

# Converting Colors

XYZ(49.4949, 80.9009, 44.7575)

Have a look what the booklet for  
XYZ(49.4949, 80.9009, 44.7575)  
contains.

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# Color

**XYZ(47.5547, 76.8974,  
44.2346)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 68FF9D                       |
| RGB         | 104, 255, 157                |
| RGB Percent | 41%, 100%, 62%               |
| CMY         | 0.5921, 0.0000, 0.3843       |
| CMYK        | 0.59, 0.00, 0.38, 0.00       |
| HSL         | 141°, 100%, 70%              |
| HSV         | 141°, 59%, 100%              |
| XYZ         | 47.5547, 76.8974, 44.2346    |
| YIQ         | 198.6790, -58.5380, -62.4900 |

# Conversions

## Conversions Part 2

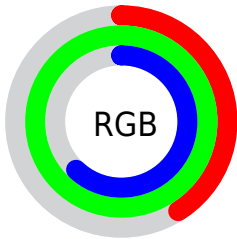
| Format                              | Color  |
|-------------------------------------|--|
| <a href="#">RYB</a>                 | <a href="#">104, 216, 255</a>                    |
| Decimal                             | <a href="#">6881181</a>                          |
| CIELab                              | <a href="#">90.27, -61.14, 35.11</a>             |
| CIELCh                              | <a href="#">90, 70.504, 150.137</a>              |
| Yxy                                 | <a href="#">76.8974, 0.2819,<br/>0.4559</a>      |
| Android<br>(android.graphics.Color) | <a href="#">4285071261<br/>(0xFF68FF9D)</a>      |
| YUV                                 | <a href="#">198.6790, -20.5477,<br/>-83.0335</a> |
| Hunter-Lab                          | <a href="#">87.6912, -56.6594,<br/>31.4758</a>   |

# Details

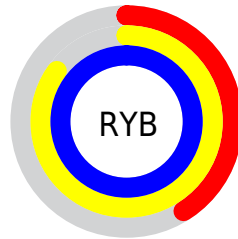
The XYZ color **47.5547, 76.8974, 44.2346** is a light color, and the websafe version is hex **66FF99**. A complement of this color would be **56.8511, 35.4252, 59.7179**, and the grayscale version is **54.2370, 57.0616, 62.1401**.

A 20% lighter version of the original color is **63.3696, 84.3805, 75.2345**, and **22.8253, 41.1119, 20.0970** is the 20% darker color. If you saturate the color by 10%, you get **43.7103, 75.0678, 37.1724**, and if you desaturate by 10%, it is **52.4861, 79.2651, 52.3493**.

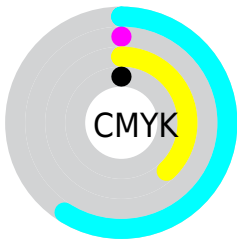
# Distribution



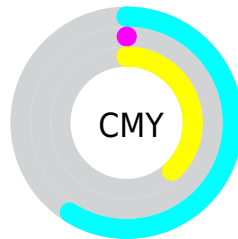
- Red (41%)
- Green (100%)
- Blue (62%)



- Red (41%)
- Yellow (85%)
- Blue (100%)



- Cyan (59%)
- Magenta (0%)
- Yellow (38%)
- Black (0%)




- Cyan (59%)
- Magenta (0%)
- Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.5547, 76.8974, 44.2346 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 47.5547, 76.8974, 44.2346 by changing the saturation by 10% instead.




 47.5547, 76.8974,  
44.2346


 47.5547, 76.8974,  
44.2346


367.6364,  
484.4141, 379.7341


 33.6842, 57.1687,  
30.5164


 85.7547, 128.9946,  
82.8769

 22.8128, 41.1407,  
19.9755


 110.8150,  
162.1319, 108.6381

 14.5753, 28.4290,  
12.1934


 140.3358,  
200.5076, 139.2507

 8.6062, 18.6493,  
6.7514

174.6826,  
244.5059, 175.1333

 4.5403, 11.4172,  
3.2310

214.2206,  
294.5113, 216.7044

 2.0121, 6.3482,  
1.2138


259.3154,


 0.6407, 3.0579,


350.9082, 264.3825


0.0000


310.3322,  
414.0810, 318.5862

 0.0000, 1.1620,  
0.0000


 0.0000, 0.0304,  
0.0000


 47.5547, 76.8974,  
44.2346


 47.5547, 76.8974,  
44.2346


 43.7103, 75.0678,  
37.1724


 52.4861, 79.2651,  
52.3493


 40.8603, 73.7297,  
31.1147


 58.5833, 82.2109,  
61.5541


 38.8979, 72.8289,  
26.0152

 65.9193, 85.7716,  
71.8893

 37.6650, 72.2849,  
21.8208

 74.5605, 89.9806,  
83.3921

 37.5845, 72.2498,  
21.5277

 84.5683, 94.8690,  
96.0977

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.



