

# Converting Colors

XYZ(51.2866, 92.9945, 50.1808)

Have a look what the booklet for  
XYZ(51.2866, 92.9945, 50.1808)  
contains.

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# Color

**XYZ(42.4608, 74.2003,  
47.2061)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFA4
RGB	0, 255, 164
RGB Percent	0%, 100%, 64%
CMY	0.9999, 0.0000, 0.3569
CMYK	1.00, 0.00, 0.36, 0.00
HSL	159°, 100%, 50%
HSV	159°, 100%, 100%
XYZ	42.4608, 74.2003, 47.2061
YIQ	168.3810, -122.7690, -82.3610

# Conversions

## Conversions Part 2

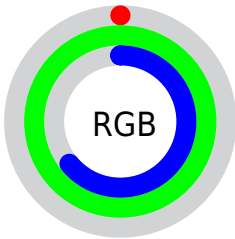
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">0, 155, 255</a>
Decimal	<a href="#">65444</a>
CIELab	<a href="#">89.02, -70.43, 29.69</a>
CIELCh	<a href="#">89, 76.437, 157.141</a>
Yxy	<a href="#">74.2003, 0.2591, 0.4528</a>
Android (android.graphics.Color)	<a href="#">4278255524 (0xFF00FFA4)</a>
YUV	<a href="#">168.3810, -2.1598, -147.6701</a>
Hunter-Lab	<a href="#">86.1396, -62.7563, 27.8057</a>

# Details

The XYZ color **42.4608, 74.2003, 47.2061** 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 **43.1297, 22.0163, 11.8793**, and the grayscale version is **37.4639, 39.4150, 42.9229**.

A 20% lighter version of the original color is **55.6164, 80.2793, 79.5820**, and **22.8355, 41.0802, 21.7646** is the 20% darker color. If you saturate the color by 10%, you get **42.4602, 74.2001, 47.2029**, and if you desaturate by 10%, it is **43.7268, 74.7546, 51.7120**.

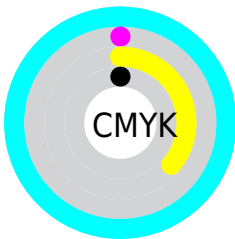
# Distribution



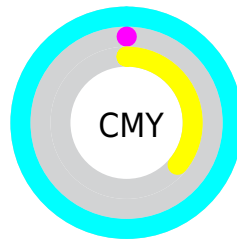
- Red (0%)
- Green (100%)
- Blue (64%)



- Red (0%)
- Yellow (61%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (36%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (36%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.4608, 74.2003, 47.2061 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 42.4608, 74.2003, 47.2061 by changing the saturation by 10% instead.





 42.4608, 74.2003,  
47.2061


 42.4608, 74.2003,  
47.2061


347.3488,  
475.1644, 392.0542


 29.6550, 54.9580,  
32.8431


 78.1573, 125.1797,  
87.3744


 19.7236, 39.3681,  
21.7361


 101.7788,  
157.6856, 114.0168


 12.3014, 27.0462,  
13.4667

 129.7361,  
195.3815, 145.5893

 7.0229, 17.6079,  
7.6162

 162.3947,  
238.6517, 182.5106

 3.5229, 10.6689,  
3.7661

 200.1199,  
287.8807, 225.1992

 1.4359, 5.8446,  
1.4979

243.2771,

 0.2816, 2.7508,

343.4529, 274.0737

0.2164

292.2316,  
405.7527, 329.5525

■ 0.0000, 1.0031,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 42.4608, 74.2003,  
47.2061

