

# Converting Colors

XYZ(46.4717, 69.6582, 81.2021)

Have a look what the booklet for  
XYZ(46.4717, 69.6582, 81.2021)  
contains.

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# Color

**XYZ(46.4733, 69.5390,  
81.4940)**

# Conversions

## Conversions Part 1

Format	Color
Hex	31F2E0
RGB	49, 242, 224
RGB Percent	19%, 95%, 88%
CMY	0.8078, 0.0510, 0.1216
CMYK	0.80, 0.00, 0.07, 0.05
HSL	174°, 88%, 57%
HSV	174°, 80%, 95%
XYZ	46.4733, 69.5390, 81.4940
YIQ	182.2410, -109.2500, -46.5140

# Conversions

## Conversions Part 2

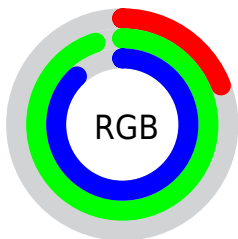
<b>Format</b>	<b>Color</b>
<b>RYB</b>	49, 150, 242
Decimal	3273440
CIELab	86.77, -49.07, -4.40
CIELCh	87, 49.267, 185.120
Yxy	69.5390, 0.2353, 0.3521
Android (android.graphics.Color)	4281463520 (0xFF31F2E0)
YUV	182.2410, 20.5872, -116.8524
Hunter-Lab	83.3900, -46.4545, 0.4311

# Details

The XYZ color **46.4733, 69.5390, 81.4940** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light washed cyan. A complement of this color would be **38.7317, 21.4812, 7.4178**, and the grayscale version is **44.5319, 46.8511, 51.0208**.

A 20% lighter version of the original color is **62.8633, 83.4071, 107.3937**, and **24.5104, 37.5625, 43.4946** is the 20% darker color. If you saturate the color by 10%, you get **45.3001, 68.9709, 79.8529**, and if you desaturate by 10%, it is **48.2803, 70.4365, 83.1891**.

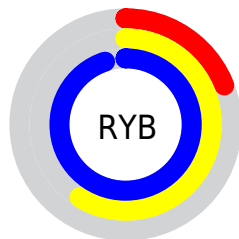
# Distribution



Red (19%)

Green (95%)

Blue (88%)



Red (19%)

Yellow (59%)

Blue (95%)

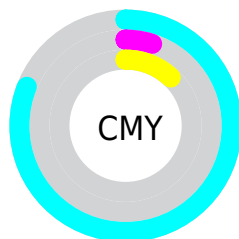


Cyan (80%)

Magenta (0%)

Yellow (7%)

Black (5%)



Cyan (81%)

Magenta (5%)


Yellow (12%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.4733, 69.5390, 81.4940 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 46.4733, 69.5390, 81.4940 by changing the saturation by 10% instead.





