

# Converting Colors

XYZ(28.0637, 67.9239, 47.7618)

Have a look what the booklet for  
XYZ(28.0637, 67.9239, 47.7618)  
contains.

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# Color

**XYZ(42.6429, 74.2732,  
48.1650)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFA6
RGB	0, 255, 166
RGB Percent	0%, 100%, 65%
CMY	0.9999, 0.0000, 0.3490
CMYK	1.00, 0.00, 0.35, 0.00
HSL	159°, 100%, 50%
HSV	159°, 100%, 100%
XYZ	42.6429, 74.2732, 48.1650
YIQ	168.6090, -123.4110, -81.7390

# Conversions

## Conversions Part 2

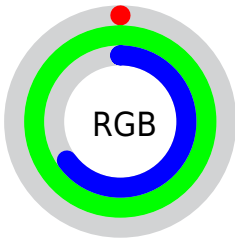
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 154, 255
Decimal	65446
CIELab	89.05, -70.04, 28.73
CIELCh	89, 75.702, 157.693
Yxy	74.2732, 0.2583, 0.4499
Android (android.graphics.Color)	4278255526 (0xFF00FFA6)
YUV	168.6090, -1.2862, -147.8701
Hunter-Lab	86.1819, -62.4963, 27.1916

# Details

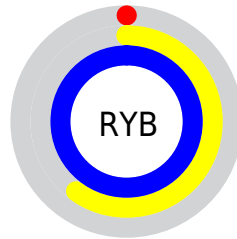
The XYZ color **42.6429, 74.2732, 48.1650** is a dark color, and the websafe version is hex **00FF99**. The color can be described as middle saturated spring green. A complement of this color would be **43.0444, 21.9822, 11.4304**, and the grayscale version is **37.5721, 39.5288, 43.0469**.

A 20% lighter version of the original color is **56.0150, 80.4388, 81.6812**, and **22.9469, 41.1248, 22.3512** is the 20% darker color. If you saturate the color by 10%, you get **42.6424, 74.2729, 48.1621**, and if you desaturate by 10%, it is **43.9023, 74.8247, 52.6363**.

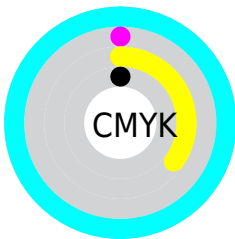
# Distribution



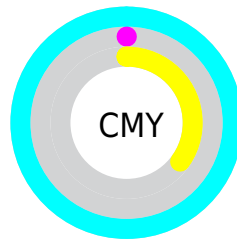
- Red (0%)
- Green (100%)
- Blue (65%)



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



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




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


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.6429, 74.2732, 48.1650 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 42.6429, 74.2732, 48.1650 by changing the saturation by 10% instead.





