

# Converting Colors

XYZ(45.7771, 76.3034, 21.7440)

Have a look what the booklet for  
XYZ(45.7771, 76.3034, 21.7440)  
contains.

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# Color

**XYZ(45.8754, 76.5264,  
21.8044)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7CFF59
RGB	124, 255, 89
RGB Percent	49%, 100%, 35%
CMY	0.5137, 0.0000, 0.6510
CMYK	0.51, 0.00, 0.65, 0.00
HSL	107°, 100%, 67%
HSV	107°, 65%, 100%
XYZ	45.8754, 76.5264, 21.8044
YIQ	196.9070, -24.7900, -79.3980

# Conversions

## Conversions Part 2

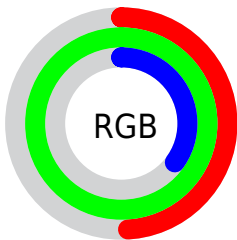
<b>Format</b>	<b>Color</b>
<b>RYB</b>	89, 255, 220
Decimal	8191833
CIELab	90.10, -65.13, 65.93
CIElCh	90, 92.674, 134.653
Yxy	76.5264, 0.3181, 0.5307
Android (android.graphics.Color)	4286381913 (0xFF7CFF59)
YUV	196.9070, -53.1982, -63.9394
Hunter-Lab	87.4794, -59.4810, 46.4574

# Details

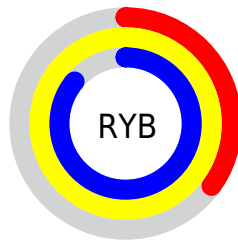
The XYZ color **45.8754, 76.5264, 21.8044** is a light color, and the websafe version is hex **66FF66**. The color can be described as light muted chartreuse. A complement of this color would be **51.1395, 29.5821, 97.6223**, and the grayscale version is **53.3366, 56.1143, 61.1085**.

A 20% lighter version of the original color is **60.8784, 83.8786, 39.7696**, and **21.7726, 40.8434, 7.6557** is the 20% darker color. If you saturate the color by 10%, you get **42.3660, 74.8202, 16.9859**, and if you desaturate by 10%, it is **50.3495, 78.6870, 28.6052**.

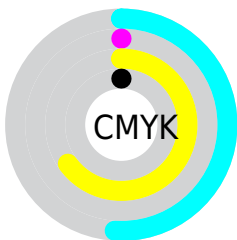
# Distribution



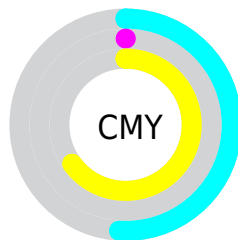
- Red (49%)
- Green (100%)
- Blue (35%)



- Red (35%)
- Yellow (100%)
- Blue (86%)



- Cyan (51%)
- Magenta (0%)
- Yellow (65%)
- Black (0%)




- Cyan (51%)
- Magenta (0%)
- Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.8754, 76.5264, 21.8044 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 45.8754, 76.5264, 21.8044 by changing the saturation by 10% instead.





 45.8754, 76.5264,  
21.8044

 45.8754, 76.5264,  
21.8044


361.0318,  
483.1478, 274.4432

 32.3517, 56.8643,  
13.5163


 83.2615, 128.4707,  
47.3205


 21.7871, 40.8963,  
7.6501


 107.8546,  
161.5217, 65.3857

 13.8163, 28.2380,  
3.7874


 136.8683,  
199.8044, 87.5469

 8.0739, 18.5052,  
1.5094

 170.6678,  
243.7032, 114.2227

 4.1944, 11.3133,  
0.2249

209.6186,  
293.6026, 145.8317

 1.8127, 6.2780,  
0.0000

254.0859,

 0.5253, 3.0148,

349.8869, 182.7925

0.0000

304.4352,  
412.9405, 225.5234

0.0000, 1.1395,  
0.0000

0.0000, 0.0114,  
0.0000

45.8754, 76.5264,  
21.8044

45.8754, 76.5264,  
21.8044

42.3660, 74.8202,  
16.9859

50.3495, 78.6870,  
28.6052

39.7440, 73.5334,  
13.9328

55.8552, 81.3326,  
37.5679

37.9197, 72.6254,  
12.3838

62.4542, 84.4915,  
48.8558

37.2684, 72.2976,  
11.9906

70.2028, 88.1895,  
62.6155

■ 79.1534, 92.4507,  
78.9818

■ 89.3551, 97.2978,  
98.0795

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.



