

# Converting Colors

XYZ(47.2492, 77.0389, 30.7128)

Have a look what the booklet for  
XYZ(47.2492, 77.0389, 30.7128)  
contains.

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# Color

**XYZ(47.2989, 77.0627,  
30.7940)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7AFF7A
RGB	122, 255, 122
RGB Percent	48%, 100%, 48%
CMY	0.5216, 0.0000, 0.5216
CMYK	0.52, 0.00, 0.52, 0.00
HSL	120°, 100%, 74%
HSV	120°, 52%, 100%
XYZ	47.2989, 77.0627, 30.7940
YIQ	200.0710, -36.5750, -69.5590

# Conversions

## Conversions Part 2

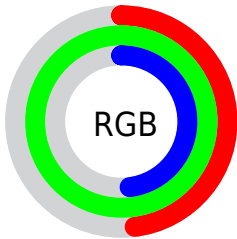
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	122, 255, 255
Decimal	8060794
CIELab	90.35, -62.18, 52.08
CIElCh	90, 81.113, 140.051
Yxy	77.0627, 0.3048, 0.4967
Android (android.graphics.Color)	4286250874 (0xFF7AFF7A)
YUV	200.0710, -38.4890, -68.4683
Hunter-Lab	87.7854, -57.4483, 40.6516

# Details

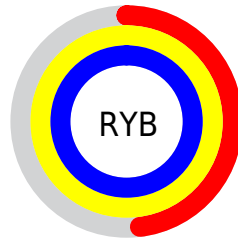
The XYZ color **47.2989, 77.0627, 30.7940** is a light color, and the websafe version is hex **66FF66**. A complement of this color would be **66.2493, 42.3992, 99.2977**, and the grayscale version is **55.1892, 58.0634, 63.2310**.

A 20% lighter version of the original color is **63.2243, 84.7616, 54.6233**, and **22.6160, 41.1744, 12.3857** is the 20% darker color. If you saturate the color by 10%, you get **42.7714, 74.8879, 23.3889**, and if you desaturate by 10%, it is **53.1887, 79.8919, 40.4285**.

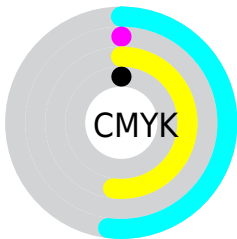
# Distribution



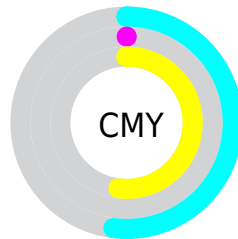
- Red (48%)
- Green (100%)
- Blue (48%)



- Red (48%)
- Yellow (100%)
- Blue (100%)



- Cyan (52%)
- Magenta (0%)
- Yellow (52%)
- Black (0%)




- Cyan (52%)
- Magenta (0%)
- Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.2989, 77.0627, 30.7940 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 47.2989, 77.0627, 30.7940 by changing the saturation by 10% instead.





 47.2989, 77.0627,  
30.7940


 47.2989, 77.0627,  
30.7940


366.6354,  
484.9778, 319.9099

 33.4809, 57.3043,  
20.1849


 85.3756, 129.2280,  
61.9914

 22.6561, 41.2496,  
12.3441


 110.3651,  
162.4037, 83.4167

 14.4591, 28.5142,  
6.8531


 139.8092,  
200.8206, 109.2845

 8.5245, 18.7136,  
3.2933

174.0732,  
244.8632, 140.0134

 4.4870, 11.4635,  
1.2463

213.5224,  
294.9158, 176.0218

 1.9811, 6.3795,  
0.0172

258.5223,

 0.6233, 3.0772,

351.3629, 217.7283

0.0000

309.4382,  
414.5887, 265.5515

0.0000, 1.1722,  
0.0000

0.0000, 0.0388,  
0.0000

47.2989, 77.0627,  
30.7940

47.2989, 77.0627,  
30.7940

42.7714, 74.8879,  
23.3889

53.1887, 79.8919,  
40.4285

39.4961, 73.3146,  
18.0315


60.5369, 83.4216,  
52.4478


37.3478, 72.2827,  
14.5174

69.4321, 87.6944,  
66.9975

36.1748, 71.7193,  
12.5987

79.9556, 92.7494,  
84.2105

 35.7600, 71.5200,  
11.9201

 92.1829, 98.6228,  
104.2105

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



60.7071, 77.0627, 16.7511



47.2989, 77.0627, 30.7940



41.2357, 77.0627, 66.1029

# Triad

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



47.2989, 77.0627, 30.7940



66.7317, 77.0627, 248.3173



116.1782, 77.0627, 51.2269

# Complementary

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



47.2989, 77.0627, 30.7940



66.2493, 42.3992, 99.2977

# Split Complementary

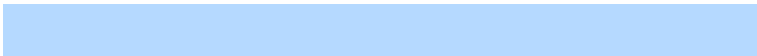
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



