

# Converting Colors

XYZ(23.9563, 60.9908, 40.2017)

Have a look what the booklet for  
XYZ(23.9563, 60.9908, 40.2017)  
contains.

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# Color

**XYZ(38.9283, 68.7885,  
40.9315)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00F798
RGB	0, 247, 152
RGB Percent	0%, 97%, 60%
CMY	0.9999, 0.0314, 0.4039
CMYK	1.00, 0.00, 0.38, 0.03
HSL	157°, 100%, 48%
HSV	157°, 100%, 97%
XYZ	38.9283, 68.7885, 40.9315
YIQ	162.3170, -116.7170, -81.9090

# Conversions

## Conversions Part 2

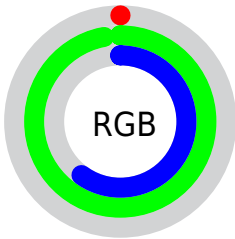
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 153, 247
Decimal	63384
CIELab	86.40, -70.06, 32.21
CIELCh	86, 77.107, 155.311
Yxy	68.7885, 0.2619, 0.4628
Android (android.graphics.Color)	4278253464 (0xFF00F798)
YUV	162.3170, -5.0863, -142.3520
Hunter-Lab	82.9388, -61.3619, 28.7967

# Details

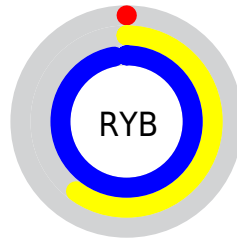
The XYZ color **38.9283, 68.7885, 40.9315** is a dark color, and the websafe version is hex **33FF99**. The color can be described as middle saturated spring green. A complement of this color would be **40.4265, 20.6023, 12.6800**, and the grayscale version is **34.5588, 36.3586, 39.5945**.

A 20% lighter version of the original color is **53.8325, 79.5357, 71.5461**, and **20.4978, 37.3153, 18.1788** is the 20% darker color. If you saturate the color by 10%, you get **38.9287, 68.7907, 40.9280**, and if you desaturate by 10%, it is **40.1338, 69.3183, 45.2162**.

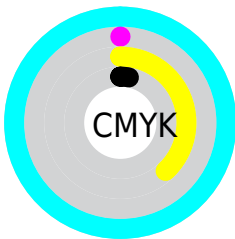
# Distribution



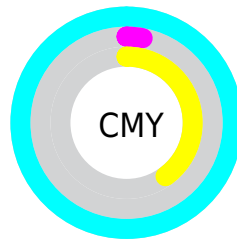
- Red (0%)
- Green (97%)
- Blue (60%)



- Red (0%)
- Yellow (60%)
- Blue (97%)



- Cyan (100%)
- Magenta (0%)
- Yellow (38%)
- Black (3%)




- Cyan (100%)
- Magenta (3%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.9283, 68.7885, 40.9315 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 38.9283, 68.7885, 40.9315 by changing the saturation by 10% instead.





 38.9283, 68.7885,  
40.9315


 38.9283, 68.7885,  
40.9315

332.7980,  
456.2847, 365.7024


 26.8844, 50.5395,  
27.9463


 72.8235, 117.4794,  
77.8324


 17.6226, 35.8422,  
18.0465


 95.4056, 148.6902,  
102.5852


 10.7774, 24.3124,  
10.8136


 122.2312,  
184.9902, 132.0976

 5.9835, 15.5655,  
5.8290

 153.6655,  
226.7640, 166.7881

 2.8756, 9.2172,  
2.6743

 190.0740,  
274.3960, 207.0753

 1.0883, 4.8831,  
0.9304

231.8220,

 0.0153, 2.1789,

328.2705, 253.3777

0.0000

279.2749,  
388.7719, 306.1139

■ 0.0000, 0.7084,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 38.9283, 68.7885,  
40.9315

