

# Converting Colors

XYZ(42.6785, 75.0866, 12.2438)

Have a look what the booklet for  
XYZ(42.6785, 75.0866, 12.2438)  
contains.

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# Color

**XYZ(42.6994, 75.0974,  
12.2448)**

# Conversions

## Conversions Part 1

Format	Color
Hex	72FF00
RGB	114, 255, 0
RGB Percent	45%, 100%, 0%
CMY	0.5529, 0.0000, 0.9998
CMYK	0.55, 0.00, 1.00, 0.00
HSL	93°, 100%, 50%
HSV	93°, 100%, 100%
XYZ	42.6994, 75.0974, 12.2448
YIQ	183.7710, -2.1810, -109.1970

# Conversions

## Conversions Part 2

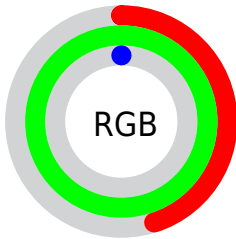
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 255, 141
Decimal	7536384
CIELab	89.44, -71.54, 85.25
CIELCh	89, 111.291, 130.000
Yxy	75.0974, 0.3284, 0.5775
Android (android.graphics.Color)	4285726464 (0xFF72FF00)
YUV	183.7710, -90.5991, -61.1892
Hunter-Lab	86.6588, -63.7005, 52.2835

# Details

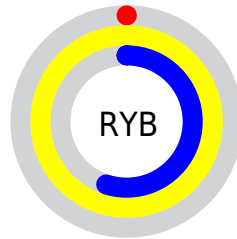
The XYZ color **42.6994, 75.0974, 12.2448** is a dark color, and the websafe version is hex **66FF00**. The color can be described as dark saturated chartreuse. A complement of this color would be **29.0420, 12.8873, 95.5645**, and the grayscale version is **45.9215, 48.3130, 52.6128**.

A 20% lighter version of the original color is **56.0959, 81.7753, 23.1836**, and **20.5313, 40.2238, 6.6819** is the 20% darker color. If you saturate the color by 10%, you get **42.6964, 75.0958, 12.2446**, and if you desaturate by 10%, it is **44.8587, 76.1896, 13.2924**.

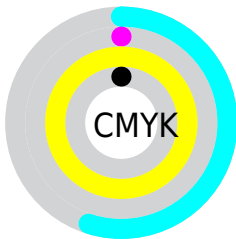
# Distribution



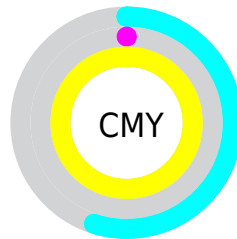
- Red (45%)
- Green (100%)
- Blue (0%)



- Red (0%)
- Yellow (100%)
- Blue (55%)



- Cyan (55%)
- Magenta (0%)
- Yellow (100%)
- Black (0%)




- Cyan (55%)
- Magenta (0%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.6994, 75.0974, 12.2448 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 42.6994, 75.0974, 12.2448 by changing the saturation by 10% instead.





 42.6994, 75.0974,  
12.2448


 42.6994, 75.0974,  
12.2448


348.3166,  
478.2523, 217.0544

 29.8428, 55.6927,  
6.7861


 78.5156, 126.4502,  
30.6112


 19.8668, 39.9566,  
3.2523


 102.2059,  
159.1671, 44.3560


 12.4060, 27.5047,  
1.2248


 130.2382,  
197.0902, 61.6998

 7.0949, 17.9526,  
0.0000

 162.9778,  
240.6039, 83.0613

 3.5684, 10.9160,  
0.0000

 200.7901,  
290.0925, 108.8590

 1.4610, 6.0104,  
0.0000

 244.0404,

 0.2991, 2.8514,

345.9406, 139.5113

0.0000

293.0941,  
408.5323, 175.4370

■ 0.0000, 1.0546,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 42.6994, 75.0974,  
12.2448

