

# Converting Colors

XYZ(40.7175, 70.9348, 45.9401)

Have a look what the booklet for  
XYZ(40.7175, 70.9348, 45.9401)  
contains.

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# Color

**XYZ(40.7072, 70.9798,  
45.7374)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FAA2
RGB	0, 250, 162
RGB Percent	0%, 98%, 64%
CMY	0.9999, 0.0196, 0.3647
CMYK	1.00, 0.00, 0.35, 0.02
HSL	159°, 100%, 49%
HSV	159°, 100%, 98%
XYZ	40.7072, 70.9798, 45.7374
YIQ	165.2180, -120.7520, -80.3680

# Conversions

## Conversions Part 2

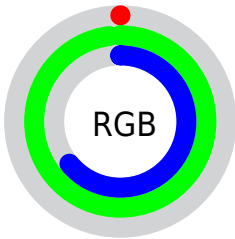
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 152, 250
Decimal	64162
CIELab	87.48, -69.12, 28.62
CIELCh	87, 74.815, 157.508
Yxy	70.9798, 0.2586, 0.4509
Android (android.graphics.Color)	4278254242 (0xFF00FAA2)
YUV	165.2180, -1.5865, -144.8962
Hunter-Lab	84.2495, -61.1900, 26.7873

# Details

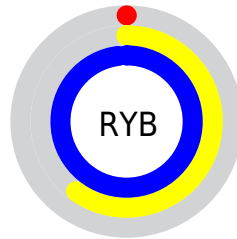
The XYZ color **40.7072, 70.9798, 45.7374** is a dark color, and the websafe version is hex **33FF99**. The color can be described as middle saturated spring green. A complement of this color would be **41.1889, 21.0305, 11.1279**, and the grayscale version is **35.9230, 37.7938, 41.1575**.

A 20% lighter version of the original color is **55.2238, 80.1072, 78.1973**, and **21.6641, 38.8251, 21.1040** is the 20% darker color. If you saturate the color by 10%, you get **40.7077, 70.9820, 45.7339**, and if you desaturate by 10%, it is **41.9205, 71.5136, 50.0242**.

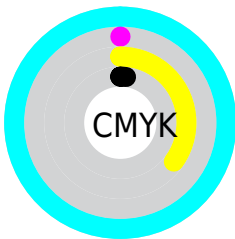
# Distribution



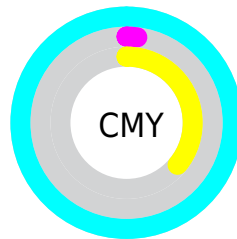
- Red (0%)
- Green (98%)
- Blue (64%)



- Red (0%)
- Yellow (60%)
- Blue (98%)



- Cyan (100%)
- Magenta (0%)
- Yellow (35%)
- Black (2%)




- Cyan (100%)
- Magenta (2%)
- Yellow (36%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.7072, 70.9798, 45.7374 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 40.7072, 70.9798, 45.7374 by changing the saturation by 10% instead.





 40.7072, 70.9798,  
45.7374


 40.7072, 70.9798,  
45.7374


340.1789,  
463.9828, 385.9988

 28.2770, 52.3257,  
31.6915


 75.5167, 120.6050,  
85.1560


 18.6761, 37.2648,  
20.8631


 98.6268, 152.3448,  
111.3658


 11.5391, 25.4125,  
12.8337


 126.0276,  
189.2154, 142.4672

 6.5006, 16.3847,  
7.1847

 158.0843,  
231.6011, 178.8789

 3.1953, 9.7968,  
3.4977

 195.1625,  
279.8863, 221.0193

 1.2579, 5.2644,  
1.3540

237.6274,

 0.1514, 2.4032,

334.4554, 269.3071

0.1055

285.8444,  
395.6928, 324.1607

■ 0.0000, 0.8276,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 40.7072, 70.9798,  
45.7374

