

# Converting Colors

XYZ(35.7812, 38.1988,  
100.0950)

Have a look what the booklet for  
XYZ(35.7812, 38.1988, 100.0950)  
contains.

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# Color

**XYZ(35.8631, 38.3028,  
100.1107)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4DACFF
RGB	77, 172, 255
RGB Percent	30%, 67%, 100%
CMY	0.6980, 0.3255, 0.0000
CMYK	0.70, 0.33, 0.00, 0.00
HSL	208°, 100%, 65%
HSV	208°, 70%, 100%
XYZ	35.8631, 38.3028, 100.1107
YIQ	153.0570, -83.2630, 5.6730

# Conversions

## Conversions Part 2

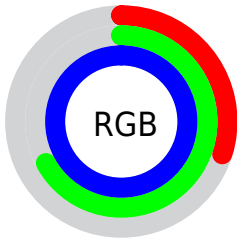
Format	Color
R <sub>Y</sub> B	77, 139, 255
Decimal	5090559
CIE Lab	68.24, -1.81, -49.23
CIE LCh	68, 49.264, 267.891
Yxy	38.3028, 0.2058, 0.2198
Android (android.graphics.Color)	4283280639 (0xFF4DACFF)
YUV	153.0570, 50.2579, -66.7020
Hunter-Lab	61.8893, -4.8704, -52.5837

# Details

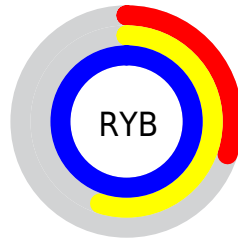
The XYZ color **35.8631, 38.3028, 100.1107** is a light color, and the websafe version is hex **0099FF**. The color can be described as light washed azure. A complement of this color would be **55.1525, 46.9411, 13.1771**, and the grayscale version is **30.1192, 31.6877, 34.5079**.

A 20% lighter version of the original color is **57.0207, 68.0875, 104.7446**, and **16.9095, 17.5102, 55.9147** is the 20% darker color. If you saturate the color by 10%, you get **32.0312, 33.1172, 99.3118**, and if you desaturate by 10%, it is **40.7059, 44.3112, 101.0152**.

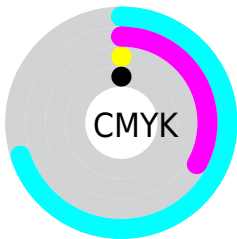
# Distribution



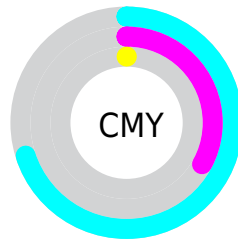
- Red (30%)
- Green (67%)
- Blue (100%)



- Red (30%)
- Yellow (55%)
- Blue (100%)



- Cyan (70%)
- Magenta (33%)
- Yellow (0%)
- Black (0%)



- Cyan (70%)
- Magenta (33%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.8631, 38.3028, 100.1107 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 35.8631, 38.3028, 100.1107 by changing the saturation by 10% instead.



■ 35.8631, 38.3028,  
100.1107

■ 35.8631, 38.3028,  
100.1107

319.8035,  
338.9171, 581.7972

■ 24.4981, 26.2178,  
75.7756

■ 68.1460, 72.5720,  
163.3625

■ 15.8303, 16.9866,  
55.7430

■ 89.7945, 95.5250,  
203.1163

■ 9.4942, 10.2250,  
39.5943

■ 115.6017,  
122.8694, 248.8467

■ 5.1246, 5.5484,  
26.9110

■ 145.9328,  
154.9897, 300.9723

■ 2.3561, 2.5725,  
17.2745

181.1531,  
192.2702, 359.9116

■ 0.8231, 0.9128,  
10.2664

221.6281,

■ 0.0000, 0.0000,

235.0954, 426.0832

5.4680

267.7231,  
283.8495, 499.9055

■ 0.0000, 0.0000,  
2.4609

■ 0.0000, 0.0000,  
0.8193

■ 35.8631, 38.3028,  
100.1107

■ 35.8631, 38.3028,  
100.1107

■ 32.0312, 33.1172,  
99.3118

■ 40.7059, 44.3112,  
101.0152

■ 29.1007, 28.6886,  
98.6114

■ 46.6451, 51.1925,  
102.0304

■ 26.9070, 24.9244,  
98.0005

■ 53.7604, 58.9956,  
103.1615

■ 26.8669, 24.8537,  
97.9890

■ 62.1226, 67.7639,  
104.4133

■ 71.7963, 77.5377,  
105.7899

■ 82.8417, 88.3545,  
107.2956

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.