■ 42.6994, 75.0974,  
12.2448

■ 42.6964, 75.0958,  
12.2446

■ 44.8587, 76.1896,  
13.2924

■ 47.5488, 77.5282,  
15.5951

■ 50.8530, 79.1479,  
19.5333

■ 54.8263, 81.0718,  
25.3398

■ 59.5159, 83.3200,  
33.2095

■ 64.9638, 85.9105,  
43.3131

■ 71.2085, 88.8598,  
55.8033

■ 78.2851, 92.1829,  
70.8195

■ 86.2269, 95.8941,  
88.4901

# Harmonies

## Analogous

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



62.6540, 75.0974, 5.1205



42.6994, 75.0974, 12.2448



32.5725, 75.0974, 40.4097

# Triad

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



42.6994, 75.0974, 12.2448



54.9037, 75.0974, 319.6332



136.4718, 75.0974, 58.3648

# Complementary

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



42.6994, 75.0974, 12.2448



29.0420, 12.8873, 95.5645

# 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.



132.8599, 75.0974, 144.6356



42.6994, 75.0974, 12.2448



80.8760, 75.0974, 336.7420

# Square

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



42.6994, 75.0974, 12.2448



38.2732, 75.0974, 221.2661



110.6670, 75.0974, 259.1912



119.5526, 75.0974, 18.2413



# Rectangle

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



42.6994, 75.0974, 12.2448



30.7338, 75.0974, 81.7684



110.6670, 75.0974, 259.1912



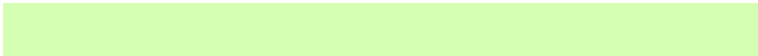
137.7027, 75.0974, 81.7683

# Sweetspot

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



42.6996, 75.0974, 12.2459



71.1978, 88.8547, 55.7813



50.6576, 40.0948, 5.0703



14.6545, 18.7429, 10.7484



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.



42.6996, 75.0974, 12.2459



42.6964, 75.0958, 12.2446



35.8318, 71.5488, 12.2954



18.5424, 20.5655, 19.1366



22.4756, 39.3247, 6.4058



2.3118, 3.8926, 0.6295



# Inverse Universe

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



29.0420, 12.8873, 95.5645



29.0385, 12.8848, 95.5643



57.3053, 27.6868, 86.5268



17.9636, 17.8730, 22.7530



15.3478, 6.8226, 49.9426

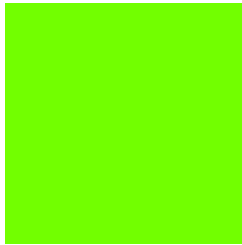


1.6202, 0.7291, 4.8686



# Previews

## White Background



This preview shows how the XYZ color 42.6994, 75.0974, 12.2448 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 42.6994, 75.0974, 12.2448 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 42.6994, 75.0974, 12.2448**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.6994, 75.0974, 12.2448.



This preview shows how white text looks on a background with the XYZ color 42.6994, 75.0974,



# 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

42.6994, 75.0974, 12.2448

### Protanopia

66.8005, 74.0068, 10.7640

### Deuteranopia

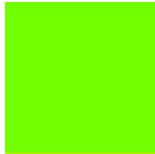
72.6637, 73.5301, 45.0133



## Tritanopia

61.8518, 74.7569, 105.7773

# Trichromacy



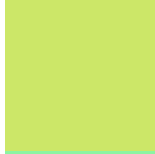
## Original Color

42.6994, 75.0974, 12.2448



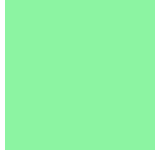
## Protanomaly

54.0655, 71.9732, 11.0427



## Deuteranomaly

55.9764, 70.9887, 23.8486



## Tritanomaly

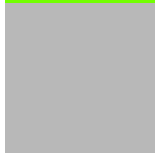
49.6875, 72.8855, 45.6319

# Monochromacy



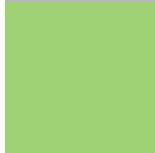
## Original Color

42.6994, 75.0974, 12.2448



## Achromatopsia

45.5594, 47.9320, 52.1980



## Achromatomaly

40.5556, 54.7485, 25.2596

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.6994, 75.0974, 12.2448 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(114, 255, 0)` looks like.

```
.text, #text, p{  
    color:rgb(114, 255, 0)  
}
```

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(114, 255, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 255, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 42.6994, 75.0974, 12.2448 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(114, 255, 0) }
```



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

```
.border{ border-color:rgb(114, 255, 0) }
```

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

Here you see how a box with a 4 pixel rgb(114, 255, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(114, 255, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(114, 255, 0);  
box-shadow:4px 4px 4px 4px rgb(114, 255,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.6994, 75.0974, 12.2448 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 255, 0) }
```

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

```
.background{ background-color: rgb(114,  
255, 0) }
```

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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