

# Converting Colors

XYZ(31.2700, 40.6678, 88.5888)

Have a look what the booklet for  
XYZ(31.2700, 40.6678, 88.5888)  
contains.

<b>XYZ(33.4985, 41.8319, 88.7469)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(33.4985, 41.8319,  
88.7469)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BBF0
RGB	0, 187, 240
RGB Percent	0%, 73%, 94%
CMY	0.9997, 0.2667, 0.0588
CMYK	1.00, 0.22, 0.00, 0.06
HSL	193°, 100%, 47%
HSV	193°, 100%, 94%
XYZ	33.4985, 41.8319, 88.7469
YIQ	137.1290, -128.4650, -23.1610

# Conversions

## Conversions Part 2

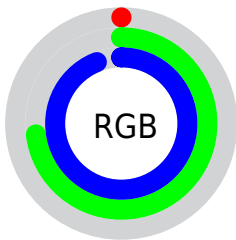
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 105, 240
Decimal	48112
CIELab	70.75, -20.76, -37.24
CIELCh	71, 42.640, 240.864
Yxy	41.8319, 0.2042, 0.2550
Android (android.graphics.Color)	4278238192 (0xFF00BBF0)
YUV	137.1290, 50.7154, -120.2621
Hunter-Lab	64.6776, -20.7352, -36.0801

# Details

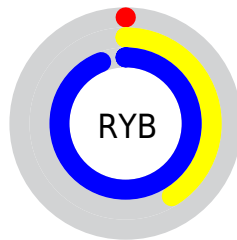
The XYZ color **33.4985, 41.8319, 88.7469** is a dark color, and the websafe version is hex **33CCFF**. The color can be described as middle saturated azure. A complement of this color would be **37.2120, 21.0778, 2.1091**, and the grayscale version is **23.6838, 24.9172, 27.1348**.

A 20% lighter version of the original color is **56.5310, 74.6362, 106.0345**, and **17.1768, 20.5109, 48.4011** is the 20% darker color. If you saturate the color by 10%, you get **33.4960, 41.8266, 88.7469**, and if you desaturate by 10%, it is **35.0230, 44.3191, 89.1475**.

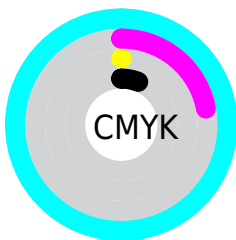
# Distribution



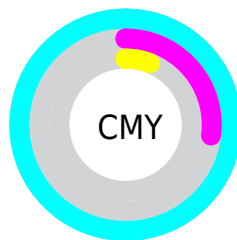
- Red (0%)
- Green (73%)
- Blue (94%)



- Red (0%)
- Yellow (41%)
- Blue (94%)



- Cyan (100%)
- Magenta (22%)
- Yellow (0%)
- Black (6%)



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

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.4985, 41.8319, 88.7469 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 33.4985, 41.8319, 88.7469 by changing the saturation by 10% instead.



