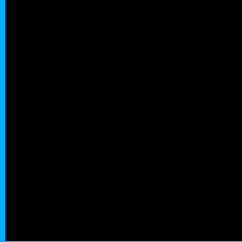
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

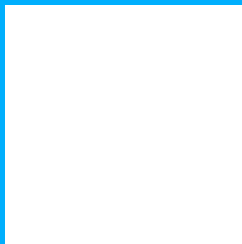
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 33.0596, 37.7518, 98.4729**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.0596, 37.7518, 98.4729.



This preview shows how white text looks on a background with the XYZ color 33.0596, 37.7518,



# 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

33.0596, 37.7518, 98.4729

### Protanopia

39.0884, 37.2189, 89.1282

### Deuteranopia

38.6616, 37.5528, 99.8185



## Tritanopia

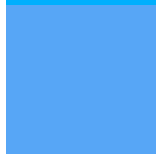
26.8973, 37.8525, 58.1132

# Trichromacy



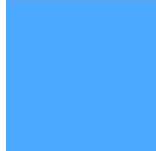
## Original Color

33.0596, 37.7518, 98.4729



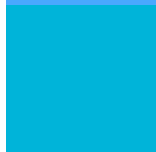
## Protanomaly

34.2013, 35.9525, 92.3257



## Deuteranomaly

34.7161, 36.6169, 99.0040



## Tritanomaly

28.8456, 37.6523, 71.3929

# Monochromacy



## Original Color

33.0596, 37.7518, 98.4729



## Achromatopsia

21.9318, 23.0740, 25.1276



## Achromatomaly

22.0825, 26.1992, 44.9674

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.0596, 37.7518, 98.4729 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, 253)` looks like.

```
.text, #text, p{  
    color:rgb(0, 175, 253)  
}
```

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, 253) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 175, 253) }
```

## Border

The CSS property to change the border of an element to XYZ 33.0596, 37.7518, 98.4729 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, 253) }
```



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

```
.border{ border-color:rgb(0, 175, 253) }
```

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, 253) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 175, 253); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 175, 253);  
box-shadow:4px 4px 4px 4px rgb(0, 175,  
253) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.0596, 37.7518, 98.4729 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, 253) }
```

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

```
.background{ background-color: rgb(0, 175,  
253) }
```

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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