

# Converting Colors

XYZ(47.1816, 77.0175, 30.1007)

Have a look what the booklet for  
XYZ(47.1816, 77.0175, 30.1007)  
contains.

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# Color

**XYZ(47.1762, 77.0136,  
30.1480)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7AFF78
RGB	122, 255, 120
RGB Percent	48%, 100%, 47%
CMY	0.5216, 0.0000, 0.5294
CMYK	0.52, 0.00, 0.53, 0.00
HSL	119°, 100%, 74%
HSV	119°, 53%, 100%
XYZ	47.1762, 77.0136, 30.1480
YIQ	199.8430, -35.9330, -70.1810

# Conversions

## Conversions Part 2

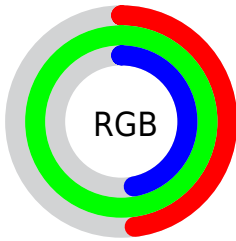
Format	Color
<a href="#">RYB</a>	<a href="#">120, 255, 253</a>
Decimal	<a href="#">8060792</a>
CIELab	<a href="#">90.33, -62.43, 52.97</a>
CIELCh	<a href="#">90, 81.872, 139.687</a>
Yxy	<a href="#">77.0136, 0.3057, 0.4990</a>
Android (android.graphics.Color)	<a href="#">4286250872 (0xFF7AFF78)</a>
YUV	<a href="#">199.8430, -39.3626, -68.2683</a>
Hunter-Lab	<a href="#">87.7574, -57.6183, 41.0618</a>

# Details

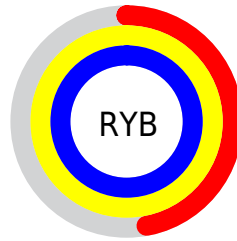
The XYZ color **47.1762, 77.0136, 30.1480** is a light color, and the websafe version is hex **66FF66**. A complement of this color would be **65.2760, 41.5371, 99.1848**, and the grayscale version is **55.0535, 57.9205, 63.0755**.

A 20% lighter version of the original color is **63.0263, 84.6824, 53.5809**, and **22.5252, 41.1381, 11.9075** is the 20% darker color. If you saturate the color by 10%, you get **42.7199, 74.8719, 22.9088**, and if you desaturate by 10%, it is **52.9646, 79.7944, 39.6026**.

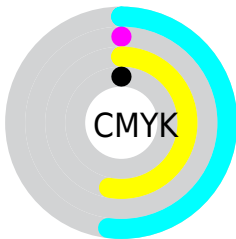
# Distribution



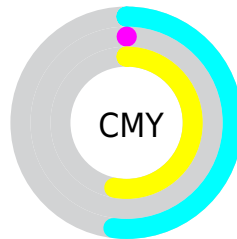
- Red (48%)
- Green (100%)
- Blue (47%)



- Red (47%)
- Yellow (100%)
- Blue (99%)



- Cyan (52%)
- Magenta (0%)
- Yellow (53%)
- Black (0%)




- Cyan (52%)
- Magenta (0%)
- Yellow (53%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.1762, 77.0136, 30.1480 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 47.1762, 77.0136, 30.1480 by changing the saturation by 10% instead.





 47.1762, 77.0136,  
30.1480


 47.1762, 77.0136,  
30.1480


366.1546,  
484.8104, 316.8225


 33.3835, 57.2640,  
19.6979


 85.1937, 129.1587,  
60.9599

 22.5810, 41.2173,  
11.9938


 110.1492,  
162.3230, 82.1589

 14.4034, 28.4889,  
6.6170


 139.5564,  
200.7277, 107.7779

 8.4854, 18.6945,  
3.1489

173.7806,  
244.7571, 138.2355

 4.4615, 11.4498,  
1.1712

213.1872,  
294.7957, 173.9502

 1.9664, 6.3702,  
0.0000


258.1414,


 0.6150, 3.0715,


351.2279, 215.3405


0.0000


309.0088,  
414.4380, 262.8251


 0.0000, 1.1692,  
0.0000


 0.0000, 0.0363,  
0.0000


 47.1762, 77.0136,  
30.1480


 47.1762, 77.0136,  
30.1480


 42.7199, 74.8719,  
22.9088


 52.9646, 79.7944,  
39.6026


 39.4886, 73.3181,  
17.7014


 60.1785, 83.2590,  
51.4289

 37.3608, 72.2938,  
14.3193

 68.9040, 87.4487,  
65.7734

 36.1894, 71.7287,  
12.5101

 79.2205, 92.4015,  
82.7699

 35.8072, 71.5443,  
11.9222

 91.2013, 98.1527,  
102.5424

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.



