

# Converting Colors

XYZ(19.7816, 35.3584, 90.9419)

Have a look what the booklet for  
XYZ(19.7816, 35.3584, 90.9419)  
contains.

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# Color

**XYZ(34.3753, 42.8663,  
91.2563)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BDF3
RGB	0, 189, 243
RGB Percent	0%, 74%, 95%
CMY	0.9997, 0.2588, 0.0471
CMYK	1.00, 0.22, 0.00, 0.05
HSL	193°, 100%, 48%
HSV	193°, 100%, 95%
XYZ	34.3753, 42.8663, 91.2563
YIQ	138.6450, -129.9780, -23.2740

# Conversions

## Conversions Part 2

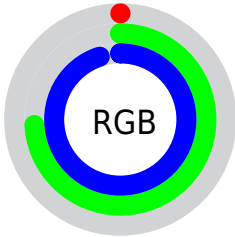
Format	Color
R <sub>YB</sub>	0, 106, 243
Decimal	48627
CIE Lab	71.46, -20.76, -37.77
CIE LCh	71, 43.098, 241.199
Yxy	42.8663, 0.2040, 0.2544
Android (android.graphics.Color)	4278238707 (0xFF00BDF3)
YUV	138.6450, 51.4470, -121.5917
Hunter-Lab	65.4724, -20.8578, -36.8086

# Details

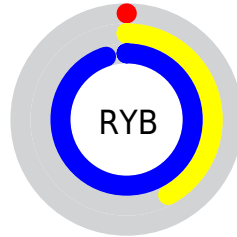
The XYZ color **34.3753, 42.8663, 91.2563** is a dark color, and the websafe version is hex **33CCFF**. The color can be described as middle saturated azure. A complement of this color would be **38.2853, 21.6998, 2.1726**, and the grayscale version is **24.2574, 25.5207, 27.7920**.

A 20% lighter version of the original color is **57.2580, 75.9043, 106.2409**, and **17.7738, 21.1962, 50.1682** is the 20% darker color. If you saturate the color by 10%, you get **34.3726, 42.8606, 91.2562**, and if you desaturate by 10%, it is **35.9452, 45.4334, 91.6699**.

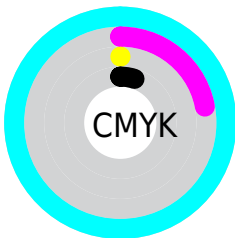
# Distribution



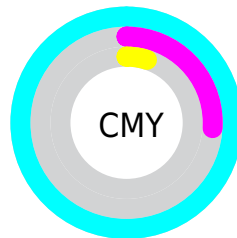
- Red (0%)
- Green (74%)
- Blue (95%)



- Red (0%)
- Yellow (42%)
- Blue (95%)



- Cyan (100%)
- Magenta (22%)
- Yellow (0%)
- Black (5%)



- Cyan (100%)
- Magenta (26%)
- Yellow (5%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.3753, 42.8663, 91.2563 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 34.3753, 42.8663, 91.2563 by changing the saturation by 10% instead.



■ 34.3753, 42.8663,  
91.2563

■ 34.3753, 42.8663,  
91.2563

313.3588,  
358.0616, 552.7843

■ 23.3463, 29.7802,  
68.4435

■ 65.8573, 79.5091,  
151.0330

■ 14.9715, 19.6718,  
49.7897

■ 87.0410, 103.8345,  
188.8339

■ 8.8856, 12.1567,  
34.8763

■ 112.3403,  
132.6753, 232.4680

■ 4.7231, 6.8505,  
23.2848

■ 142.1207,  
166.4157, 282.3537

■ 2.1188, 3.3688,  
14.5967

■ 176.7473,  
205.4401, 338.9097

■ 0.6994, 1.3272,  
8.3934

216.5857,

■ 0.0000, 0.1621,

250.1330, 402.5544

4.2563

262.0010,  
300.8787, 473.7065

■ 0.0000, 0.0000,  
1.7670

■ 0.0000, 0.0000,  
0.4060

■ 34.3753, 42.8663,  
91.2563

■ 34.3753, 42.8663,  
91.2563

■ 34.3726, 42.8606,  
91.2562

■ 35.9452, 45.4334,  
91.6699

■ 38.0378, 48.3343,  
92.1196

■ 40.8040, 51.6480,  
92.6134

■ 44.3335, 55.4214,  
93.1557

■ 48.7015, 59.6940,  
93.7502

■ 53.9740, 64.5005,  
94.4000

■ 60.2102, 69.8718,  
95.1081

■ 67.4639, 75.8366,  
95.8771

■ 75.7851, 82.4210,  
96.7095

# Harmonies

## Analogous

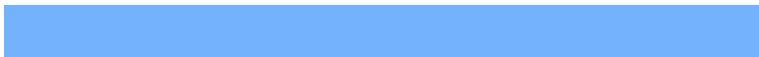
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



