

# Converting Colors

XYZ(31.2138, 40.8125, 83.5067)

Have a look what the booklet for  
XYZ(31.2138, 40.8125, 83.5067)  
contains.

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# Color

**XYZ(32.4783, 41.4238,  
83.3746)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BBE9
RGB	0, 187, 233
RGB Percent	0%, 73%, 91%
CMY	0.9997, 0.2667, 0.0863
CMYK	1.00, 0.20, 0.00, 0.09
HSL	192°, 100%, 46%
HSV	192°, 100%, 91%
XYZ	32.4783, 41.4238, 83.3746
YIQ	136.3310, -126.2180, -25.3380

# Conversions

## Conversions Part 2

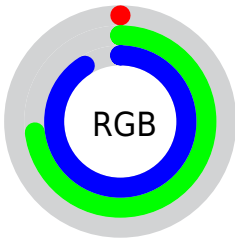
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 104, 233
Decimal	48105
CIELab	70.47, -23.16, -33.88
CIELCh	70, 41.045, 235.643
Yxy	41.4238, 0.2065, 0.2634
Android (android.graphics.Color)	4278238185 (0xFF00BBE9)
YUV	136.3310, 47.6578, -119.5623
Hunter-Lab	64.3613, -22.5568, -31.7522

# Details

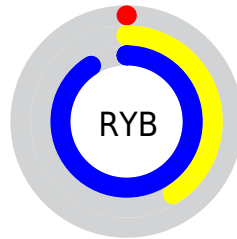
The XYZ color **32.4783, 41.4238, 83.3746** is a dark color, and the websafe version is hex **00CCFF**. The color can be described as middle washed azure. A complement of this color would be **34.5844, 19.2829, 1.9010**, and the grayscale version is **23.3942, 24.6125, 26.8030**.

A 20% lighter version of the original color is **56.4073, 74.5724, 106.0287**, and **16.4609, 20.2245, 44.6311** is the 20% darker color. If you saturate the color by 10%, you get **32.4762, 41.4195, 83.3747**, and if you desaturate by 10%, it is **33.8325, 43.5950, 83.7232**.

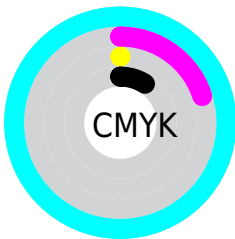
# Distribution



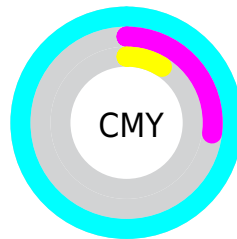
- Red (0%)
- Green (73%)
- Blue (91%)



- Red (0%)
- Yellow (41%)
- Blue (91%)



- Cyan (100%)
- Magenta (20%)
- Yellow (0%)
- Black (9%)




- Cyan (100%)
- Magenta (27%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.4783, 41.4238, 83.3746 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 32.4783, 41.4238, 83.3746 by changing the saturation by 10% instead.





