

# Converting Colors

XYZ(59.1272, 100.0000,  
36.1187)

Have a look what the booklet for  
XYZ(59.1272, 100.0000, 36.1187)  
contains.

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# Color

**XYZ(47.7591, 77.2633,  
32.4748)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7BFF7F
RGB	123, 255, 127
RGB Percent	48%, 100%, 50%
CMY	0.5176, 0.0000, 0.5019
CMYK	0.52, 0.00, 0.50, 0.00
HSL	122°, 100%, 74%
HSV	122°, 52%, 100%
XYZ	47.7591, 77.2633, 32.4748
YIQ	200.9400, -37.5840, -67.7920

# Conversions

## Conversions Part 2

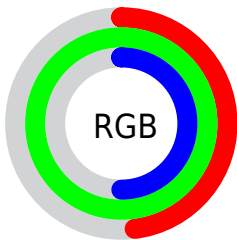
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">123, 251, 255</a>
Decimal	<a href="#">8126335</a>
<a href="#">CIELab</a>	<a href="#">90.44, -61.30, 49.90</a>
<a href="#">CIElCh</a>	<a href="#">90, 79.039, 140.856</a>
<a href="#">Yxy</a>	<a href="#">77.2633, 0.3032, 0.4906</a>
<a href="#">Android (android.graphics.Color)</a>	<a href="#">4286316415 (0xFF7BFF7F)</a>
<a href="#">YUV</a>	<a href="#">200.9400, -36.4524, -68.3534</a>
<a href="#">Hunter-Lab</a>	<a href="#">87.8995, -56.8385, 39.6248</a>

# Details

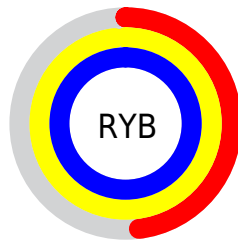
The XYZ color **47.7591, 77.2633, 32.4748** is a light color, and the websafe version is hex **66FF66**. A complement of this color would be **65.7351, 42.3908, 95.9818**, and the grayscale version is **55.7155, 58.6170, 63.8339**.

A 20% lighter version of the original color is **63.7319, 84.9647, 57.2968**, and **22.8896, 41.2968, 13.2432** is the 20% darker color. If you saturate the color by 10%, you get **43.1553, 75.0538, 24.8548**, and if you desaturate by 10%, it is **53.7089, 80.1208, 42.2241**.

# Distribution



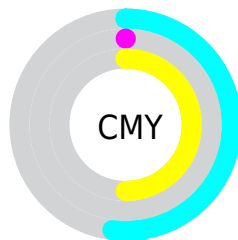
- Red (48%)
- Green (100%)
- Blue (50%)



- Red (48%)
- Yellow (98%)
- Blue (100%)



- Cyan (52%)
- Magenta (0%)
- Yellow (50%)
- Black (0%)




- Cyan (52%)
- Magenta (0%)
- Yellow (50%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.7591, 77.2633, 32.4748 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 47.7591, 77.2633, 32.4748 by changing the saturation by 10% instead.





 47.7591, 77.2633,  
32.4748


 47.7591, 77.2633,  
32.4748


368.4350,  
485.6613, 327.8356


 33.8466, 57.4690,  
21.4566


 86.0575, 129.5111,  
64.6612

 22.9381, 41.3819,  
13.2637


 111.1741,  
162.7334, 86.6665

 14.6683, 28.6176,  
7.4775


 140.7561,  
201.2004, 113.1713

 8.6717, 18.7917,  
3.6795

175.1689,  
245.2967, 144.5940

 4.5831, 11.5199,  
1.4512

214.7779,  
295.4065, 181.3533

 2.0370, 6.4177,  
0.1812


259.9483,


 0.6546, 3.1007,


351.9143, 223.8676

0.0000


311.0455,  
415.2044, 272.5555


 0.0000, 1.1845,  
0.0000


 0.0000, 0.0490,  
0.0000


 47.7591, 77.2633,  
32.4748


 47.7591, 77.2633,  
32.4748


 43.1553, 75.0538,  
24.8548


 53.7089, 80.1208,  
42.2241


 39.7916, 73.4414,  
19.2018


 61.0974, 83.6714,  
54.2417


 37.5479, 72.3680,  
15.3363

 70.0104, 87.9564,  
68.6589

 36.2800, 71.7637,  
13.0443

 80.5266, 93.0137,  
85.5961

 35.8024, 71.5369,  
12.1431

 92.7193, 98.8787,  
105.1656

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.



