

# Converting Colors

XYZ(36.0119, 37.9369, 90.2195)

Have a look what the booklet for  
XYZ(36.0119, 37.9369, 90.2195)  
contains.

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# Color

**XYZ(36.0319, 38.0453,  
90.2384)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	66AAF3
RGB	102, 170, 243
RGB Percent	40%, 67%, 95%
CMY	0.6000, 0.3333, 0.0471
CMYK	0.58, 0.30, 0.00, 0.05
HSL	211°, 85%, 68%
HSV	211°, 58%, 95%
XYZ	36.0319, 38.0453, 90.2384
YIQ	157.9900, -63.9610, 8.2870

# Conversions

## Conversions Part 2

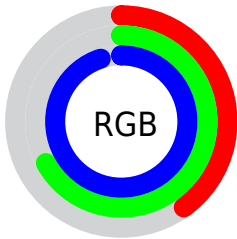
Format	Color
R <sub>Y</sub> B	102, 148, 243
Decimal	6728435
CIE Lab	68.05, -0.43, -42.94
CIE LCh	68, 42.944, 269.424
Yxy	38.0453, 0.2193, 0.2315
Android (android.graphics.Color)	4284918515 (0xFF66AAF3)
YUV	157.9900, 41.9099, -49.1032
Hunter-Lab	61.6809, -3.6678, -43.5640

# Details

The XYZ color **36.0319, 38.0453, 90.2384** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **54.6923, 50.6766, 19.4713**, and the grayscale version is **32.3331, 34.0170, 37.0445**.

A 20% lighter version of the original color is **59.8755, 68.7518, 104.7224**, and **15.8481, 16.7632, 48.8547** is the 20% darker color. If you saturate the color by 10%, you get **31.4241, 32.3351, 89.3798**, and if you desaturate by 10%, it is **41.6751, 44.6256, 91.2118**.

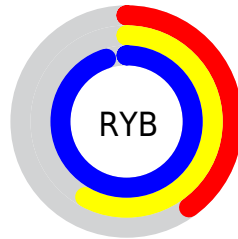
# Distribution



Red (40%)

Green (67%)

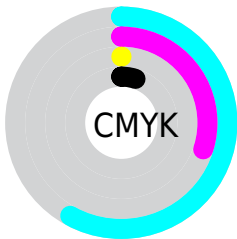
Blue (95%)



Red (40%)

Yellow (58%)

Blue (95%)

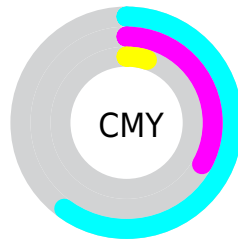


Cyan (58%)

Magenta (30%)

Yellow (0%)

Black (5%)



Cyan (60%)

Magenta (33%)

Yellow (5%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.0319, 38.0453, 90.2384 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 36.0319, 38.0453, 90.2384 by changing the saturation by 10% instead.