■ 40.7072, 70.9798,  
45.7374


■ 40.7077, 70.9820,  
45.7339


■ 41.9205, 71.5136,  
50.0242


■ 43.7018, 72.3318,  
54.6275


■ 46.2120, 73.5192,  
59.5619


■ 49.5478, 75.1256,  
64.8373

 53.7907, 77.1928,  
70.4627

 59.0120, 79.7574,  
76.4465

 65.2755, 82.8523,  
82.7966

 72.6395, 86.5074,  
89.5205

 81.1580, 90.7504,  
96.6256

# Harmonies

## Analogous

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



48.8325, 70.9798, 22.9686



40.7072, 70.9798, 45.7374



39.0928, 70.9798, 90.6981

# Triad

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



40.7072, 70.9798, 45.7374



71.9981, 70.9798, 219.3121



98.1379, 70.9798, 31.9141

# Complementary

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



40.7072, 70.9798, 45.7374



41.1889, 21.0305, 11.1279

# 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.



107.0306, 70.9798, 65.2640



40.7072, 70.9798, 45.7374



90.3182, 70.9798, 182.9167

# Square

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



40.7072, 70.9798, 45.7374



55.2921, 70.9798, 206.4198



103.9438, 70.9798, 120.7668



81.3030, 70.9798, 17.7627



# Rectangle

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



40.7072, 70.9798, 45.7374



41.6104, 70.9798, 131.4519



103.9438, 70.9798, 120.7668



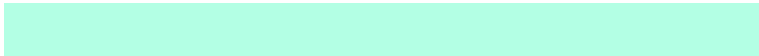
102.2778, 70.9798, 40.5140

# Sweetspot

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



40.7090, 70.9826, 45.7390



68.2482, 86.6495, 86.5767



38.5695, 70.6330, 11.6016



13.9872, 18.2394, 17.9210



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.



40.7090, 70.9826, 45.7390



42.5724, 74.2450, 47.7936



41.9853, 56.3605, 99.1116



17.4911, 19.4987, 20.7869



21.6627, 37.6781, 24.6308



2.0566, 3.5097, 2.5459



# Inverse Universe

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



41.1889, 21.0305, 11.1279



43.0757, 21.9943, 11.5968



39.9799, 21.4326, 2.0306



17.4969, 17.3261, 19.2067



21.9080, 11.1789, 6.2241

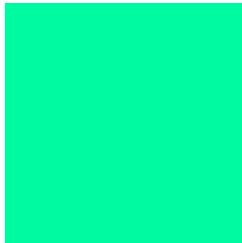


2.0773, 1.0546, 0.8303



# Previews

## White Background



This preview shows how the XYZ color 40.7072, 70.9798, 45.7374 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

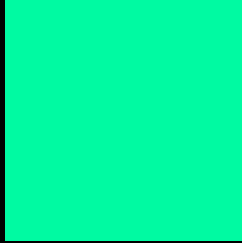
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.7072, 70.9798, 45.7374 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

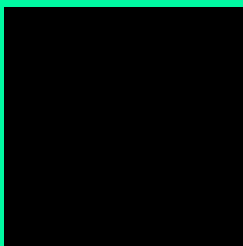
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

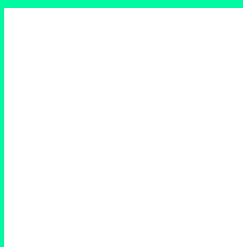
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 40.7072, 70.9798, 45.7374**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.7072, 70.9798, 45.7374.



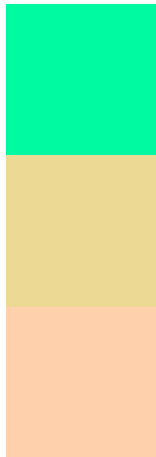
This preview shows how white text looks on a background with the XYZ color 40.7072, 70.9798,



# 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

40.7072, 70.9798, 45.7374

### Protanopia

64.4191, 69.4260, 38.0223

### Deuteranopia

70.7796, 69.1229, 48.1396



## Tritanopia

54.0431, 70.7314, 105.4119

# Trichromacy



## Original Color

40.7072, 70.9798, 45.7374



## Protanomaly

46.3468, 64.8226, 40.2063



## Deuteranomaly

48.3559, 63.2839, 46.7122



## Tritanomaly

47.0500, 69.8830, 79.4156

# Monochromacy



## Original Color

40.7072, 70.9798, 45.7374



## Achromatopsia

35.7637, 37.6262, 40.9749



## Achromatomaly

32.2665, 45.1634, 42.1388

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.7072, 70.9798, 45.7374 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, 250, 162)` looks like.

```
.text, #text, p{  
    color:rgb(0, 250, 162)  
}
```

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, 250, 162) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 250, 162) }
```

## Border

The CSS property to change the border of an element to XYZ 40.7072, 70.9798, 45.7374 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, 250, 162) }
```



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

```
.border{ border-color:rgb(0, 250, 162) }
```

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

Here you see how a box with a 4 pixel rgb(0, 250, 162) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 250, 162); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 250, 162);  
box-shadow:4px 4px 4px 4px rgb(0, 250,  
162) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.7072, 70.9798, 45.7374 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 250, 162) }
```

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

```
.background{ background-color: rgb(0, 250,  
162) }
```

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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