

# Converting Colors

XYZ(42.2871, 74.1309, 46.2913)

Have a look what the booklet for  
XYZ(42.2871, 74.1309, 46.2913)  
contains.

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# Color

**XYZ(42.2816, 74.1286,  
46.2622)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFA2
RGB	0, 255, 162
RGB Percent	0%, 100%, 64%
CMY	0.9999, 0.0000, 0.3647
CMYK	1.00, 0.00, 0.36, 0.00
HSL	158°, 100%, 50%
HSV	158°, 100%, 100%
XYZ	42.2816, 74.1286, 46.2622
YIQ	168.1530, -122.1270, -82.9830

# Conversions

## Conversions Part 2

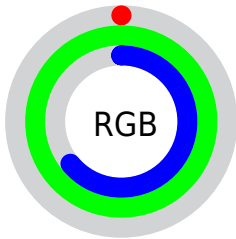
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 156, 255
Decimal	65442
CIELab	88.98, -70.83, 30.65
CIELCh	89, 77.174, 156.599
Yxy	74.1286, 0.2599, 0.4557
Android (android.graphics.Color)	4278255522 (0xFF00FFA2)
YUV	168.1530, -3.0334, -147.4702
Hunter-Lab	86.0980, -63.0124, 28.4108

# Details

The XYZ color **42.2816, 74.1286, 46.2622** 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 **43.2174, 22.0515, 12.3410**, and the grayscale version is **37.3563, 39.3017, 42.7996**.

A 20% lighter version of the original color is **55.3546, 80.1746, 78.2034**, and **22.7807, 41.0583, 21.4762** is the 20% darker color. If you saturate the color by 10%, you get **42.2808, 74.1283, 46.2582**, and if you desaturate by 10%, it is **43.5538, 74.6853, 50.8001**.

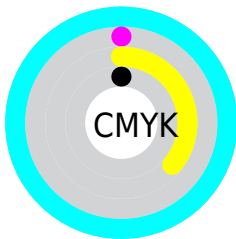
# Distribution



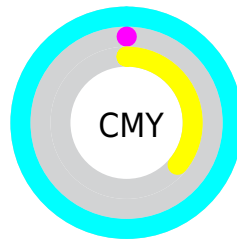
- Red (0%)
- Green (100%)
- Blue (64%)



- 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 42.2816, 74.1286, 46.2622 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 42.2816, 74.1286, 46.2622 by changing the saturation by 10% instead.