60.7633, 77.0136, 16.3194



47.1762, 77.0136, 30.1480



40.9901, 77.0136, 65.3063

# Triad

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



47.1762, 77.0136, 30.1480



66.3982, 77.0136, 250.0659



116.6955, 77.0136, 51.4160

# Complementary

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



47.1762, 77.0136, 30.1480



65.2760, 41.5371, 99.1848

# Split Complementary

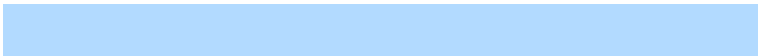
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



118.9743, 77.0136, 105.6196



47.1762, 77.0136, 30.1480



87.2255, 77.0136, 240.3500

# Square

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



47.1762, 77.0136, 30.1480



50.6397, 77.0136, 202.0060



107.3711, 77.0136, 179.5638



101.6249, 77.0136, 24.0491



# Rectangle

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



47.1762, 77.0136, 30.1480



40.9395, 77.0136, 104.2143



107.3711, 77.0136, 179.5638



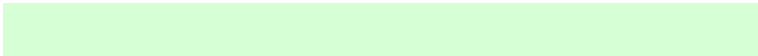
119.0774, 77.0136, 66.3361

# Sweetspot

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



47.1766, 77.0138, 30.1492



75.8898, 90.8026, 77.2792



79.6768, 92.7090, 31.4657



15.7826, 19.2142, 15.7813



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.



47.1766, 77.0138, 30.1492



42.3211, 74.6802, 22.2636



52.2899, 79.0268, 58.5363



17.7964, 20.1810, 19.1017



18.7208, 37.3890, 6.2301



1.8311, 3.6447, 0.6070



# Inverse Universe

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



65.2760, 41.5371, 99.1848



62.2172, 35.6447, 98.2086



57.2241, 38.4007, 52.9692



18.7646, 18.2859, 22.7905



30.2744, 14.5175, 50.6411

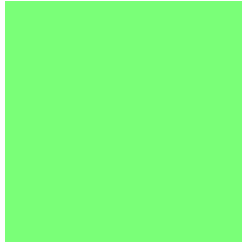


2.9559, 1.4177, 4.9311



# Previews

## White Background



This preview shows how the XYZ color 47.1762, 77.0136, 30.1480 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

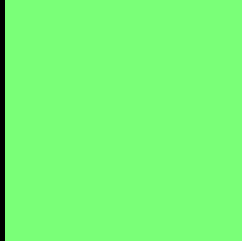
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.1762, 77.0136, 30.1480 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

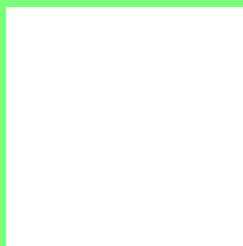
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 47.1762, 77.0136, 30.1480**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.1762, 77.0136, 30.1480.



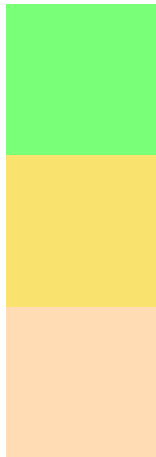
This preview shows how white text looks on a background with the XYZ color 47.1762, 77.0136,

30.1480.

# 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

47.1762, 77.0136, 30.1480

### Protanopia

69.4352, 75.8425, 25.7313

### Deuteranopia

74.9699, 75.7011, 53.3083



## Tritanopia

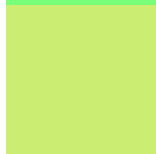
64.1416, 76.3684, 105.9677

# Trichromacy



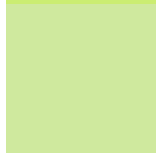
## Original Color

47.1762, 77.0136, 30.1480



## Protanomaly

57.9501, 74.4798, 27.2413



## Deuteranomaly

61.0426, 74.0118, 43.4162



## Tritanomaly

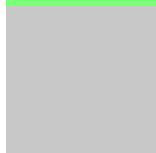
55.8857, 75.5472, 70.0291

# Monochromacy



## Original Color

47.1762, 77.0136, 30.1480



## Achromatopsia

54.8990, 57.7580, 62.8985



## Achromatomaly

49.9571, 62.8973, 48.0355

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.1762, 77.0136, 30.1480 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, 120)` looks like.

```
.text, #text, p{  
    color:rgb(122, 255, 120)  
}
```

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, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 255, 120) }
```

## Border

The CSS property to change the border of an element to XYZ 47.1762, 77.0136, 30.1480 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, 120) }
```



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

```
.border{ border-color:rgb(122, 255, 120) }
```

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, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(122, 255, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(122, 255, 120);  
box-shadow:4px 4px 4px 4px rgb(122, 255,  
120) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.1762, 77.0136, 30.1480 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, 120) }
```

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

```
.background{ background-color: rgb(122,  
255, 120) }
```

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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