 32.4783, 41.4238,  
83.3746


 32.4783, 41.4238,  
83.3746


304.9991,  
352.0888, 526.2378


 21.8844, 28.6504,  
61.9568


 62.9203, 77.3268,  
139.9539


 13.8881, 18.8165,  
44.5622


 83.4991, 101.2252,  
175.9525


 8.1241, 11.5378,  
30.7723


 108.1370,  
129.6007, 217.6485

 4.2269, 6.4298,  
20.1685

 137.1992,  
162.8377, 265.4604

 1.8313, 3.1081,  
12.3323

 171.0512,  
201.3207, 319.8067

 0.5364, 1.1884,  
6.8451

210.0582,

 0.0000, 0.0522,

245.4339, 381.1060

3.2885

254.5858,  
295.5618, 449.7769

■ 0.0000, 0.0000,  
1.2437

■ 0.0000, 0.0000,  
0.0150

■ 32.4783, 41.4238,  
83.3746

■ 32.4783, 41.4238,  
83.3746

■ 32.4762, 41.4195,  
83.3747

■ 33.8325, 43.5950,  
83.7232

■ 35.6511, 46.0518,  
84.1015

■ 38.0727, 48.8667,  
84.5172

■ 41.1779, 52.0817,  
84.9741

■ 45.0344, 55.7322,  
85.4754

■ 49.7016, 59.8490,  
86.0241

■ 55.2325, 64.4600,  
86.6226

■ 61.6759, 69.5907,  
87.2733

■ 69.0766, 75.2645,  
87.9784

# Harmonies

## Analogous

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



28.7717, 41.4238, 63.2215



32.4783, 41.4238, 83.3746



38.3922, 41.4238, 93.3764

# Triad

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



32.4783, 41.4238, 83.3746



53.8178, 41.4238, 47.9930



34.0071, 41.4238, 19.1663

# Complementary

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



32.4783, 41.4238, 83.3746



34.5844, 19.2829, 1.9010

# 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.



40.3685, 41.4238, 17.2230



32.4783, 41.4238, 83.3746



52.3007, 41.4238, 30.8268

# Square

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



32.4783, 41.4238, 83.3746



51.1157, 41.4238, 69.5615



47.1782, 41.4238, 20.8108



29.5808, 41.4238, 27.1779



# Rectangle

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



32.4783, 41.4238, 83.3746



42.9845, 41.4238, 91.3252



47.1782, 41.4238, 20.8108



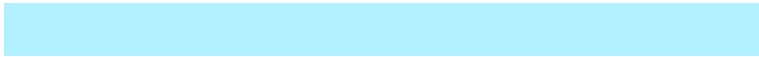
35.9679, 41.4238, 17.9013

# Sweetspot

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



32.4797, 41.4252, 83.3756



67.6537, 79.0016, 106.2908



29.5718, 58.4516, 11.9870



13.8383, 16.3811, 22.6825



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.



32.4797, 41.4252, 83.3756



39.7963, 50.7126, 102.2988



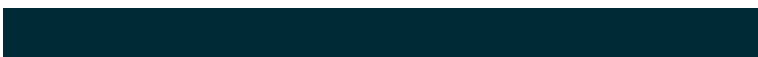
17.1462, 10.7582, 78.2645



15.2503, 16.5870, 19.3201



18.5165, 23.6801, 47.3378



1.5183, 1.9881, 3.7386



# Inverse Universe

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



42.5752, 20.9132, 48.8076



52.2165, 25.6506, 59.7317



46.0440, 42.2021, 5.7209



15.5799, 15.2598, 18.3390



24.2016, 11.8833, 27.9266

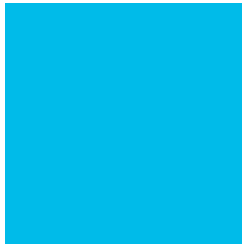


1.9329, 0.9461, 2.3639



# Previews

## White Background



This preview shows how the XYZ color 32.4783, 41.4238, 83.3746 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

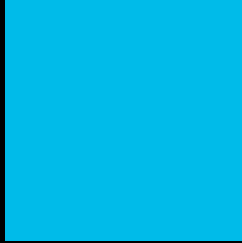
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 32.4783, 41.4238, 83.3746 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

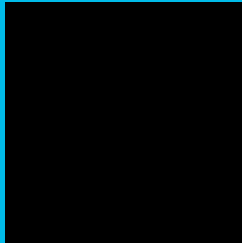
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 32.4783, 41.4238, 83.3746**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.4783, 41.4238, 83.3746.



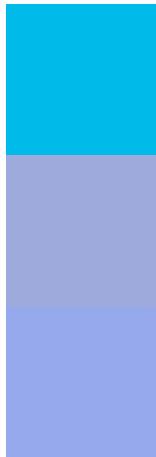
This preview shows how white text looks on a background with the XYZ color 32.4783, 41.4238,



# 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

32.4783, 41.4238, 83.3746

### Protanopia

41.2068, 40.8123, 73.4159

### Deuteranopia

42.0517, 40.9744, 85.8132



## Tritanopia

29.4329, 41.2347, 64.1654

# Trichromacy



## Original Color

32.4783, 41.4238, 83.3746



## Protanomaly

34.4828, 39.2536, 76.9934



## Deuteranomaly

35.3850, 39.5397, 85.1238



## Tritanomaly

30.4633, 41.3015, 70.6564

# Monochromacy



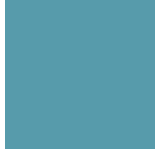
## Original Color

32.4783, 41.4238, 83.3746



## Achromatopsia

23.4014, 24.6201, 26.8113



## Achromatomaly

23.0025, 28.4092, 42.7992

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.4783, 41.4238, 83.3746 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, 233)` looks like.

```
.text, #text, p{  
    color:rgb(0, 187, 233)  
}
```

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, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 187, 233) }
```

## Border

The CSS property to change the border of an element to XYZ 32.4783, 41.4238, 83.3746 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, 233) }
```



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

```
.border{ border-color:rgb(0, 187, 233) }
```

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, 233) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 187, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 187, 233);  
box-shadow:4px 4px 4px 4px rgb(0, 187,  
233) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.4783, 41.4238, 83.3746 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, 233) }
```

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

```
.background{ background-color: rgb(0, 187,  
233) }
```

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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