29.9217, 42.8663, 70.6236



34.3753, 42.8663, 91.2563



41.0361, 42.8663, 99.2030

# Triad

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



34.3753, 42.8663, 91.2563



56.3704, 42.8663, 45.8420



33.9252, 42.8663, 20.1302

# Complementary

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



34.3753, 42.8663, 91.2563



38.2853, 21.6998, 2.1726

# 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.



40.4515, 42.8663, 17.0084



34.3753, 42.8663, 91.2563



53.9020, 42.8663, 28.8623

# Square

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



34.3753, 42.8663, 91.2563



54.2550, 42.8663, 68.7298



47.8525, 42.8663, 19.6561



29.6844, 42.8663, 29.9275



# Rectangle

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



34.3753, 42.8663, 91.2563



46.0075, 42.8663, 94.8077



47.8525, 42.8663, 19.6561



35.8965, 42.8663, 18.4230

# Sweetspot

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



34.3768, 42.8678, 91.2574



67.0983, 77.8907, 106.1057



32.6877, 64.3567, 14.0320



13.7044, 16.1133, 22.6378



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.



34.3768, 42.8678, 91.2574



38.3170, 47.7539, 101.8057



18.3007, 10.7156, 85.8987



16.6660, 18.0963, 21.1571



18.9696, 23.7329, 50.1191



1.7423, 2.2361, 4.4300



# Inverse Universe

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



46.1489, 22.7306, 50.1006



51.4698, 25.3519, 55.7995



52.1320, 49.3931, 6.7882



17.0467, 16.7015, 19.9927



25.3795, 12.4952, 27.7703

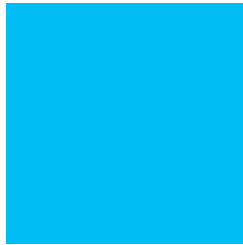


2.2685, 1.1134, 2.6403



# Previews

## White Background



This preview shows how the XYZ color 34.3753, 42.8663, 91.2563 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 34.3753, 42.8663, 91.2563 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

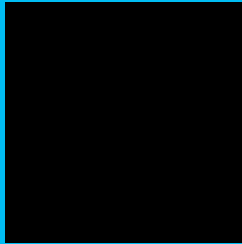
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 34.3753, 42.8663, 91.2563**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.3753, 42.8663, 91.2563.



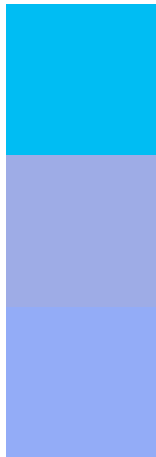
This preview shows how white text looks on a background with the XYZ color 34.3753, 42.8663,



# 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

34.3753, 42.8663, 91.2563

### Protanopia

43.1360, 42.4873, 80.7903

### Deuteranopia

43.5736, 42.4235, 93.8877



## Tritanopia

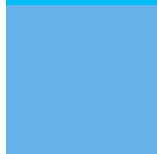
30.4551, 42.6940, 66.3101

# Trichromacy



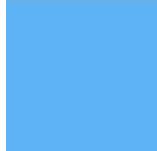
## Original Color

34.3753, 42.8663, 91.2563



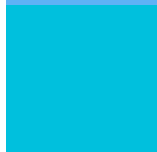
## Protanomaly

36.2826, 40.6056, 84.5226



## Deuteranomaly

37.1710, 40.8743, 93.1192



## Tritanomaly

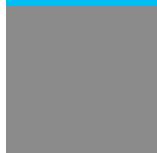
31.9008, 42.9197, 75.0096

# Monochromacy



## Original Color

34.3753, 42.8663, 91.2563



## Achromatopsia

24.5403, 25.8183, 28.1161



## Achromatomaly

24.0173, 29.3630, 45.9967

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.3753, 42.8663, 91.2563 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, 189, 243)` looks like.

```
.text, #text, p{  
    color:rgb(0, 189, 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(0, 189, 243) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 189, 243) }
```

## Border

The CSS property to change the border of an element to XYZ 34.3753, 42.8663, 91.2563 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, 189, 243) }
```



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

```
.border{ border-color:rgb(0, 189, 243) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 189, 243)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 189, 243); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 189, 243);  
box-shadow:4px 4px 4px 4px rgb(0, 189,  
243) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.3753, 42.8663, 91.2563 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 189, 243) }
```

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

```
.background{ background-color: rgb(0, 189,  
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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