 42.6429, 74.2732,  
48.1650


 42.6429, 74.2732,  
48.1650


348.0876,  
475.4157, 395.9733


 29.7983, 55.0177,  
33.5967


 78.4308, 125.2830,  
88.8181


 19.8329, 39.4159,  
22.3091


 102.1048,  
157.8061, 115.7400


 12.3812, 27.0834,  
13.8837


 130.1194,  
195.5205, 147.6168

 7.0779, 17.6359,  
7.9020

 162.8398,  
238.8105, 184.8670

 3.5576, 10.6889,  
3.9454

 200.6315,  
288.0607, 227.9092

 1.4550, 5.8580,  
1.5954


243.8598,

 0.2949, 2.7590,


343.6554, 277.1620


0.2876


292.8900,  
405.9789, 333.0439


 0.0000, 1.0072,  
0.0000


 0.0000, 0.0000,  
0.0000


 42.6429, 74.2732,  
48.1650


 42.6429, 74.2732,  
48.1650

 42.6424, 74.2729,  
48.1621

 43.9023, 74.8247,  
52.6363

 45.7576, 75.6769,  
57.4350

 48.3750, 76.9152,  
62.5758

 51.8562, 78.5918,  
68.0688

■ 56.2867, 80.7508,  
73.9234

■ 61.7413, 83.4306,  
80.1481

■ 68.2870, 86.6657,  
86.7513

■ 75.9850, 90.4874,  
93.7407

■ 84.8919, 94.9249,  
101.1238

# Harmonies

## Analogous

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



51.0833, 74.2732, 24.2436



42.6429, 74.2732, 48.1650



40.9988, 74.2732, 95.2187

# Triad

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



42.6429, 74.2732, 48.1650



75.4410, 74.2732, 228.7290



102.4815, 74.2732, 33.3653

# Complementary

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



42.6429, 74.2732, 48.1650



43.0444, 21.9822, 11.4304

# 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.



111.8167, 74.2732, 68.0420



42.6429, 74.2732, 48.1650



94.5315, 74.2732, 190.5730

# Square

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



42.6429, 74.2732, 48.1650



57.9900, 74.2732, 215.6355



108.6791, 74.2732, 125.7889



84.9046, 74.2732, 18.6576



# Rectangle

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



42.6429, 74.2732, 48.1650



43.6556, 74.2732, 137.7419



108.6791, 74.2732, 125.7889



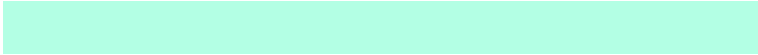
106.8152, 74.2732, 42.3069

# Sweetspot

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



42.6435, 74.2734, 48.1663



68.2801, 86.6622, 86.7447



39.9055, 73.6571, 12.1147



13.9948, 18.2425, 17.9611



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.



42.6435, 74.2734, 48.1663



42.6424, 74.2729, 48.1621



42.7997, 56.7190, 103.2998



18.2698, 20.3674, 21.7236



22.3549, 38.8385, 25.5518



2.2283, 3.8023, 2.7602



# Inverse Universe

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



43.0444, 21.9822, 11.4304



43.0434, 21.9814, 11.4267



41.9419, 22.6637, 2.1646



18.2711, 18.0918, 20.0450



22.5546, 11.5111, 6.3048

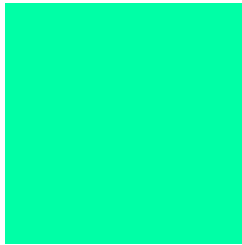


2.2454, 1.1405, 0.8736



# Previews

## White Background



This preview shows how the XYZ color 42.6429, 74.2732, 48.1650 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 42.6429, 74.2732, 48.1650 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

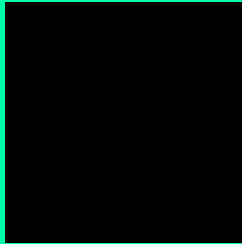
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 42.6429, 74.2732, 48.1650**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.6429, 74.2732, 48.1650.



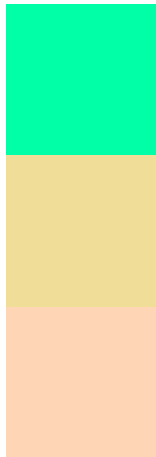
This preview shows how white text looks on a background with the XYZ color 42.6429, 74.2732,



# 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

42.6429, 74.2732, 48.1650

### Protanopia

67.4591, 72.5052, 40.1452

### Deuteranopia

73.6271, 72.6893, 53.8659



## Tritanopia

58.2766, 73.7783, 105.7769

# Trichromacy



## Original Color

42.6429, 74.2732, 48.1650



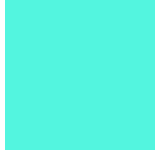
## Protanomaly

48.3616, 67.4845, 42.3752



## Deuteranomaly

50.7561, 66.8546, 51.3034



## Tritanomaly

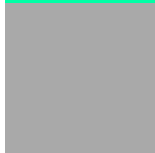
49.5390, 72.4715, 81.1895

# Monochromacy



## Original Color

42.6429, 74.2732, 48.1650



## Achromatopsia

37.7116, 39.6755, 43.2066



## Achromatomaly

33.9065, 47.3239, 44.3931

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.6429, 74.2732, 48.1650 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, 166)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 166)  
}
```

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, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 166) }
```

## Border

The CSS property to change the border of an element to XYZ 42.6429, 74.2732, 48.1650 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, 166) }
```



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

```
.border{ border-color:rgb(0, 255, 166) }
```

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, 166)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 166);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
166) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.6429, 74.2732, 48.1650 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, 166) }
```

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

```
.background{ background-color: rgb(0, 255,  
166) }
```

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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