118.6051, 77.0627, 104.6540



47.2989, 77.0627, 30.7940



87.4020, 77.0627, 238.0021

# Square

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



47.2989, 77.0627, 30.7940



51.0090, 77.0627, 201.4969



107.2794, 77.0627, 177.6407



101.1557, 77.0627, 24.2192



# Rectangle

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



47.2989, 77.0627, 30.7940



41.2439, 77.0627, 104.8821



107.2794, 77.0627, 177.6407



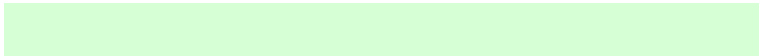
118.5884, 77.0627, 65.9353

# Sweetspot

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



47.2993, 77.0629, 30.7952



75.7132, 90.7116, 77.2714



80.5129, 94.1852, 32.3488



15.7413, 19.1929, 15.7795



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.



47.2993, 77.0629, 30.7952



42.4483, 74.7327, 22.8605



52.9174, 79.3101, 60.3797



17.7717, 20.1682, 19.1006



18.6854, 37.3707, 6.2286



1.8193, 3.6387, 0.6065



# Inverse Universe

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



66.2493, 42.3992, 99.2977



63.3234, 36.5476, 98.3220



57.3308, 38.8318, 52.3340



18.7927, 18.3004, 22.7917



30.9799, 14.8813, 50.6720

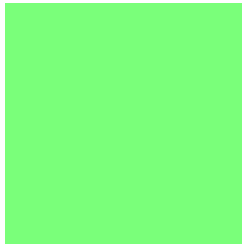


3.0164, 1.4489, 4.9338



# Previews

## White Background



This preview shows how the XYZ color 47.2989, 77.0627, 30.7940 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

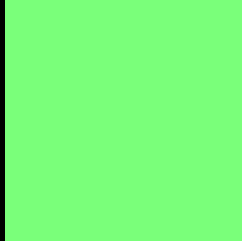
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.2989, 77.0627, 30.7940 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

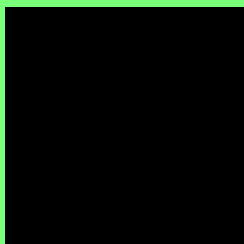
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

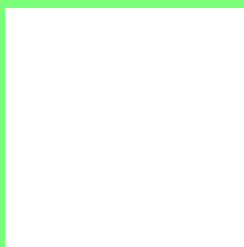
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 47.2989, 77.0627, 30.7940**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.2989, 77.0627, 30.7940.



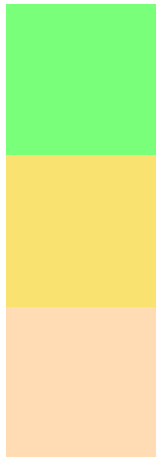
This preview shows how white text looks on a background with the XYZ color 47.2989, 77.0627,



# 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

47.2989, 77.0627, 30.7940

### Protanopia

69.1879, 75.7023, 26.2946

### Deuteranopia

74.9699, 75.7011, 53.3083



## Tritanopia

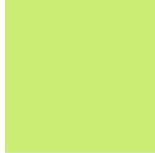
64.1416, 76.3684, 105.9677

# Trichromacy



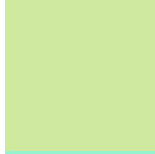
## Original Color

47.2989, 77.0627, 30.7940



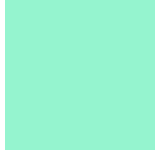
## Protanomaly

58.0652, 74.5258, 27.8476



## Deuteranomaly

61.0426, 74.0118, 43.4162



## Tritanomaly

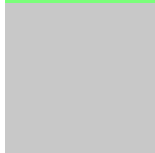
56.0076, 75.5959, 70.6710

# Monochromacy



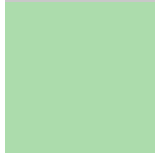
## Original Color

47.2989, 77.0627, 30.7940



## Achromatopsia

54.8990, 57.7580, 62.8985



## Achromatomaly

50.0529, 62.9356, 48.5394

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.2989, 77.0627, 30.7940 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(122, 255, 122)` looks like.

```
.text, #text, p{  
    color:rgb(122, 255, 122)  
}
```

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(122, 255, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 255, 122) }
```

## Border

The CSS property to change the border of an element to XYZ 47.2989, 77.0627, 30.7940 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(122, 255, 122) }
```



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

```
.border{ border-color:rgb(122, 255, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(122, 255, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(122, 255, 122); -webkit-box-shadow:4px 4px 4px 4px rgb(122, 255, 122); box-shadow:4px 4px 4px 4px rgb(122, 255, 122) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.2989, 77.0627, 30.7940 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(122, 255, 122) }
```

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

```
.background{ background-color: rgb(122,  
255, 122) }
```

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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