

# Converting Colors

XYZ(34.4436, 37.9752,  
100.1223)

Have a look what the booklet for  
XYZ(34.4436, 37.9752, 100.1223)  
contains.

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# Color

**XYZ(34.3588, 37.8109,  
100.0951)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33ADFF
RGB	51, 173, 255
RGB Percent	20%, 68%, 100%
CMY	0.7999, 0.3216, 0.0000
CMYK	0.80, 0.32, 0.00, 0.00
HSL	204°, 100%, 60%
HSV	204°, 80%, 100%
XYZ	34.3588, 37.8109, 100.0951
YIQ	145.8700, -99.0340, -0.3620

# Conversions

## Conversions Part 2

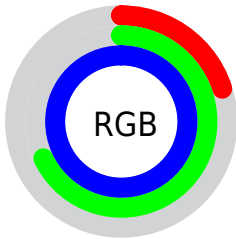
Format	Color
R <sub>Y</sub> B	51, 127, 255
Decimal	3386879
CIE Lab	67.88, -5.38, -49.85
CIE LCh	68, 50.134, 263.844
Yxy	37.8109, 0.1995, 0.2195
Android (android.graphics.Color)	4281576959 (0xFF33ADFF)
YUV	145.8700, 53.8011, -83.2010
Hunter-Lab	61.4906, -7.8689, -53.4696

# Details

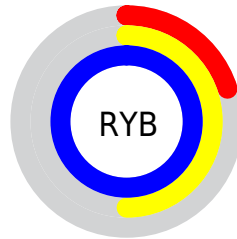
The XYZ color **34.3588, 37.8109, 100.0951** is a light color, and the websafe version is hex **0099FF**. The color can be described as light washed azure. A complement of this color would be **50.2279, 38.2790, 7.8754**, and the grayscale version is **27.0869, 28.4975, 31.0338**.

A 20% lighter version of the original color is **54.6955, 67.2960, 104.7144**, and **17.0304, 17.7520, 55.9550** is the 20% darker color. If you saturate the color by 10%, you get **31.5168, 33.5393, 99.4204**, and if you desaturate by 10%, it is **38.0575, 42.7490, 100.8533**.

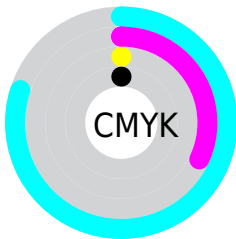
# Distribution



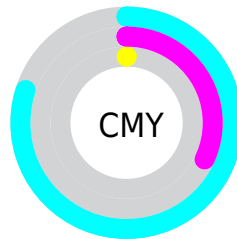
- Red (20%)
- Green (68%)
- Blue (100%)



- Red (20%)
- Yellow (50%)
- Blue (100%)



- Cyan (80%)
- Magenta (32%)
- Yellow (0%)
- Black (0%)



- Cyan (80%)
- Magenta (32%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.3588, 37.8109, 100.0951 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 34.3588, 37.8109, 100.0951 by changing the saturation by 10% instead.



