

# Converting Colors

XYZ(42.7058, 74.4846, 17.9878)

Have a look what the booklet for  
XYZ(42.7058, 74.4846, 17.9878)  
contains.

<b>XYZ(42.7316, 74.5140, 17.9248)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(42.7316, 74.5140,  
17.9248)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6CFE46
RGB	108, 254, 70
RGB Percent	42%, 100%, 27%
CMY	0.5765, 0.0039, 0.7255
CMYK	0.57, 0.00, 0.72, 0.00
HSL	108°, 99%, 64%
HSV	108°, 72%, 100%
XYZ	42.7316, 74.5140, 17.9248
YIQ	189.3700, -27.9520, -88.1760

# Conversions

## Conversions Part 2

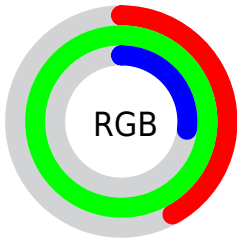
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">70, 254, 216</a>
Decimal	<a href="#">7142982</a>
CIELab	<a href="#">89.16, -70.26, 71.71</a>
CIELCh	<a href="#">89, 100.390, 134.417</a>
Yxy	<a href="#">74.5140, 0.3161, 0.5513</a>
Android (android.graphics.Color)	<a href="#">4285333062 (0xFF6CFE46)</a>
YUV	<a href="#">189.3700, -58.8494, -71.3615</a>
Hunter-Lab	<a href="#">86.3215, -62.7000, 48.1134</a>

# Details

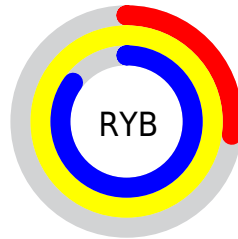
The XYZ color **42.7316, 74.5140, 17.9248** is a dark color, and the websafe version is hex **66FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **48.4033, 26.1381, 96.2641**, and the grayscale version is **48.9219, 51.4697, 56.0505**.

A 20% lighter version of the original color is **56.7357, 81.8756, 33.5822**, and **20.0492, 39.6393, 6.5944** is the 20% darker color. If you saturate the color by 10%, you get **39.9192, 73.1403, 14.4566**, and if you desaturate by 10%, it is **46.4529, 76.3216, 23.2070**.

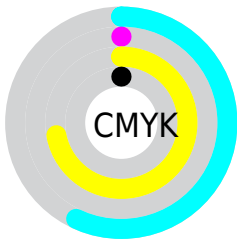
# Distribution



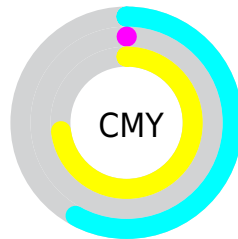
- Red (42%)
- Green (100%)
- Blue (27%)



- Red (27%)
- Yellow (100%)
- Blue (85%)



- Cyan (57%)
- Magenta (0%)
- Yellow (72%)
- Black (0%)




- Cyan (58%)
- Magenta (0%)
- Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.7316, 74.5140, 17.9248 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 42.7316, 74.5140, 17.9248 by changing the saturation by 10% instead.





 42.7316, 74.5140,  
17.9248


 42.7316, 74.5140,  
17.9248


348.4471,  
476.2455, 252.6687

 29.8682, 55.2148,  
10.7271


 78.5639, 125.6242,  
40.7214


 19.8861, 39.5738,  
5.7718


 102.2635,  
158.2040, 57.1573


 12.4201, 27.2064,  
2.6403


 130.3059,  
195.9794, 77.5098

 7.1047, 17.7283,  
0.9131

 163.0565,  
239.3349, 102.1973

 3.5746, 10.7551,  
0.0000

 200.8805,  
288.6549, 131.6384

 1.4644, 5.9024,  
0.0000

244.1434,

 0.3014, 2.7858,

344.3237, 166.2517

0.0000

293.2104,  
406.7258, 206.4556

■ 0.0000, 1.0210,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 42.7316, 74.5140,  
17.9248

