

# Converting Colors

XYZ(55.7566, 89.4754, 24.2821)

Have a look what the booklet for  
XYZ(55.7566, 89.4754, 24.2821)  
contains.

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# Color

**XYZ(50.4108, 78.8546,  
22.4611)**

# Conversions

## Conversions Part 1

Format	Color
Hex	97FF5B
RGB	151, 255, 91
RGB Percent	59%, 100%, 36%
CMY	0.4078, 0.0000, 0.6431
CMYK	0.41, 0.00, 0.64, 0.00
HSL	98°, 100%, 68%
HSV	98°, 64%, 100%
XYZ	50.4108, 78.8546, 22.4611
YIQ	205.2080, -9.3400, -73.0520

# Conversions

## Conversions Part 2

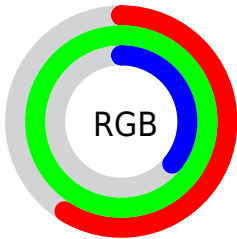
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">91, 255, 195</a>
Decimal	<a href="#">9961307</a>
CIELab	<a href="#">91.17, -57.20, 66.60</a>
CIElCh	<a href="#">91, 87.794, 130.660</a>
Yxy	<a href="#">78.8546, 0.3322, 0.5197</a>
Android (android.graphics.Color)	<a href="#">4288151387 (0xFF97FF5B)</a>
YUV	<a href="#">205.2080, -56.3045, -47.5404</a>
Hunter-Lab	<a href="#">88.8001, -54.0678, 47.1633</a>

# Details

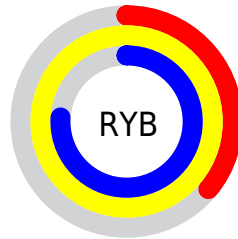
The XYZ color **50.4108, 78.8546, 22.4611** is a light color, and the websafe version is hex **99FF66**. The color can be described as light muted chartreuse. A complement of this color would be **44.2986, 26.3059, 97.3505**, and the grayscale version is **58.5124, 61.5596, 67.0384**.

A 20% lighter version of the original color is **67.8904, 87.4755, 40.9100**, and **24.4902, 42.2405, 7.9611** is the 20% darker color. If you saturate the color by 10%, you get **46.6930, 77.0442, 17.4882**, and if you desaturate by 10%, it is **54.9144, 81.0269, 29.4230**.

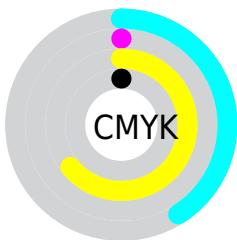
# Distribution



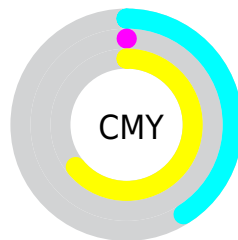
- Red (59%)
- Green (100%)
- Blue (36%)



- Red (36%)
- Yellow (100%)
- Blue (76%)



- Cyan (41%)
- Magenta (0%)
- Yellow (64%)
- Black (0%)




- Cyan (41%)
- Magenta (0%)
- Yellow (64%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.4108, 78.8546, 22.4611 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 50.4108, 78.8546, 22.4611 by changing the saturation by 10% instead.





 50.4108, 78.8546,  
22.4611


 50.4108, 78.8546,  
22.4611


378.6957,  
491.0643, 277.9765

 35.9591, 58.7763,  
13.9946


 89.9714, 131.7541,  
48.4188


 24.5725, 42.4330,  
7.9782


 115.8110,  
165.3442, 66.7471

 15.8859, 29.4405,  
3.9934


 146.1772,  
204.2068, 89.1997

 9.5338, 19.4143,  
1.6217

 181.4355,  
248.7266, 116.1952

 5.1508, 11.9700,  
0.3063

221.9511,  
299.2878, 148.1521

 2.3717, 6.7233,  
0.0000

268.0895,

 0.8310, 3.2897,

356.2749, 185.4889

0.0000

320.2159,  
420.0723, 228.6242

0.0000, 1.2848,  
0.0000

0.0000, 0.1294,  
0.0000

50.4108, 78.8546,  
22.4611

50.4108, 78.8546,  
22.4611

46.6930, 77.0442,  
17.4882

54.9144, 81.0269,  
29.4230

43.7039, 75.5710,  
14.2912

60.2529, 83.5825,  
38.5507

41.3775, 74.4064,  
12.6147

66.4716, 86.5413,  
50.0053

40.3033, 73.8622,  
12.1326

73.6122, 89.9215,  
63.9320

■ 81.7132, 93.7402,  
80.4638

■ 90.8111, 98.0135,  
99.7244

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.



