

# Converting Colors

XYZ(27.5998, 67.5766, 41.2437)

Have a look what the booklet for  
XYZ(27.5998, 67.5766, 41.2437)  
contains.

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# Color

**XYZ(41.4275, 73.7870,  
41.7646)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FF98
RGB	0, 255, 152
RGB Percent	0%, 100%, 60%
CMY	0.9999, 0.0000, 0.4039
CMYK	1.00, 0.00, 0.40, 0.00
HSL	156°, 100%, 50%
HSV	156°, 100%, 100%
XYZ	41.4275, 73.7870, 41.7646
YIQ	167.0130, -118.9170, -86.0930

# Conversions

## Conversions Part 2

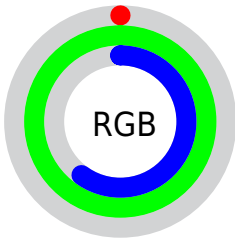
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 160, 255
Decimal	65432
CIELab	88.82, -72.72, 35.41
CIELCh	89, 80.882, 154.035
Yxy	73.7870, 0.2639, 0.4700
Android (android.graphics.Color)	4278255512 (0xFF00FF98)
YUV	167.0130, -7.4014, -146.4704
Hunter-Lab	85.8994, -64.2370, 31.3025

# Details

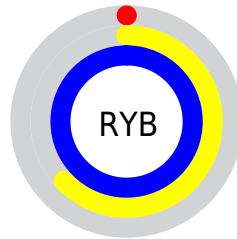
The XYZ color **41.4275, 73.7870, 41.7646** is a dark color, and the websafe version is hex **00FF99**. The color can be described as middle saturated spring green. A complement of this color would be **43.6896, 22.2402, 14.8278**, and the grayscale version is **36.8167, 38.7341, 42.1814**.

A 20% lighter version of the original color is **54.0927, 79.6698, 71.5583**, and **22.2665, 40.8526, 18.7684** is the 20% darker color. If you saturate the color by 10%, you get **41.4269, 73.7868, 41.7615**, and if you desaturate by 10%, it is **42.7226, 74.3528, 46.4239**.

# Distribution



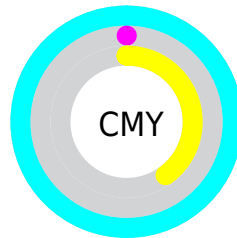
- Red (0%)
- Green (100%)
- Blue (60%)



- Red (0%)
- Yellow (63%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (40%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.4275, 73.7870, 41.7646 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 41.4275, 73.7870, 41.7646 by changing the saturation by 10% instead.





 41.4275, 73.7870,  
41.7646


 41.4275, 73.7870,  
41.7646


343.1363,  
473.7379, 369.2770


 28.8424, 54.6197,  
28.5928


 76.6030, 124.5938,  
79.1095


 19.1053, 39.0973,  
18.5301


 99.9242, 157.0022,  
104.1196


 11.8509, 26.8355,  
11.1579


 127.5548,  
194.5930, 133.9130

 6.7137, 17.4497,  
6.0576

 159.8602,  
237.7506, 168.9082

 3.3284, 10.5556,  
2.8108

 197.2056,  
286.8596, 209.5236

 1.3297, 5.7689,  
0.9989

239.9566,

 0.2053, 2.7051,

342.3042, 256.1778

0.0000

288.4784,  
404.4688, 309.2895

■ 0.0000, 0.9798,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 41.4275, 73.7870,  
41.7646