 46.4733, 69.5390,  
81.4940


 46.4733, 69.5390,  
81.4940

363.3923,  
458.9297, 519.7925


 32.8257, 51.1508,  
60.4152


 84.1504, 118.5511,  
137.2945


 22.1515, 36.3286,  
43.3259


 108.9106,  
149.9438, 172.8532

 14.0855, 24.6881,  
29.8076


 138.1058,  
186.4401, 214.0757

 8.2623, 15.8448,  
19.4418

 172.1011,  
228.4244, 261.3804

 4.3164, 9.4144,  
11.8099

211.2621,  
276.2811, 315.1859

 1.8827, 5.0125,  
6.4934

255.9541,

 0.5667, 2.2546,

330.3947, 375.9107

3.0738

306.5424,  
391.1494, 443.9734

■ 0.0000, 0.7495,  
1.1324

■ 0.0000, 0.0000,  
0.0000

■ 46.4733, 69.5390,  
81.4940

■ 46.4733, 69.5390,  
81.4940

■ 45.3001, 68.9709,  
79.8529

■ 48.2803, 70.4365,  
83.1891


■ 44.6113, 68.6505,  
78.2541


■ 50.8028, 71.7008,  
84.9374


■ 44.5960, 68.6435,  
78.2139


■ 54.1169, 73.3728,  
86.7441


■ 58.2871, 75.4856,  
88.6124

 63.3716, 78.0692,  
90.5450

 69.4231, 81.1509,  
92.5444

 76.4907, 84.7559,  
94.6131

 84.6198, 88.9076,  
96.7533

 89.3707, 91.3174,  
98.7572

# Harmonies

## Analogous

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



48.0393, 69.5390, 52.1321



46.4733, 69.5390, 81.4940



49.6480, 69.5390, 118.1723

# Triad

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



46.4733, 69.5390, 81.4940



79.6107, 69.5390, 140.0145



75.8135, 69.5390, 31.6574

# Complementary

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



46.4733, 69.5390, 81.4940



38.7317, 21.4812, 7.4178

# 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.



85.8233, 69.5390, 44.8840



46.4733, 69.5390, 81.4940



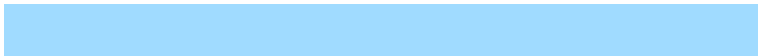
88.1873, 69.5390, 105.5165

# Square

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



46.4733, 69.5390, 81.4940



68.0825, 69.5390, 157.6502



90.5824, 69.5390, 70.2181



64.1460, 69.5390, 28.6234



# Rectangle

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



46.4733, 69.5390, 81.4940



54.2689, 69.5390, 140.2442



90.5824, 69.5390, 70.2181



79.5247, 69.5390, 34.8241

# Sweetspot

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



46.4753, 69.5416, 81.4957



75.1012, 89.8206, 103.2398



34.7137, 64.9685, 13.6180



15.5631, 18.9648, 21.9260



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.



46.4753, 69.5416, 81.4957



50.4767, 77.4214, 88.7505



30.7155, 33.9055, 88.9327



16.1801, 17.9021, 19.9712



23.9840, 36.8856, 42.1603



2.0136, 3.0759, 3.6042



# Inverse Universe

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



38.7317, 21.4812, 7.4178



41.6257, 21.5914, 3.4150



44.6617, 34.0754, 7.1307



15.8327, 15.7828, 16.6751



19.7736, 10.1819, 1.4586

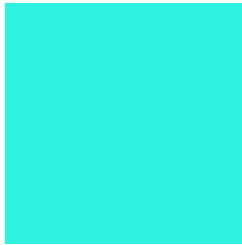


1.6652, 0.8551, 0.2276



# Previews

## White Background



This preview shows how the XYZ color 46.4733, 69.5390, 81.4940 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

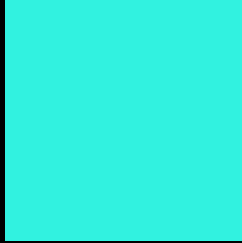
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.4733, 69.5390, 81.4940 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

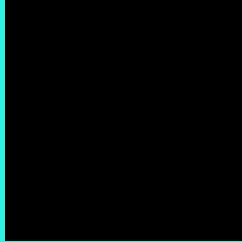
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

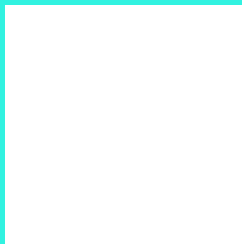
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 46.4733, 69.5390, 81.4940

## Background



This preview shows how black text looks on a background with the XYZ color 46.4733, 69.5390, 81.4940.



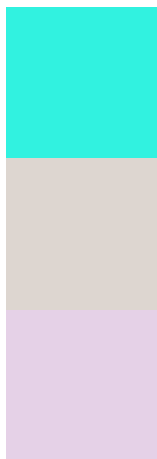
This preview shows how white text looks on a background with the XYZ color 46.4733, 69.5390,



# 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

46.4733, 69.5390, 81.4940

### Protanopia

65.2505, 68.0194, 69.3645

### Deuteranopia

69.5374, 68.0285, 85.0671



## Tritanopia

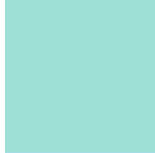
51.7918, 69.1422, 105.2238

# Trichromacy



## Original Color

46.4733, 69.5390, 81.4940



## Protanomaly

52.8938, 65.4354, 73.4608



## Deuteranomaly

55.1699, 65.2069, 83.0772



## Tritanomaly

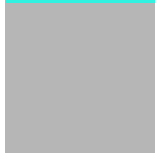
49.5762, 69.0584, 96.3046

# Monochromacy



## Original Color

46.4733, 69.5390, 81.4940



## Achromatopsia

44.4628, 46.7784, 50.9417



## Achromatomaly

41.5024, 52.2853, 60.7280

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.4733, 69.5390, 81.4940 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(49, 242, 224)` looks like.

```
.text, #text, p{  
    color:rgb(49, 242, 224)  
}
```

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(49, 242, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 242, 224) }
```

## Border

The CSS property to change the border of an element to XYZ 46.4733, 69.5390, 81.4940 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(49, 242, 224) }
```



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

```
.border{ border-color:rgb(49, 242, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 242, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 242, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 242, 224);  
box-shadow:4px 4px 4px 4px rgb(49, 242,  
224) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.4733, 69.5390, 81.4940 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 242, 224) }
```

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

```
.background{ background-color: rgb(49, 242,  
224) }
```

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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