■ 42.7316, 74.5140,  
17.9248

■ 39.9192, 73.1403,  
14.4566

■ 46.4529, 76.3216,  
23.2070


■ 37.9249, 72.1522,  
12.5533


■ 51.1518, 78.5874,  
30.5004


■ 36.8827, 71.6288,  
11.8818


■ 56.8959, 81.3447,  
39.9816

■ 63.7449, 84.6209,  
51.8068

 71.7542, 88.4413,  
66.1180

 80.9752, 92.8298,  
83.0457

 91.4560, 97.8085,  
102.7114

 94.7334, 99.3668,  
108.7945

# Harmonies

## Analogous

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



59.7421, 74.5140, 8.0927



42.7316, 74.5140, 17.9248



34.4795, 74.5140, 50.0481

# Triad

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



42.7316, 74.5140, 17.9248



58.9195, 74.5140, 292.4775



126.8709, 74.5140, 51.9938

# Complementary

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



42.7316, 74.5140, 17.9248



48.4033, 26.1381, 96.2641

# 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.



126.5054, 74.5140, 122.9875



42.7316, 74.5140, 17.9248



83.1965, 74.5140, 294.1507

# Square

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



42.7316, 74.5140, 17.9248



42.2496, 74.5140, 216.7169



109.1240, 74.5140, 220.4744



110.0305, 74.5140, 18.6434



# Rectangle

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



42.7316, 74.5140, 17.9248



33.5048, 74.5140, 91.9595



109.1240, 74.5140, 220.4744



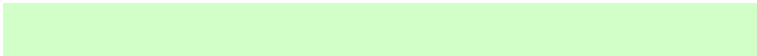
128.8606, 74.5140, 71.1916

# Sweetspot

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



42.7334, 74.5171, 17.9265



72.7735, 89.4116, 67.3946



66.0623, 69.6774, 15.7627



15.0789, 18.9006, 13.5257



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.



42.7334, 74.5171, 17.9265



39.2576, 73.2911, 13.5274



41.4912, 73.5977, 30.4767



18.1219, 20.3487, 19.1169



19.5407, 37.8117, 6.2685



1.9877, 3.7255, 0.6143



# Inverse Universe

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



48.4033, 26.1381, 96.2641



44.9468, 21.8993, 96.4658



53.7110, 29.7112, 58.7017



18.4038, 18.0999, 22.7736



22.3355, 10.4249, 50.2696

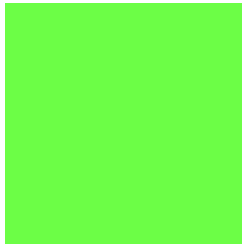


2.2628, 1.0604, 4.8987



# Previews

## White Background



This preview shows how the XYZ color 42.7316, 74.5140, 17.9248 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

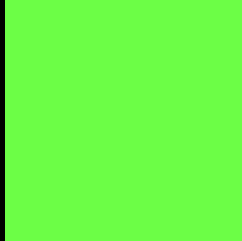
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.7316, 74.5140, 17.9248 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 42.7316, 74.5140, 17.9248**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.7316, 74.5140, 17.9248.



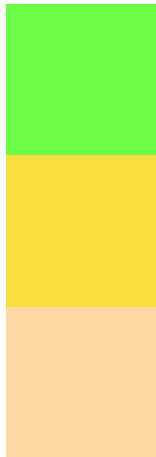
This preview shows how white text looks on a background with the XYZ color 42.7316, 74.5140,



# 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

42.7316, 74.5140, 17.9248

### Protanopia

66.3241, 73.2629, 15.2029

### Deuteranopia

72.3175, 72.9804, 44.4575



## Tritanopia

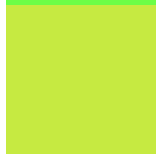
60.7286, 74.1779, 105.7248

# Trichromacy



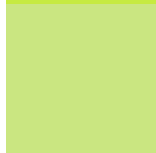
## Original Color

42.7316, 74.5140, 17.9248



## Protanomaly

53.6657, 71.2331, 15.9219



## Deuteranomaly

56.6164, 70.7352, 31.4381



## Tritanomaly

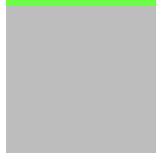
50.9592, 72.8004, 58.9430

# Monochromacy



## Original Color

42.7316, 74.5140, 17.9248



## Achromatopsia

48.3692, 50.8881, 55.4172



## Achromatomaly

43.4798, 57.1374, 35.9311

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.7316, 74.5140, 17.9248 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(108, 254, 70)` looks like.

```
.text, #text, p{  
    color:rgb(108, 254, 70)  
}
```

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(108, 254, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(108, 254, 70) }
```

## Border

The CSS property to change the border of an element to XYZ 42.7316, 74.5140, 17.9248 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(108, 254, 70) }
```



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

```
.border{ border-color:rgb(108, 254, 70) }
```

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

Here you see how a box with a 4 pixel `rgb(108, 254, 70)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(108, 254, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(108, 254, 70);  
box-shadow:4px 4px 4px 4px rgb(108, 254,  
70) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.7316, 74.5140, 17.9248 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(108, 254, 70) }
```

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

```
.background{ background-color: rgb(108,  
254, 70) }
```

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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