62.1142, 76.5264, 11.0456



45.8754, 76.5264, 21.8044



37.8854, 76.5264, 54.1018

# Triad

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



45.8754, 76.5264, 21.8044



61.6499, 76.5264, 274.8161



124.4496, 76.5264, 55.2198

# Complementary

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



45.8754, 76.5264, 21.8044



51.1395, 29.5821, 97.6223

# 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.



124.2515, 76.5264, 121.5339



45.8754, 76.5264, 21.8044



84.5047, 76.5264, 275.6963

# Square

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



45.8754, 76.5264, 21.8044



45.5976, 76.5264, 207.7728



108.4482, 76.5264, 209.7727



108.9430, 76.5264, 22.2510



# Rectangle

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



45.8754, 76.5264, 21.8044



36.9666, 76.5264, 94.0252



108.4482, 76.5264, 209.7727



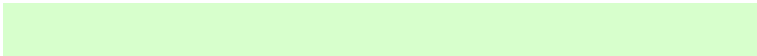
126.3076, 76.5264, 73.4676

# Sweetspot

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



45.8756, 76.5265, 21.8056



74.6106, 90.2892, 70.6219



68.3839, 72.6624, 19.8734



15.4410, 19.0738, 14.1526



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.



45.8756, 76.5265, 21.8056



41.5167, 74.4050, 15.9277



44.3269, 75.4227, 35.5282



18.1294, 20.3526, 19.1173



19.5729, 37.8283, 6.2700



1.9919, 3.7276, 0.6145



# Inverse Universe

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



51.1395, 29.5821, 97.6223



46.9293, 24.2143, 96.8081



56.1941, 32.9582, 63.0538



18.3957, 18.0957, 22.7732



22.1811, 10.3453, 50.2623

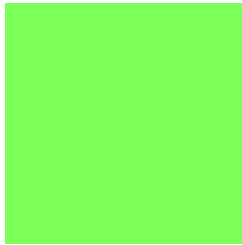


2.2491, 1.0533, 4.8980



# Previews

## White Background



This preview shows how the XYZ color 45.8754, 76.5264, 21.8044 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

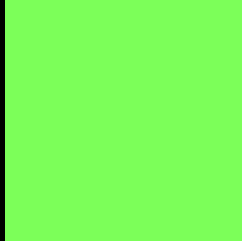
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.8754, 76.5264, 21.8044 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

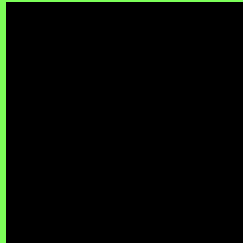
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

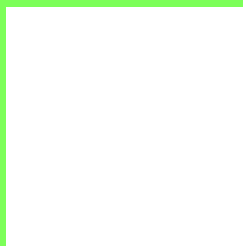
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 45.8754, 76.5264, 21.8044**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.8754, 76.5264, 21.8044.



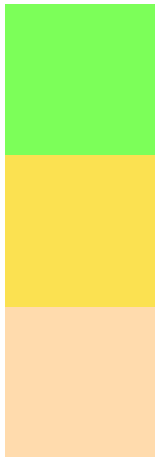
This preview shows how white text looks on a background with the XYZ color 45.8754, 76.5264,



# 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

45.8754, 76.5264, 21.8044

### Protanopia

68.1941, 74.9537, 18.6579

### Deuteranopia

74.1143, 74.9402, 50.0938



## Tritanopia

63.6440, 75.6809, 105.8612

# Trichromacy



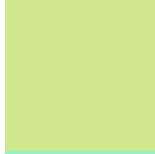
## Original Color

45.8754, 76.5264, 21.8044



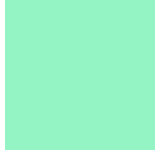
## Protanomaly

56.7725, 73.6101, 19.6035



## Deuteranomaly

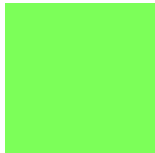
59.4712, 72.9316, 36.5339



## Tritanomaly

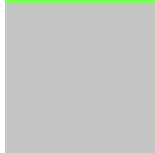
54.5954, 75.0311, 63.2347

# Monochromacy



## Original Color

45.8754, 76.5264, 21.8044



## Achromatopsia

53.0703, 55.8340, 60.8033



## Achromatomaly

47.8205, 61.1575, 41.6319

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.8754, 76.5264, 21.8044 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(124, 255, 89)` looks like.

```
.text, #text, p{  
    color:rgb(124, 255, 89)  
}
```

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(124, 255, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(124, 255, 89) }
```

## Border

The CSS property to change the border of an element to XYZ 45.8754, 76.5264, 21.8044 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(124, 255, 89) }
```



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

```
.border{ border-color:rgb(124, 255, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(124, 255, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(124, 255, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(124, 255, 89);  
box-shadow:4px 4px 4px 4px rgb(124, 255,  
89) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.8754, 76.5264, 21.8044 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(124, 255, 89) }
```

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

```
.background{ background-color: rgb(124,  
255, 89) }
```

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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