■ 38.9283, 68.7885,  
40.9315


■ 38.9287, 68.7907,  
40.9280


■ 40.1338, 69.3183,  
45.2162


■ 41.9007, 70.1282,  
49.8584


■ 44.3861, 71.3010,  
54.8741


■ 47.6843, 72.8852,  
60.2747

 51.8748, 74.9215,  
66.0705

 57.0268, 77.4456,  
72.2712

 63.2028, 80.4894,  
78.8862

 70.4596, 84.0822,  
85.9241

 78.8499, 88.2509,  
93.3936

# Harmonies

## Analogous

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



47.5081, 68.7885, 19.9681



38.9283, 68.7885, 40.9315



36.8535, 68.7885, 84.3541

# Triad

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



38.9283, 68.7885, 40.9315



68.6045, 68.7885, 221.2638



97.5188, 68.7885, 31.2905

# Complementary

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



38.9283, 68.7885, 40.9315



40.4265, 20.6023, 12.6800

# 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.



105.7789, 68.7885, 66.1782



38.9283, 68.7885, 40.9315



87.2546, 68.7885, 186.9103

# Square

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



38.9283, 68.7885, 40.9315



52.0877, 68.7885, 204.1242



101.7179, 68.7885, 123.8219



80.7639, 68.7885, 16.4370



# Rectangle

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



38.9283, 68.7885, 40.9315



39.0396, 68.7885, 125.1754



101.7179, 68.7885, 123.8219



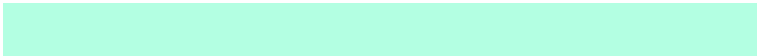
101.5072, 68.7885, 40.2901

# Sweetspot

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



38.9301, 68.7912, 40.9331



67.9040, 86.5118, 84.7645



38.3881, 69.1665, 11.3281



13.9051, 18.2066, 17.4887



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.



38.9301, 68.7912, 40.9331



41.8382, 73.9513, 43.9275



42.9923, 59.1214, 97.1446



16.7108, 18.6435, 19.7614



20.6589, 36.4084, 22.0215



1.8658, 3.2200, 2.1994



# Inverse Universe

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



40.4265, 20.6023, 12.6800



43.4488, 22.1435, 13.5614



38.7012, 20.4586, 1.9100



16.7629, 16.5880, 18.4982



21.4430, 10.9206, 7.0412

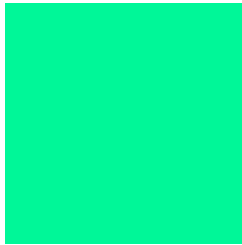


1.9332, 0.9793, 0.8748



# Previews

## White Background



This preview shows how the XYZ color 38.9283, 68.7885, 40.9315 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

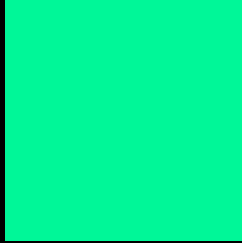
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.9283, 68.7885, 40.9315 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

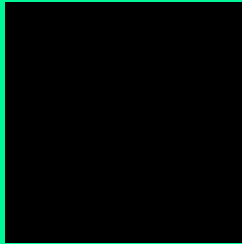
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

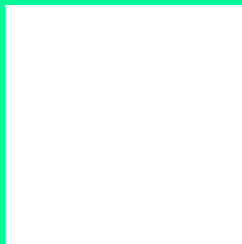
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 38.9283, 68.7885, 40.9315**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.9283, 68.7885, 40.9315.



This preview shows how white text looks on a background with the XYZ color 38.9283, 68.7885,



# 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

38.9283, 68.7885, 40.9315

### Protanopia

62.3110, 67.2809, 34.1285

### Deuteranopia

68.4978, 66.9667, 43.4981



## Tritanopia

51.7175, 68.6963, 104.2998

# Trichromacy



## Original Color

38.9283, 68.7885, 40.9315



## Protanomaly

44.4431, 62.7022, 36.1459



## Deuteranomaly

46.2620, 61.1286, 41.7085



## Tritanomaly

45.0782, 67.6126, 76.3203

# Monochromacy



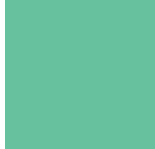
## Original Color

38.9283, 68.7885, 40.9315



## Achromatopsia

34.3422, 36.1307, 39.3463



## Achromatomaly

30.8350, 43.4921, 39.1174

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.9283, 68.7885, 40.9315 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, 247, 152)` looks like.

```
.text, #text, p{  
    color:rgb(0, 247, 152)  
}
```

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, 247, 152) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 247, 152) }
```

## Border

The CSS property to change the border of an element to XYZ 38.9283, 68.7885, 40.9315 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, 247, 152) }
```



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

```
.border{ border-color:rgb(0, 247, 152) }
```

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

Here you see how a box with a 4 pixel rgb(0, 247, 152) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 247, 152); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 247, 152);  
box-shadow:4px 4px 4px 4px rgb(0, 247,  
152) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.9283, 68.7885, 40.9315 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 247, 152) }
```

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

```
.background{ background-color: rgb(0, 247,  
152) }
```

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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