■ 33.4985, 41.8319,  
88.7469

■ 33.4985, 41.8319,  
88.7469

309.5155,  
353.7856, 544.4106

■ 22.6697, 28.9697,  
66.3740

■ 64.5025, 77.9451,  
147.5168

■ 14.4691, 19.0579,  
48.1176

■ 85.4084, 101.9650,  
184.7509

■ 8.5315, 11.7121,  
33.5594

■ 110.4040,  
130.4728, 227.7757

■ 4.4916, 6.5480,  
22.2807

■ 139.8547,  
163.8530, 277.0099

■ 1.9838, 3.1811,  
13.8630

■ 174.1259,  
202.4900, 332.8719

■ 0.6248, 1.2270,  
7.8878

213.5828,

■ 0.0000, 0.0836,

246.7682, 395.7804

3.9365

258.5909,  
297.0719, 466.1538

■ 0.0000, 0.0000,  
1.5906

■ 0.0000, 0.0000,  
0.2841

■ 33.4985, 41.8319,  
88.7469

■ 33.4985, 41.8319,  
88.7469

■ 33.4960, 41.8266,  
88.7469

■ 35.0230, 44.3191,  
89.1475

■ 37.0543, 47.1291,  
89.5828

■ 39.7397, 50.3393,  
90.0609

■ 43.1659, 53.9949,  
90.5859

■ 47.4060, 58.1342,  
91.1614

■ 52.5239, 62.7909,  
91.7905

■ 58.5770, 67.9951,  
92.4760

■ 65.6176, 73.7742,  
93.2204

■ 73.6941, 80.1540,  
94.0261

# Harmonies

## Analogous

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



29.1903, 41.8319, 68.5953



33.4985, 41.8319, 88.7469



39.9653, 41.8319, 96.6530

# Triad

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



33.4985, 41.8319, 88.7469



54.9692, 41.8319, 44.9633



33.1828, 41.8319, 19.6256

# Complementary

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



33.4985, 41.8319, 88.7469



37.2120, 21.0778, 2.1091

# 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.



39.5553, 41.8319, 16.6463



33.4985, 41.8319, 88.7469



52.6152, 41.8319, 28.3449

# Square

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



33.4985, 41.8319, 88.7469



52.8627, 41.8319, 67.2679



46.7568, 41.8319, 19.2926



29.0237, 41.8319, 29.0926



# Rectangle

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



33.4985, 41.8319, 88.7469



44.8034, 41.8319, 92.5035



46.7568, 41.8319, 19.2926



35.1100, 41.8319, 17.9839

# Sweetspot

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



33.5000, 41.8333, 88.7480



67.1293, 77.9527, 106.1160



31.7823, 62.5697, 13.6571



13.7119, 16.1282, 22.6403



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.



33.5000, 41.8333, 88.7480



38.3983, 47.9166, 101.8328



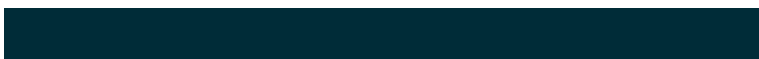
17.7992, 10.4319, 83.5144



15.9339, 17.3020, 20.2214



18.4390, 23.1023, 48.6152



1.6061, 2.0662, 4.0684



# Inverse Universe

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



44.9062, 22.1149, 48.9167



51.5109, 25.3684, 56.0157



50.6922, 48.0382, 6.6025



16.2961, 15.9681, 19.1154



24.6328, 12.1255, 27.0465

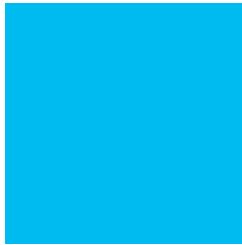


2.0856, 1.0233, 2.4418



# Previews

## White Background



This preview shows how the XYZ color 33.4985, 41.8319, 88.7469 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

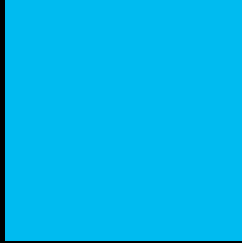
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.4985, 41.8319, 88.7469 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 33.4985, 41.8319, 88.7469**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.4985, 41.8319, 88.7469.



This preview shows how white text looks on a background with the XYZ color 33.4985, 41.8319,



# 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

33.4985, 41.8319, 88.7469

### Protanopia

41.9502, 41.3634, 78.4460

### Deuteranopia

42.3809, 41.3008, 91.3261



## Tritanopia

29.7714, 41.7178, 64.8758

# Trichromacy



## Original Color

33.4985, 41.8319, 88.7469



## Protanomaly

35.2364, 39.5295, 82.1167



## Deuteranomaly

36.1166, 39.7970, 90.5721



## Tritanomaly

31.0683, 41.8889, 72.7776

# Monochromacy



## Original Color

33.4985, 41.8319, 88.7469



## Achromatopsia

23.7775, 25.0158, 27.2422



## Achromatomaly

23.2918, 28.5249, 44.3227

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.4985, 41.8319, 88.7469 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, 187, 240)` looks like.

```
.text, #text, p{  
    color:rgb(0, 187, 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, 187, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 187, 240) }
```

## Border

The CSS property to change the border of an element to XYZ 33.4985, 41.8319, 88.7469 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, 187, 240) }
```



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

```
.border{ border-color:rgb(0, 187, 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, 187, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 187, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 187, 240);  
box-shadow:4px 4px 4px 4px rgb(0, 187,  
240) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.4985, 41.8319, 88.7469 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 187, 240) }
```

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

```
.background{ background-color: rgb(0, 187,  
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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