

# Converting Colors

XYZ(38.5898, 70.9582, 50.6999)

Have a look what the booklet for  
XYZ(38.5898, 70.9582, 50.6999)  
contains.

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# Color

**XYZ(42.5717, 73.2291,  
50.9206)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FDAC
RGB	0, 253, 172
RGB Percent	0%, 99%, 67%
CMY	0.9999, 0.0078, 0.3255
CMYK	1.00, 0.00, 0.32, 0.01
HSL	161°, 100%, 50%
HSV	161°, 100%, 99%
XYZ	42.5717, 73.2291, 50.9206
YIQ	168.1190, -124.7870, -78.8270

# Conversions

## Conversions Part 2

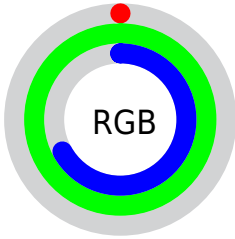
Format	Color
<a href="#">RYB</a>	<a href="#">0, 151, 253</a>
Decimal	<a href="#">64940</a>
CIELab	<a href="#">88.56, -68.12, 25.03</a>
CIELCh	<a href="#">89, 72.571, 159.825</a>
Yxy	<a href="#">73.2291, 0.2553, 0.4392</a>
Android (android.graphics.Color)	<a href="#">4278255020 (0xFF00FDAC)</a>
YUV	<a href="#">168.1190, 1.9133, -147.4404</a>
Hunter-Lab	<a href="#">85.5740, -60.9536, 24.6214</a>

# Details

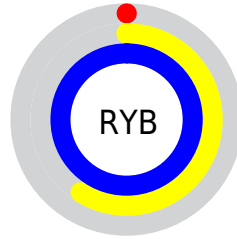
The XYZ color **42.5717, 73.2291, 50.9206** is a dark color, and the websafe version is hex **33FF99**. The color can be described as middle saturated spring green. A complement of this color would be **41.9965, 21.4788, 9.7242**, and the grayscale version is **37.3188, 39.2622, 42.7566**.

A 20% lighter version of the original color is **56.8338, 80.7663, 85.9928**, and **22.8449, 40.3621, 24.0394** is the 20% darker color. If you saturate the color by 10%, you get **42.5721, 73.2313, 50.9166**, and if you desaturate by 10%, it is **43.7846, 73.7636, 55.1656**.

# Distribution



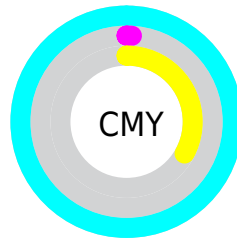
- Red (0%)
- Green (99%)
- Blue (67%)



- Red (0%)
- Yellow (59%)
- Blue (99%)



- Cyan (100%)
- Magenta (0%)
- Yellow (32%)
- Black (1%)



- Cyan (100%)
- Magenta (1%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.5717, 73.2291, 50.9206 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 42.5717, 73.2291, 50.9206 by changing the saturation by 10% instead.