■ 36.0319, 38.0453,  
90.2384

■ 36.0319, 38.0453,  
90.2384

320.5288,  
337.8143, 549.3962

■ 24.6291, 26.0178,  
67.6036

■ 68.4048, 72.1776,  
149.6079

■ 15.9282, 16.8370,  
49.1106

■ 90.1057, 95.0512,  
187.1797

■ 9.5639, 10.1183,  
34.3410

■ 115.9698,  
122.3089, 230.5675

■ 5.1708, 5.4775,  
22.8762

146.3628,  
154.3353, 280.1899

■ 2.3836, 2.5301,  
14.2977

181.6498,  
191.5146, 336.4654

■ 0.8369, 0.8916,  
8.1869

222.1962,

■ 0.0000, 0.0000,

234.2313, 399.8126

4.1253

268.3674,  
282.8697, 470.6500

■ 0.0000, 0.0000,  
1.6943

■ 0.0000, 0.0000,  
0.3568

■ 36.0319, 38.0453,  
90.2384

■ 36.0319, 38.0453,  
90.2384

■ 31.4241, 32.3351,  
89.3798

■ 41.6751, 44.6256,  
91.2118

■ 27.7684, 27.4409,  
88.6278

■ 48.4196, 52.1170,  
92.3024

■ 24.9739, 23.3066,  
87.9771

■ 56.3303, 60.5624,  
93.5156

■ 22.9157, 19.8576,  
87.4199

■ 65.4654, 70.0000,  
94.8557

■ 22.5611, 19.2377,  
87.3189

■ 75.8790, 80.4659,  
96.3270

■ 87.6219, 91.9941,  
97.9332

■ 93.1778, 99.2511,  
99.0412

# Harmonies

## Analogous

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



30.0065, 38.0453, 81.9075



36.0319, 38.0453, 90.2384



42.8530, 38.0453, 82.4917

# Triad

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



36.0319, 38.0453, 90.2384



48.5569, 38.0453, 25.8391



26.1815, 38.0453, 25.3741

# Complementary

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



36.0319, 38.0453, 90.2384



54.6923, 50.6766, 19.4713

# 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.



30.2045, 38.0453, 16.9157



36.0319, 38.0453, 90.2384



43.1041, 38.0453, 17.1202

# Square

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



36.0319, 38.0453, 90.2384



50.6031, 38.0453, 41.7959



36.2902, 38.0453, 14.4344



24.7667, 38.0453, 41.0560



# Rectangle

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



36.0319, 38.0453, 90.2384



46.8334, 38.0453, 70.2920



36.2902, 38.0453, 14.4344



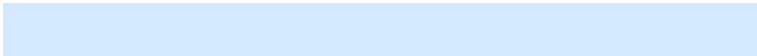
27.2471, 38.0453, 21.7916

# Sweetspot

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



36.0333, 38.0466, 90.2393



74.1139, 79.1917, 105.9870



45.2547, 70.0164, 51.6117



15.3939, 16.4720, 22.6180



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.



36.0333, 38.0466, 90.2393



34.0936, 34.8234, 99.5324



26.6804, 18.9398, 87.0443



16.2407, 17.2456, 21.0153



12.5158, 10.8254, 47.9679



1.2024, 1.1562, 4.2500



# Inverse Universe

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



48.9705, 31.4614, 41.5230



50.4325, 29.1275, 37.4186



70.6061, 83.7006, 25.0068



16.8321, 16.6157, 18.8622



22.1219, 11.1922, 10.6164

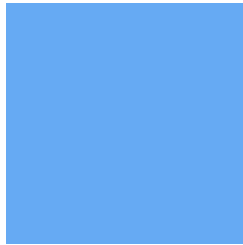


1.9960, 1.0044, 1.2052



# Previews

## White Background



This preview shows how the XYZ color 36.0319, 38.0453, 90.2384 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

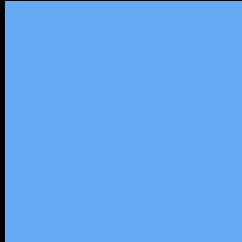
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.0319, 38.0453, 90.2384 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

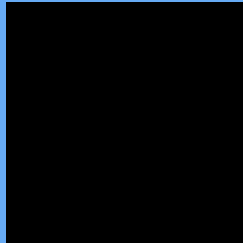
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

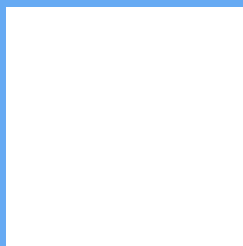
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 36.0319, 38.0453, 90.2384

## Background



This preview shows how black text looks on a background with the XYZ color 36.0319, 38.0453, 90.2384.



This preview shows how white text looks on a background with the XYZ color 36.0319, 38.0453,



# 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

36.0319, 38.0453, 90.2384

### Protanopia

39.1909, 37.6178, 85.3161

### Deuteranopia

38.8105, 37.8284, 90.8440



## Tritanopia

29.3374, 37.9291, 56.8137

# Trichromacy



## Original Color

36.0319, 38.0453, 90.2384

## Protanomaly

37.7875, 37.6543, 86.9377

## Deuteranomaly

37.7111, 37.7972, 90.8959

## Tritanomaly

31.5288, 37.9280, 67.9464

# Monochromacy



## Original Color

36.0319, 38.0453, 90.2384

## Achromatopsia

32.4990, 34.1914, 37.2345

## Achromatomaly

32.5869, 34.9181, 53.1665

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.0319, 38.0453, 90.2384 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(102, 170, 243)` looks like.

```
.text, #text, p{  
    color:rgb(102, 170, 243)  
}
```

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(102, 170, 243) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 170, 243) }
```

## Border

The CSS property to change the border of an element to XYZ 36.0319, 38.0453, 90.2384 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(102, 170, 243) }
```



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

```
.border{ border-color:rgb(102, 170, 243) }
```

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

Here you see how a box with a 4 pixel rgb(102, 170, 243) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 170, 243); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 170, 243);  
box-shadow:4px 4px 4px 4px rgb(102, 170,  
243) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.0319, 38.0453, 90.2384 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 170, 243) }
```

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

```
.background{ background-color: rgb(102,  
170, 243) }
```

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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