

# Converting Colors

XYZ(30.8794, 36.6649, 87.6541)

Have a look what the booklet for  
XYZ(30.8794, 36.6649, 87.6541)  
contains.

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# Color

**XYZ(30.8642, 36.5634,  
87.8688)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00AEF0
RGB	0, 174, 240
RGB Percent	0%, 68%, 94%
CMY	0.9998, 0.3176, 0.0588
CMYK	1.00, 0.27, 0.00, 0.06
HSL	197°, 100%, 47%
HSV	197°, 100%, 94%
XYZ	30.8642, 36.5634, 87.8688
YIQ	129.4980, -124.8900, -16.3620

# Conversions

## Conversions Part 2

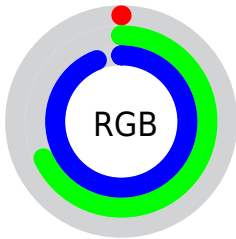
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 101, 240
Decimal	44784
CIELab	66.95, -13.86, -43.19
CIELCh	67, 45.360, 252.202
Yxy	36.5634, 0.1987, 0.2354
Android (android.graphics.Color)	4278234864 (0xFF00AEF0)
YUV	129.4980, 54.4775, -113.5697
Hunter-Lab	60.4677, -14.7076, -43.8301

# Details

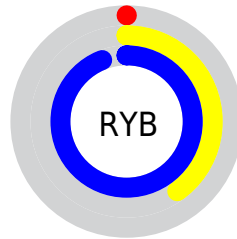
The XYZ color **30.8642, 36.5634, 87.8688** is a dark color, and the websafe version is hex **0099CC**. The color can be described as middle saturated azure. A complement of this color would be **37.8876, 22.4291, 2.3341**, and the grayscale version is **20.8940, 21.9821, 23.9385**.

A 20% lighter version of the original color is **52.3760, 66.5098, 104.6849**, and **15.6113, 17.3798, 47.8792** is the 20% darker color. If you saturate the color by 10%, you get **30.8615, 36.5576, 87.8686**, and if you desaturate by 10%, it is **32.5499, 39.3731, 88.3230**.

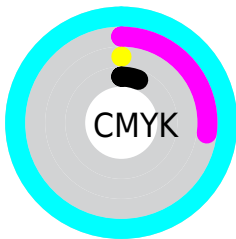
# Distribution



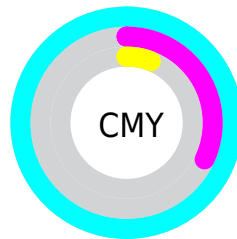
- Red (0%)
- Green (68%)
- Blue (94%)



- Red (0%)
- Yellow (40%)
- Blue (94%)



- Cyan (100%)
- Magenta (27%)
- Yellow (0%)
- Black (6%)



- Cyan (100%)
- Magenta (32%)
- Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.8642, 36.5634, 87.8688 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 30.8642, 36.5634, 87.8688 by changing the saturation by 10% instead.