■ 34.3588, 37.8109,  
100.0951

■ 34.3588, 37.8109,  
100.0951

313.2868,  
336.8081, 581.7468

■ 23.3336, 25.8360,  
75.7626

■ 65.8318, 71.8182,  
163.3409

■ 14.9621, 16.7010,  
55.7324

■ 87.0104, 94.6194,  
203.0913

■ 8.8789, 10.0215,  
39.5859

■ 112.3040,  
121.7980, 248.8181

■ 4.7188, 5.4132,  
26.9045

■ 142.0782,  
153.7386, 300.9398

■ 2.1163, 2.4917,  
17.2697

176.6982,  
190.8255, 359.8750

■ 0.6980, 0.8725,  
10.2630

216.5294,

■ 0.0000, 0.0000,

233.4431, 426.0422

5.4658

261.9371,  
281.9759, 499.8600

■ 0.0000, 0.0000,  
2.4596

■ 0.0000, 0.0000,  
0.8186

■ 34.3588, 37.8109,  
100.0951

■ 34.3588, 37.8109,  
100.0951

■ 31.5168, 33.5393,  
99.4204

■ 38.0575, 42.7490,  
100.8533

■ 29.3598, 29.8393,  
98.8199

■ 42.7130, 48.4087,  
101.7003

■ 29.3583, 29.8367,  
98.8194

■ 48.4143, 54.8408,  
102.6414

■ 55.2382, 62.0896,  
103.6809

■ 63.2538, 70.1952,  
104.8229

■ 72.5242, 79.1943,  
106.0713

■ 83.1079, 89.1213,  
107.4296

■ 95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



27.8199, 37.8109, 86.3182



34.3588, 37.8109, 100.0951



42.3268, 37.8109, 94.0594

# Triad

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



34.3588, 37.8109, 100.0951



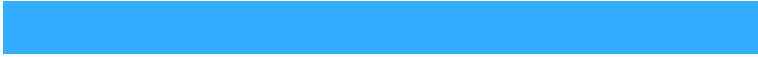
51.4195, 37.8109, 26.1736



25.1683, 37.8109, 20.7235

# Complementary

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



34.3588, 37.8109, 100.0951



50.2279, 38.2790, 7.8754

# 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.



30.2270, 37.8109, 13.1132



34.3588, 37.8109, 100.0951



45.4995, 37.8109, 15.3731

# Square

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



34.3588, 37.8109, 100.0951



52.9451, 37.8109, 45.9334



37.5651, 37.8109, 11.5873



23.0295, 37.8109, 36.7472



# Rectangle

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



34.3588, 37.8109, 100.0951



47.3205, 37.8109, 80.4127



37.5651, 37.8109, 11.5873



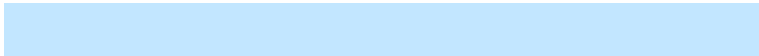
26.5452, 37.8109, 17.3673

# Sweetspot

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



34.3601, 37.8121, 100.0952



68.6546, 75.4784, 105.5580



41.3330, 73.9070, 34.1368



13.9958, 15.4747, 22.4992



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

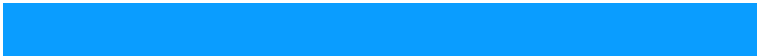


# Same Dimension

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



34.3601, 37.8121, 100.0952



30.1659, 31.2622, 99.0520



21.6961, 12.4840, 95.8739



17.9065, 19.1845, 23.0092



15.4906, 15.8907, 51.6854



1.6154, 1.7614, 5.0681



# Inverse Universe

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



49.9676, 26.6465, 42.0457



47.4018, 23.9019, 33.8315



71.4324, 80.6881, 14.9436



18.4654, 18.1695, 21.0681



24.6071, 12.3321, 17.1135

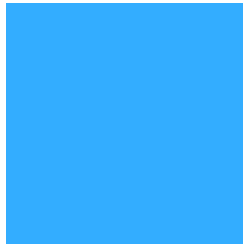


2.4500, 1.2224, 1.9510



# Previews

## White Background



This preview shows how the XYZ color 34.3588, 37.8109, 100.0951 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

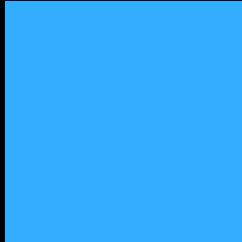
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 34.3588, 37.8109, 100.0951 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

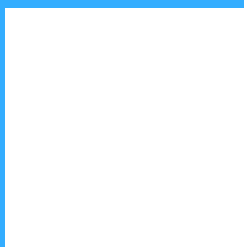
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 34.3588, 37.8109, 100.0951**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.3588, 37.8109, 100.0951.



This preview shows how white text looks on a background with the XYZ color 34.3588, 37.8109,



# 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

34.3588, 37.8109, 100.0951

### Protanopia

39.3796, 37.3166, 91.5135

### Deuteranopia

38.5279, 37.4839, 99.8122



## **Tritanopia**

27.0115, 37.8982, 58.7147

# Trichromacy



## Original Color

34.3588, 37.8109, 100.0951

## Protanomaly

36.3797, 36.7531, 94.7992

## Deuteranomaly

36.2823, 37.1327, 99.8628

## Tritanomaly

29.0435, 37.4406, 72.0257

# Monochromacy



## Original Color

34.3588, 37.8109, 100.0951

## Achromatopsia

27.3213, 28.7441, 31.3023

## Achromatomaly

27.3069, 30.7016, 50.9411

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.3588, 37.8109, 100.0951 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(51, 173, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 173, 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(51, 173, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 173, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 34.3588, 37.8109, 100.0951 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(51, 173, 255) }
```



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

```
.border{ border-color:rgb(51, 173, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 173, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 173, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 173, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 173,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.3588, 37.8109, 100.0951 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 173, 255) }
```

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

```
.background{ background-color: rgb(51, 173,  
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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