■ 42.4608, 74.2003,  
47.2061


■ 42.4602, 74.2001,  
47.2029


■ 43.7268, 74.7546,  
51.7120


■ 45.5912, 75.6103,  
56.5579


■ 48.2200, 76.8532,  
61.7589


■ 51.7153, 78.5354,  
67.3255

 56.1624, 80.7011,  
73.2674

 61.6363, 83.3887,  
79.5937

 68.2042, 86.6326,  
86.3130

 75.9271, 90.4643,  
93.4334

 84.8619, 94.9130,  
100.9627

# Harmonies

## Analogous

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



51.0784, 74.2003, 23.5965



42.4608, 74.2003, 47.2061



40.6832, 74.2003, 94.1905

# Triad

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



42.4608, 74.2003, 47.2061



75.0604, 74.2003, 230.7826



103.0106, 74.2003, 33.4217

# Complementary

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



42.4608, 74.2003, 47.2061



43.1297, 22.0163, 11.8793

# 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.



112.2465, 74.2003, 68.7276



42.4608, 74.2003, 47.2061



94.3705, 74.2003, 192.8827

# Square

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



42.4608, 74.2003, 47.2061



57.5370, 74.2003, 216.5077



108.8346, 74.2003, 127.4134



85.3341, 74.2003, 18.4284



# Rectangle

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



42.4608, 74.2003, 47.2061



43.2703, 74.2003, 137.0341



108.8346, 74.2003, 127.4134



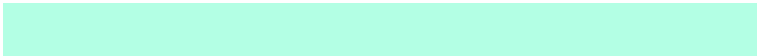
107.3349, 74.2003, 42.5269

# Sweetspot

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



42.4614, 74.2006, 47.2074



68.1967, 86.6289, 86.3058



40.3268, 73.8743, 12.1345



13.9749, 18.2345, 17.8563



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

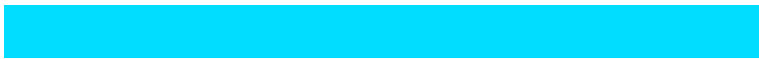
The Same Dimension uses a secret algorithm to generate beautiful new colors.



42.4614, 74.2006, 47.2074



42.4602, 74.2001, 47.2029



43.9077, 58.9349, 103.6691



18.2635, 20.3649, 21.6906



22.2602, 38.8007, 25.0532



2.2195, 3.7987, 2.7139



# Inverse Universe

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



43.1297, 22.0163, 11.8793



43.1286, 22.0155, 11.8754



41.8128, 22.4054, 2.1217



18.2772, 18.0942, 20.0767



22.6000, 11.5293, 6.5440

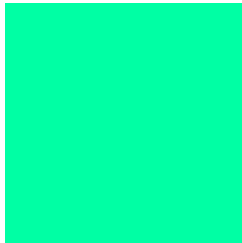


2.2503, 1.1425, 0.8995



# Previews

## White Background



This preview shows how the XYZ color 42.4608, 74.2003, 47.2061 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

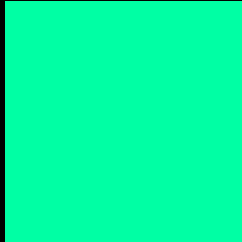
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.4608, 74.2003, 47.2061 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 42.4608, 74.2003, 47.2061**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.4608, 74.2003, 47.2061.



This preview shows how white text looks on a background with the XYZ color 42.4608, 74.2003,



# Color Blindness Simulation

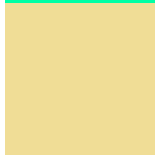
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

42.4608, 74.2003, 47.2061



### Protanopia

67.2967, 72.4402, 39.2896



### Deuteranopia

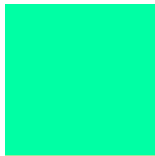
73.5248, 72.6484, 53.3274



## Tritanopia

58.1224, 73.6988, 105.7697

# Trichromacy



## Original Color

42.4608, 74.2003, 47.2061



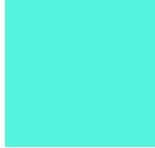
## Protanomaly

48.1922, 67.4167, 41.4831



## Deuteranomaly

50.5596, 66.7760, 50.2687



## Tritanomaly

49.4045, 72.4177, 80.4814

# Monochromacy



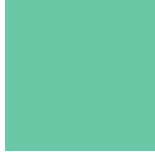
## Original Color

42.4608, 74.2003, 47.2061



## Achromatopsia

37.2190, 39.1572, 42.6422



## Achromatomaly

33.6927, 47.2244, 43.8986

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.4608, 74.2003, 47.2061 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, 164)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 164)  
}
```

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, 164) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 164) }
```

## Border

The CSS property to change the border of an element to XYZ 42.4608, 74.2003, 47.2061 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, 164) }
```



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

```
.border{ border-color:rgb(0, 255, 164) }
```

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, 164) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 164); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 164);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
164) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.4608, 74.2003, 47.2061 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, 164) }
```

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

```
.background{ background-color: rgb(0, 255,  
164) }
```

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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