 42.5717, 73.2291,  
50.9206


 42.5717, 73.2291,  
50.9206


347.7989,  
471.8084, 407.0930


 29.7423, 54.1633,  
35.7691


 78.3239, 123.8024,  
92.9477


 19.7901, 38.7322,  
23.9677


 101.9774,  
156.0787, 120.6604


 12.3500, 26.5515,  
15.0977

 129.9696,  
193.5273, 153.3973

 7.0564, 17.2367,  
8.7406

 162.6658,  
236.5326, 191.5768

 3.5440, 10.4034,  
4.4779

 200.4315,  
285.4789, 235.6177

 1.4476, 5.6672,  
1.8910


243.6320,

 0.2897, 2.6438,

340.7508, 285.9383

0.4870


292.6327,  
402.7325, 342.9572


 0.0000, 0.9487,  
0.0000

 0.0000, 0.0000,  
0.0000


 42.5717, 73.2291,  
50.9206


 42.5717, 73.2291,  
50.9206

 42.5721, 73.2313,  
50.9166

 43.7846, 73.7636,  
55.1656

 45.5728, 74.5872,  
59.6878

 48.1007, 75.7865,  
64.5006

 51.4680, 77.4127,  
69.6129

■ 55.7582, 79.5089,  
75.0324

■ 61.0443, 82.1126,  
80.7666

■ 67.3921, 85.2575,  
86.8221

■ 74.8612, 88.9744,  
93.2056

■ 83.5070, 93.2917,  
99.9232

# Harmonies

## Analogous

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



50.2127, 73.2291, 26.2877



42.5717, 73.2291, 50.9206



41.4505, 73.2291, 97.3200

# Triad

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



42.5717, 73.2291, 50.9206



75.4985, 73.2291, 217.2287



98.7501, 73.2291, 32.5965

# Complementary

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



42.5717, 73.2291, 50.9206



41.9965, 21.4788, 9.7242

# 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.



108.2668, 73.2291, 64.4055



42.5717, 73.2291, 50.9206



93.4329, 73.2291, 178.9099

# Square

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



42.5717, 73.2291, 50.9206



58.6378, 73.2291, 208.5758



106.1728, 73.2291, 117.7696



81.8544, 73.2291, 19.1998



# Rectangle

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



42.5717, 73.2291, 50.9206



44.3174, 73.2291, 137.8549



106.1728, 73.2291, 117.7696



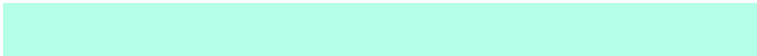
103.0367, 73.2291, 40.7908

# Sweetspot

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



42.5736, 73.2320, 50.9223



68.5889, 86.7858, 88.3712



38.8150, 72.1546, 11.8825



14.0686, 18.2720, 18.3499



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.



42.5736, 73.2320, 50.9223



43.3366, 74.5506, 51.8176



40.9859, 53.6027, 101.1181



18.2929, 20.3767, 21.8451



22.7154, 38.9827, 27.4502



2.2616, 3.8156, 2.9353



# Inverse Universe

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



41.9965, 21.4788, 9.7242



42.7498, 21.8639, 9.8804



41.3446, 22.5534, 2.1751



18.2490, 18.0829, 19.9286



22.3975, 11.4483, 5.4780

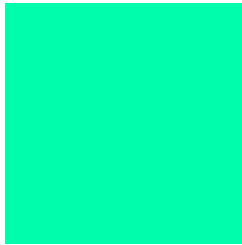


2.2281, 1.1336, 0.7826



# Previews

## White Background



This preview shows how the XYZ color 42.5717, 73.2291, 50.9206 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

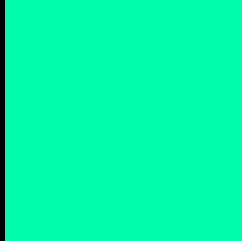
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.5717, 73.2291, 50.9206 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

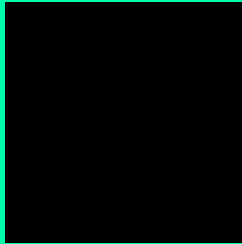
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 42.5717, 73.2291, 50.9206**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.5717, 73.2291, 50.9206.



This preview shows how white text looks on a background with the XYZ color 42.5717, 73.2291,



# Color Blindness Simulation

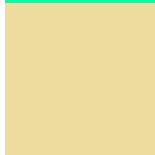
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



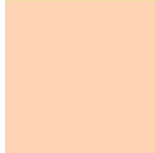
### Original Color

42.5717, 73.2291, 50.9206



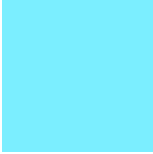
### Protanopia

66.6041, 71.6252, 42.2129



### Deuteranopia

73.1240, 71.6832, 53.6982



## **Tritanopia**

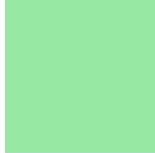
56.7929, 72.5800, 105.6238

# Trichromacy



## Original Color

42.5717, 73.2291, 50.9206



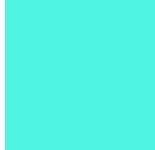
## Protanomaly

48.1407, 66.9012, 44.5584



## Deuteranomaly

50.4053, 65.8339, 52.1701



## Tritanomaly

48.7831, 71.1571, 82.3977

# Monochromacy



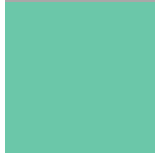
## Original Color

42.5717, 73.2291, 50.9206



## Achromatopsia

37.2190, 39.1572, 42.6422



## Achromatomaly

33.6483, 46.8372, 44.8032

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.5717, 73.2291, 50.9206 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, 253, 172)` looks like.

```
.text, #text, p{  
    color:rgb(0, 253, 172)  
}
```

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, 253, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 253, 172) }
```

## Border

The CSS property to change the border of an element to XYZ 42.5717, 73.2291, 50.9206 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, 253, 172) }
```



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

```
.border{ border-color:rgb(0, 253, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 253, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 253, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 253, 172);  
box-shadow:4px 4px 4px 4px rgb(0, 253,  
172) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.5717, 73.2291, 50.9206 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 253, 172) }
```

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

```
.background{ background-color: rgb(0, 253,  
172) }
```

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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