67.3189, 78.8546, 13.0049



50.4108, 78.8546, 22.4611



41.4255, 78.8546, 51.3710

# Triad

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



50.4108, 78.8546, 22.4611



61.6686, 78.8546, 260.8493



125.2776, 78.8546, 65.1522

# Complementary

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



50.4108, 78.8546, 22.4611



44.2986, 26.3059, 97.3505

# 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.



122.9345, 78.8546, 133.1033



50.4108, 78.8546, 22.4611



83.1348, 78.8546, 271.0362

# Square

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



50.4108, 78.8546, 22.4611



46.9806, 78.8546, 192.8368



106.3831, 78.8546, 216.1849



112.2649, 78.8546, 28.2562



# Rectangle

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



50.4108, 78.8546, 22.4611



39.8244, 78.8546, 87.2761



106.3831, 78.8546, 216.1849



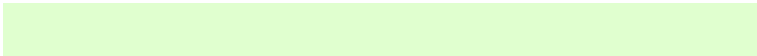
126.3151, 78.8546, 84.4578

# Sweetspot

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



50.4110, 78.8547, 22.4623



77.7932, 91.8942, 72.3807



62.6142, 60.9868, 18.3702



16.1617, 19.4384, 14.4988



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.



50.4110, 78.8547, 22.4623



45.8203, 76.6161, 16.4636



43.0483, 74.9338, 27.7796



18.3990, 20.4916, 19.1299



21.2087, 38.6715, 6.3465



2.1801, 3.8246, 0.6233



# Inverse Universe

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



44.2986, 26.3059, 97.3505



39.1647, 20.4001, 96.4811



59.7087, 34.6339, 80.7293



18.1106, 17.9487, 22.7599



17.3566, 7.8581, 50.0366

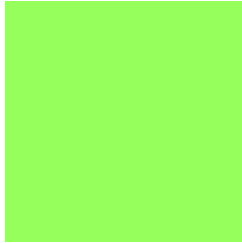


1.8101, 0.8271, 4.8775



# Previews

## White Background



This preview shows how the XYZ color 50.4108, 78.8546, 22.4611 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

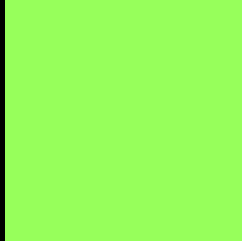
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.4108, 78.8546, 22.4611 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

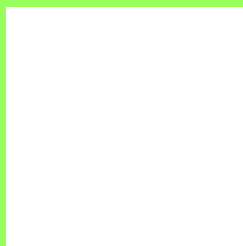
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 50.4108, 78.8546, 22.4611**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.4108, 78.8546, 22.4611.



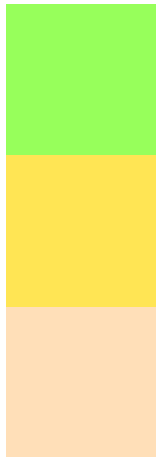
This preview shows how white text looks on a background with the XYZ color 50.4108, 78.8546,



# 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

50.4108, 78.8546, 22.4611

### Protanopia

70.8595, 77.9387, 19.6965

### Deuteranopia

76.2794, 77.4960, 56.2853



## Tritanopia

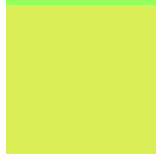
68.3917, 78.5594, 106.1666

# Trichromacy



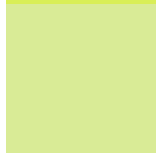
## Original Color

50.4108, 78.8546, 22.4611



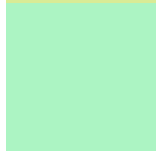
## Protanomaly

60.9101, 76.5889, 20.5897



## Deuteranomaly

63.8286, 76.3704, 40.2310



## Tritanomaly

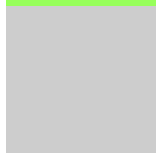
59.2143, 77.4122, 63.4509

# Monochromacy



## Original Color

50.4108, 78.8546, 22.4611



## Achromatopsia

58.0276, 61.0496, 66.4830



## Achromatomaly

53.0961, 65.7700, 45.0184

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.4108, 78.8546, 22.4611 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(151, 255, 91)` looks like.

```
.text, #text, p{  
    color:rgb(151, 255, 91)  
}
```

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(151, 255, 91) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(151, 255, 91) }
```

## Border

The CSS property to change the border of an element to XYZ 50.4108, 78.8546, 22.4611 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(151, 255, 91) }
```



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

```
.border{ border-color:rgb(151, 255, 91) }
```

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

Here you see how a box with a 4 pixel `rgb(151, 255, 91)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(151, 255, 91); -webkit-box-  
shadow:4px 4px 4px 4px rgb(151, 255, 91);  
box-shadow:4px 4px 4px 4px rgb(151, 255,  
91) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.4108, 78.8546, 22.4611 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(151, 255, 91) }
```

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

```
.background{ background-color: rgb(151,  
255, 91) }
```

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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