 42.2816, 74.1286,  
46.2622


 42.2816, 74.1286,  
46.2622


346.6208,  
474.9171, 388.1699

 29.5139, 54.8993,  
32.1026


 77.8881, 125.0781,  
85.9497


 19.6162, 39.3211,  
21.1744


 101.4577,  
157.5671, 112.3147


 12.2230, 27.0096,  
13.0591


 129.3586,  
195.2447, 143.5852

 6.9690, 17.5804,  
7.3380

 161.9562,  
238.4955, 180.1798

 3.4889, 10.6492,  
3.5928

 199.6159,  
287.7037, 222.5170

 1.4173, 5.8315,  
1.4047


242.7030,

 0.2685, 2.7429,


343.2538, 271.0155


0.1454


291.5828,  
405.5301, 326.0936


 0.0000, 0.9990,  
0.0000


 0.0000, 0.0000,  
0.0000


 42.2816, 74.1286,  
46.2622

 42.2816, 74.1286,  
46.2622


 42.2808, 74.1283,  
46.2582


 43.5538, 74.6853,  
50.8001

 45.4267, 75.5446,  
55.6909


 48.0668, 76.7919,  
60.9499


 51.5757, 78.4797,  
66.5882

 56.0393, 80.6520,  
72.6159

 61.5324, 83.3472,  
79.0424

 68.1223, 86.6000,  
85.8768

 75.8702, 90.4417,  
93.1274

 84.8329, 94.9015,  
100.8026

# Harmonies

## Analogous

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



51.0757, 74.1286, 22.9636



42.2816, 74.1286, 46.2622



40.3716, 74.1286, 93.1694

# Triad

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



42.2816, 74.1286, 46.2622



74.6817, 74.1286, 232.8378



103.5408, 74.1286, 33.4814

# Complementary

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



42.2816, 74.1286, 46.2622



43.2174, 22.0515, 12.3410

# 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.



112.6758, 74.1286, 69.4203



42.2816, 74.1286, 46.2622



94.2091, 74.1286, 195.2043

# Square

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



42.2816, 74.1286, 46.2622



57.0880, 74.1286, 217.3722



108.9887, 74.1286, 129.0508



85.7655, 74.1286, 18.2039



# Rectangle

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



42.2816, 74.1286, 46.2622



42.8896, 74.1286, 136.3253



108.9887, 74.1286, 129.0508



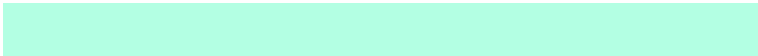
107.8552, 74.1286, 42.7509

# Sweetspot

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



42.2822, 74.1289, 46.2635



68.1136, 86.5957, 85.8682



40.3271, 73.8744, 12.1346



13.9551, 18.2266, 17.7519



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

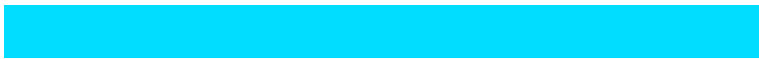
The Same Dimension uses a secret algorithm to generate beautiful new colors.



42.2822, 74.1289, 46.2635



42.2808, 74.1283, 46.2582



43.9079, 58.9353, 103.6692



18.2572, 20.3624, 21.6576



22.1669, 38.7634, 24.5620



2.2109, 3.7953, 2.6682



# Inverse Universe

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



43.2174, 22.0515, 12.3410



43.2162, 22.0505, 12.3363



41.8130, 22.4057, 2.1218



18.2832, 18.0966, 20.1085



22.6466, 11.5479, 6.7895

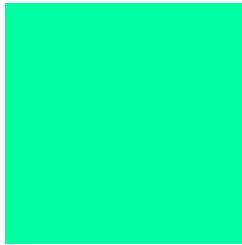


2.2553, 1.1445, 0.9260



# Previews

## White Background



This preview shows how the XYZ color 42.2816, 74.1286, 46.2622 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

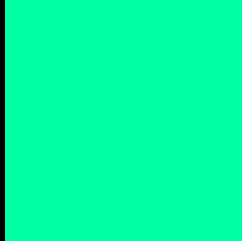
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.2816, 74.1286, 46.2622 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

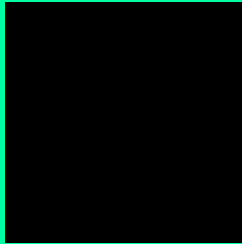
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 42.2816, 74.1286, 46.2622**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.2816, 74.1286, 46.2622.



This preview shows how white text looks on a background with the XYZ color 42.2816, 74.1286,



# Color Blindness Simulation

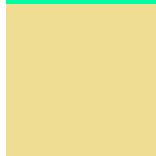
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



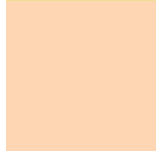
### Original Color

42.2816, 74.1286, 46.2622



### Protanopia

67.1369, 72.3763, 38.4485



### Deuteranopia

73.4233, 72.6078, 52.7927



## Tritanopia

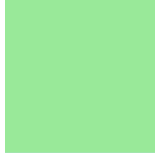
58.1224, 73.6988, 105.7697

# Trichromacy



## Original Color

42.2816, 74.1286, 46.2622



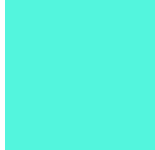
## Protanomaly

48.0256, 67.3500, 40.6056



## Deuteranomaly

50.4624, 66.7371, 49.7571



## Tritanomaly

49.2708, 72.3643, 79.7775

# Monochromacy



## Original Color

42.2816, 74.1286, 46.2622



## Achromatopsia

37.2190, 39.1572, 42.6422



## Achromatomaly

33.6006, 47.1875, 43.4136

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.2816, 74.1286, 46.2622 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, 162)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 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, 255, 162) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 162) }
```

## Border

The CSS property to change the border of an element to XYZ 42.2816, 74.1286, 46.2622 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, 162) }
```



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

```
.border{ border-color:rgb(0, 255, 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, 255, 162)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 162); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 162);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
162) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.2816, 74.1286, 46.2622 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, 162) }
```

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

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