29.0840, 38.3028, 88.9663



35.8631, 38.3028, 100.1107



43.7864, 38.3028, 91.5793

# Triad

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



35.8631, 38.3028, 100.1107



51.1351, 38.3028, 24.8370



25.2417, 38.3028, 22.9712

# Complementary

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



35.8631, 38.3028, 100.1107



55.1525, 46.9411, 13.1771

# 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.



29.9047, 38.3028, 14.3186



35.8631, 38.3028, 100.1107



44.8633, 38.3028, 15.0980

# Square

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



35.8631, 38.3028, 100.1107



53.3115, 38.3028, 43.2865



36.9537, 38.3028, 12.0476

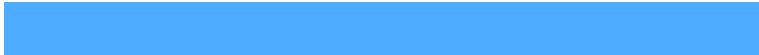


23.5150, 38.3028, 40.1630



# Rectangle

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



35.8631, 38.3028, 100.1107



48.5419, 38.3028, 77.1229



36.9537, 38.3028, 12.0476



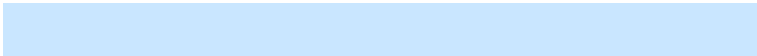
26.4823, 38.3028, 19.2309

# Sweetspot

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



35.8644, 38.3040, 100.1109



70.5634, 76.3097, 105.6179



44.9164, 75.5362, 44.1586



14.5126, 15.7411, 22.5234



0.0000, 0.0000, 0.0000

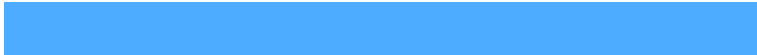


20.3446, 21.4041, 23.3091



# Same Dimension

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



35.8644, 38.3040, 100.1109



30.6971, 31.1685, 99.0060



24.4323, 15.4397, 96.3002



17.8058, 18.9832, 22.9756



14.1895, 13.2886, 51.2517



1.4910, 1.5127, 5.0267



# Inverse Universe

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



51.3413, 29.5481, 42.0280



47.9522, 25.2025, 33.3985



75.5664, 87.7687, 19.9817



18.4146, 18.1492, 20.8005



23.9504, 12.0695, 13.6553



2.3872, 1.1972, 1.6204



# Previews

## White Background



This preview shows how the XYZ color 35.8631, 38.3028, 100.1107 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

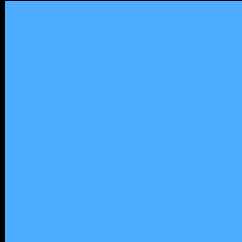
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.8631, 38.3028, 100.1107 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

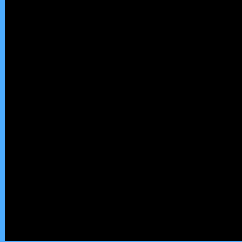
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

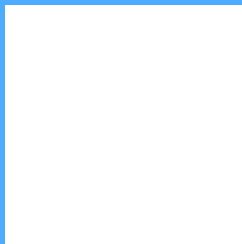
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 35.8631, 38.3028, 100.1107**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.8631, 38.3028, 100.1107.



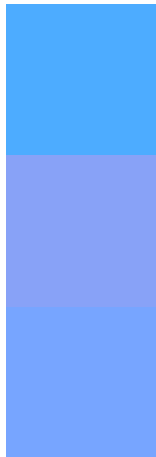
This preview shows how white text looks on a background with the XYZ color 35.8631, 38.3028,



# 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

35.8631, 38.3028, 100.1107

### Protanopia

39.8622, 37.7903, 93.1890

### Deuteranopia

39.1129, 38.0522, 99.8911



## Tritanopia

27.6916, 38.2355, 59.3468

# Trichromacy



**Original Color**

35.8631, 38.3028, 100.1107

**Protanomaly**

37.9618, 37.8194, 95.7416

**Deuteranomaly**

37.7616, 38.1683, 99.9847

**Tritanomaly**

30.1252, 37.9831, 72.7615

# Monochromacy



**Original Color**

35.8631, 38.3028, 100.1107

**Achromatopsia**

30.2779, 31.8547, 34.6897

**Achromatomaly**

30.3225, 33.2193, 53.5290

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.8631, 38.3028, 100.1107 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(77, 172, 255)` looks like.

```
.text, #text, p{  
    color:rgb(77, 172, 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(77, 172, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 172, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 35.8631, 38.3028, 100.1107 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(77, 172, 255) }
```



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

```
.border{ border-color:rgb(77, 172, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 172, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 172, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 172, 255);  
box-shadow:4px 4px 4px 4px rgb(77, 172,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.8631, 38.3028, 100.1107 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 172, 255) }
```

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

```
.background{ background-color: rgb(77, 172,  
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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