■ 41.4275, 73.7870,  
41.7646

■ 41.4269, 73.7868,  
41.7615

■ 42.7226, 74.3528,  
46.4239

■ 44.6311, 75.2263,  
51.5025

■ 47.3197, 76.4930,  
57.0185

■ 50.8909, 78.2057,  
62.9854

■ 55.4307, 80.4084,  
69.4157

■ 61.0145, 83.1399,  
76.3211

■ 67.7099, 86.4348,  
83.7126

■ 75.5787, 90.3249,  
91.6010

■ 84.6779, 94.8393,  
99.9965

# Harmonies

## Analogous

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



51.0932, 73.7870, 20.0061



41.4275, 73.7870, 41.7646



38.8713, 73.7870, 88.1740

# Triad

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



41.4275, 73.7870, 41.7646



72.8164, 73.7870, 243.1246



106.2034, 73.7870, 33.8279

# Complementary

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



41.4275, 73.7870, 41.7646



43.6896, 22.2402, 14.8278

# 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.



114.8114, 73.7870, 72.9871



41.4275, 73.7870, 41.7646



93.3959, 73.7870, 206.9799

# Square

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



41.4275, 73.7870, 41.7646



54.9010, 73.7870, 221.5757



109.7372, 73.7870, 137.4251



87.9484, 73.7870, 17.1495



# Rectangle

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



41.4275, 73.7870, 41.7646



41.0513, 73.7870, 132.7710



109.7372, 73.7870, 137.4251



110.4611, 73.7870, 43.9289

# Sweetspot

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



41.4280, 73.7873, 41.7659



67.7029, 86.4314, 83.7052



41.7355, 74.6005, 12.2004



13.8572, 18.1874, 17.2365



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.



41.4280, 73.7873, 41.7659



41.4269, 73.7868, 41.7615



47.4026, 65.9247, 104.8341



18.2261, 20.3500, 21.4935



21.7223, 38.5855, 22.2208



2.1692, 3.7786, 2.4486



# Inverse Universe

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



43.6896, 22.2402, 14.8278



43.6885, 22.2394, 14.8238



41.5133, 21.8065, 2.0218



18.3134, 18.1087, 20.2677



22.8974, 11.6482, 8.1101

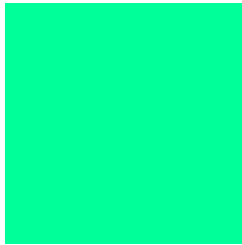


2.2818, 1.1551, 1.0655



# Previews

## White Background



This preview shows how the XYZ color 41.4275, 73.7870, 41.7646 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 41.4275, 73.7870, 41.7646 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 41.4275, 73.7870, 41.7646**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.4275, 73.7870, 41.7646.



This preview shows how white text looks on a background with the XYZ color 41.4275, 73.7870,



# Color Blindness Simulation

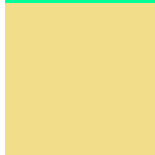
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

41.4275, 73.7870, 41.7646



### Protanopia

66.7195, 72.2487, 34.4736



### Deuteranopia

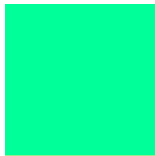
72.6742, 71.9045, 50.0930



## Tritanopia

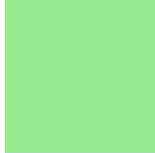
57.5266, 72.9583, 105.6581

# Trichromacy



## Original Color

41.4275, 73.7870, 41.7646



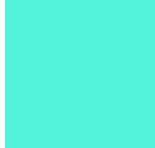
## Protanomaly

47.2337, 67.0333, 36.4358



## Deuteranomaly

49.5266, 65.9214, 46.1902



## Tritanomaly

48.3989, 71.5127, 77.5821

# Monochromacy



## Original Color

41.4275, 73.7870, 41.7646



## Achromatopsia

36.7301, 38.6429, 42.0822



## Achromatomaly

32.8889, 46.5197, 41.4282

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.4275, 73.7870, 41.7646 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, 255, 152)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 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, 255, 152) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 152) }
```

## Border

The CSS property to change the border of an element to XYZ 41.4275, 73.7870, 41.7646 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, 255, 152) }
```



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

```
.border{ border-color:rgb(0, 255, 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, 255, 152)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 152); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 152);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
152) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.4275, 73.7870, 41.7646 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 255, 152) }
```

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

```
.background{ background-color: rgb(0, 255,  
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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