60.7363, 77.2633, 17.9486



47.7591, 77.2633, 32.4748



41.9774, 77.2633, 68.0081

# Triad

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



47.7591, 77.2633, 32.4748



67.5685, 77.2633, 243.5382



114.9188, 77.2633, 51.0595

# Complementary

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



47.7591, 77.2633, 32.4748



65.7351, 42.3908, 95.9818

# 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.



117.6417, 77.2633, 102.6097



47.7591, 77.2633, 32.4748



87.7941, 77.2633, 232.0634

# Square

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



47.7591, 77.2633, 32.4748



51.9887, 77.2633, 199.7186



106.9792, 77.2633, 173.0889



100.0953, 77.2633, 24.8497



# Rectangle

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



47.7591, 77.2633, 32.4748



42.1132, 77.2633, 106.3033



106.9792, 77.2633, 173.0889



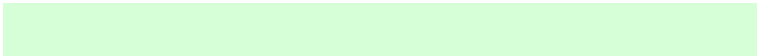
117.3724, 77.2633, 65.2709

# Sweetspot

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



47.7594, 77.2634, 32.4760



75.8720, 90.7751, 78.1075



79.7704, 93.7952, 32.6389



15.7784, 19.2077, 15.9751



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.



47.7594, 77.2634, 32.4760



43.0623, 75.0092, 24.6997



53.3545, 79.5014, 61.9390



17.7939, 20.1771, 19.2176



18.7171, 37.3835, 6.3958



1.8299, 3.6429, 0.6622



# Inverse Universe

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



65.7351, 42.3908, 95.9818



62.7930, 36.7059, 94.3868



57.2713, 39.0053, 51.4119



18.7675, 18.2903, 22.6587



30.3533, 14.6306, 47.3726

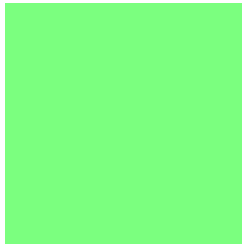


2.9626, 1.4274, 4.6505



# Previews

## White Background



This preview shows how the XYZ color 47.7591, 77.2633, 32.4748 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

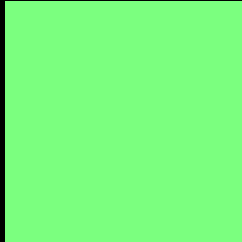
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.7591, 77.2633, 32.4748 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 47.7591, 77.2633, 32.4748**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.7591, 77.2633, 32.4748.



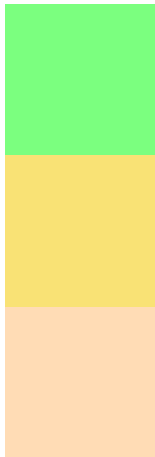
This preview shows how white text looks on a background with the XYZ color 47.7591, 77.2633, 32.4748.

32.4748.

# 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

47.7591, 77.2633, 32.4748

### Protanopia

69.4742, 75.8168, 27.8020

### Deuteranopia

75.1737, 75.7826, 54.3815



## Tritanopia

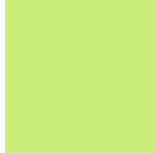
64.3504, 76.4761, 105.9775

# Trichromacy



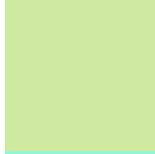
## Original Color

47.7591, 77.2633, 32.4748



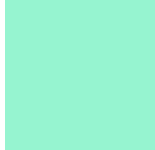
## Protanomaly

58.3640, 74.6454, 29.4210



## Deuteranomaly

61.3041, 74.1164, 44.7930



## Tritanomaly

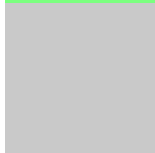
56.3135, 75.7395, 71.3257

# Monochromacy



## Original Color

47.7591, 77.2633, 32.4748



## Achromatopsia

55.5167, 58.4078, 63.6061



## Achromatomaly

50.7300, 63.6531, 49.6569

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.7591, 77.2633, 32.4748 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(123, 255, 127)` looks like.

```
.text, #text, p{  
    color:rgb(123, 255, 127)  
}
```

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(123, 255, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 255, 127) }
```

## Border

The CSS property to change the border of an element to XYZ 47.7591, 77.2633, 32.4748 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(123, 255, 127) }
```



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

```
.border{ border-color:rgb(123, 255, 127) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 255, 127)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 255, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 255, 127);  
box-shadow:4px 4px 4px 4px rgb(123, 255,  
127) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.7591, 77.2633, 32.4748 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 255, 127) }
```

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

```
.background{ background-color: rgb(123,  
255, 127) }
```

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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