57.4207, 76.8974, 24.8715



47.5547, 76.8974, 44.2346



44.2688, 76.8974, 83.9593

# Triad

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



47.5547, 76.8974, 44.2346



73.1693, 76.8974, 222.3373



106.3318, 76.8974, 43.9737

# Complementary

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



47.5547, 76.8974, 44.2346



56.8511, 35.4252, 59.7179

# 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.



112.2968, 76.8974, 83.4975



47.5547, 76.8974, 44.2346



91.3753, 76.8974, 198.2145

# Square

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



47.5547, 76.8974, 44.2346



57.5397, 76.8974, 198.6250



106.4353, 76.8974, 141.6627



91.2133, 76.8974, 24.7689



# Rectangle

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



47.5547, 76.8974, 44.2346



45.7620, 76.8974, 121.6038



106.4353, 76.8974, 141.6627



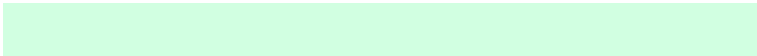
109.5725, 76.8974, 54.6678

# Sweetspot

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



47.5552, 76.8976, 44.2359



75.7022, 90.5377, 84.8708



62.6567, 85.0971, 26.2202



15.6253, 19.0968, 17.4141



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.



47.5552, 76.8976, 44.2359



43.1315, 74.7944, 36.0186



56.0845, 80.3093, 89.1504



18.0348, 20.2735, 20.4864



19.7024, 37.7775, 11.5840



1.9678, 3.6980, 1.3883



# Inverse Universe

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



56.8511, 35.4252, 59.7179



53.1391, 29.9324, 52.5275



49.9986, 32.6843, 23.6333



18.5060, 18.1857, 21.2818



25.1945, 12.5671, 20.2066

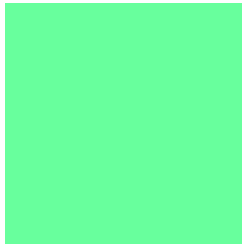


2.5049, 1.2443, 2.2403



# Previews

## White Background



This preview shows how the XYZ color 47.5547, 76.8974, 44.2346 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

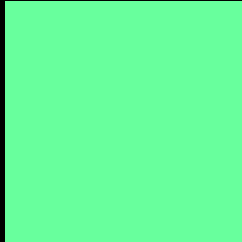
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.5547, 76.8974, 44.2346 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

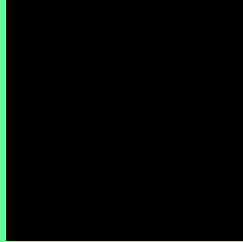
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 47.5547, 76.8974, 44.2346**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.5547, 76.8974, 44.2346.



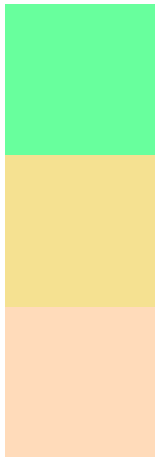
This preview shows how white text looks on a background with the XYZ color 47.5547, 76.8974,



# 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

47.5547, 76.8974, 44.2346

### Protanopia

69.6922, 75.3072, 37.6506

### Deuteranopia

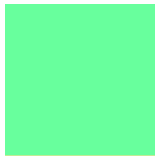
75.4344, 75.4682, 57.0454



## Tritanopia

63.0171, 76.2221, 105.9987

# Trichromacy



## Original Color

47.5547, 76.8974, 44.2346



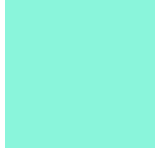
## Protanomaly

57.6684, 73.6302, 39.6064



## Deuteranomaly

60.4139, 73.0877, 51.4806



## Tritanomaly

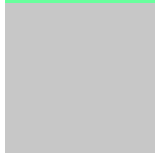
55.9198, 75.8226, 78.7058

# Monochromacy



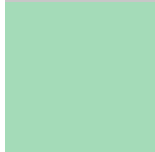
## Original Color

47.5547, 76.8974, 44.2346



## Achromatopsia

54.2854, 57.1125, 62.1955



## Achromatomaly

49.2931, 62.0162, 54.7197

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.5547, 76.8974, 44.2346 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(104, 255, 157)` looks like.

```
.text, #text, p{  
    color:rgb(104, 255, 157)  
}
```

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(104, 255, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 255, 157) }
```

## Border

The CSS property to change the border of an element to XYZ 47.5547, 76.8974, 44.2346 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(104, 255, 157) }
```



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

```
.border{ border-color:rgb(104, 255, 157) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 255, 157)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 255, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 255, 157);  
box-shadow:4px 4px 4px 4px rgb(104, 255,  
157) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.5547, 76.8974, 44.2346 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 255, 157) }
```

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

```
.background{ background-color: rgb(104,  
255, 157) }
```

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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