■ 30.8642, 36.5634,  
87.8688

■ 30.8642, 36.5634,  
87.8688

297.7503,  
331.4164, 541.4637

■ 20.6468, 24.8696,  
65.6507

■ 60.4035, 69.9008,  
146.2840

■ 12.9770, 15.9800,  
47.5342

■ 80.4561, 92.3132,  
183.3182

■ 7.4896, 9.5100,  
33.1008

■ 104.5178,  
119.0672, 226.1282

■ 3.8192, 5.0753,  
21.9319

■ 132.9539,  
150.5474, 275.1325

■ 1.6004, 2.2915,  
13.6091

■ 166.1299,  
187.1380, 330.7496

■ 0.3926, 0.7692,  
7.7136

204.4111,

■ 0.0000, 0.0000,

229.2234, 393.3982

3.8271

248.1627,  
277.1881, 463.4967

■ 0.0000, 0.0000,  
1.5310

■ 0.0000, 0.0000,  
0.2409

■ 30.8642, 36.5634,  
87.8688

■ 30.8642, 36.5634,  
87.8688

■ 30.8615, 36.5576,  
87.8686

■ 32.5499, 39.3731,  
88.3230

■ 34.7641, 42.5490,  
88.8194

■ 37.6543, 46.1691,  
89.3658

■ 41.3078, 50.2795,  
89.9666

■ 45.7980, 54.9194,  
90.6255

■ 51.1893, 60.1231,  
91.3458

■ 57.5393, 65.9215,  
92.1303

■ 64.9009, 72.3429,  
92.9818

■ 73.3228, 79.4138,  
93.9027

# Harmonies

## Analogous

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



25.8461, 36.5634, 71.0650



30.8642, 36.5634, 87.8688



37.6238, 36.5634, 89.5013

# Triad

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



30.8642, 36.5634, 87.8688



49.3501, 36.5634, 32.3294



26.6029, 36.5634, 17.8265

# Complementary

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



30.8642, 36.5634, 87.8688



37.8876, 22.4291, 2.3341

# 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.



32.0310, 36.5634, 13.0779



30.8642, 36.5634, 87.8688



45.5005, 36.5634, 19.4012

# Square

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



30.8642, 36.5634, 87.8688



48.9291, 36.5634, 52.5489



38.9542, 36.5634, 13.5389



23.6184, 36.5634, 29.3188



# Rectangle

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



30.8642, 36.5634, 87.8688



42.2886, 36.5634, 81.2380



38.9542, 36.5634, 13.5389



28.1694, 36.5634, 15.5903

# Sweetspot

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



30.8655, 36.5646, 87.8697



65.9358, 75.5657, 105.7182



32.0879, 62.6918, 15.2669



13.4249, 15.5542, 22.5446



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

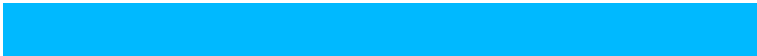


# Same Dimension

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



30.8655, 36.5646, 87.8697



35.3693, 41.8586, 100.8231



17.1456, 9.1247, 83.2964



15.8584, 17.1508, 20.1962



17.0108, 20.2458, 48.1391



1.4978, 1.8496, 4.0323



# Inverse Universe

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



43.5764, 21.5829, 41.9146



49.9820, 24.7568, 47.9647



53.0795, 52.8129, 7.3981



16.2580, 15.9529, 18.9146



23.9119, 11.8372, 23.2503



2.0310, 1.0014, 2.1539



# Previews

## White Background



This preview shows how the XYZ color 30.8642, 36.5634, 87.8688 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

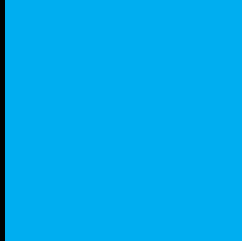
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 30.8642, 36.5634, 87.8688 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 30.8642, 36.5634, 87.8688**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.8642, 36.5634, 87.8688.



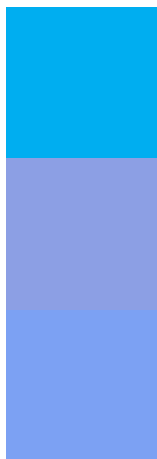
This preview shows how white text looks on a background with the XYZ color 30.8642, 36.5634,



# 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

30.8642, 36.5634, 87.8688

### Protanopia

37.2169, 35.9732, 78.3808

### Deuteranopia

37.2347, 36.2459, 89.8277



## Tritanopia

25.9469, 36.4928, 56.1283

# Trichromacy



## Original Color

30.8642, 36.5634, 87.8688



## Protanomaly

31.9608, 34.5010, 81.3188



## Deuteranomaly

32.8877, 35.3455, 89.0934



## Tritanomaly

27.5533, 36.4939, 66.5646

# Monochromacy



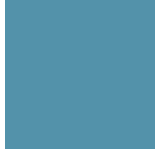
## Original Color

30.8642, 36.5634, 87.8688



## Achromatopsia

21.2178, 22.3228, 24.3095



## Achromatomaly

21.1019, 25.2990, 41.8012

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.8642, 36.5634, 87.8688 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, 174, 240)` looks like.

```
.text, #text, p{  
    color:rgb(0, 174, 240)  
}
```

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, 174, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 174, 240) }
```

## Border

The CSS property to change the border of an element to XYZ 30.8642, 36.5634, 87.8688 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, 174, 240) }
```



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

```
.border{ border-color:rgb(0, 174, 240) }
```

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

Here you see how a box with a 4 pixel rgb(0, 174, 240) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 174, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 174, 240);  
box-shadow:4px 4px 4px 4px rgb(0, 174,  
240) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.8642, 36.5634, 87.8688 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 174, 240) }
```

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

```
.background{ background-color: rgb(0, 174,  
240) }
```

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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