

Converting Colors

XYZ(66.9957, 112.7392,
44.7460)

Have a look what the booklet for
XYZ(66.9957, 112.7392, 44.7460)
contains.

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Color

**XYZ(49.6961, 78.1228,
38.8455)**

Conversions

Conversions Part 1

Format	Color
Hex	80FF90
RGB	128, 255, 144
RGB Percent	50%, 100%, 56%
CMY	0.4980, 0.0000, 0.4353
CMYK	0.50, 0.00, 0.44, 0.00
HSL	128°, 100%, 75%
HSV	128°, 50%, 100%
XYZ	49.6961, 78.1228, 38.8455
YIQ	204.3730, -40.0610, -61.4450

Conversions

Conversions Part 2

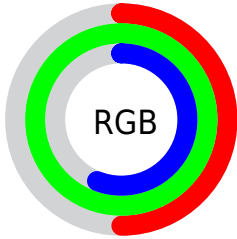
Format	Color
RYB	128, 241, 255
Decimal	8454032
CIELab	90.84, -57.69, 42.35
CIElCh	91, 71.568, 143.717
Yxy	78.1228, 0.2982, 0.4687
Android (android.graphics.Color)	4286644112 (0xFF80FF90)
YUV	204.3730, -29.7639, -66.9791
Hunter-Lab	88.3871, -54.3149, 35.8134

Details

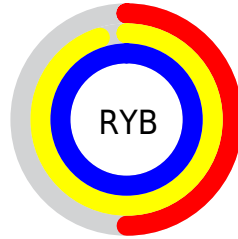
The XYZ color **49.6961, 78.1228, 38.8455** is a light color, and the websafe version is hex **66FF99**. A complement of this color would be **64.5390, 42.9305, 86.5447**, and the grayscale version is **57.8311, 60.8428, 66.2578**.

A 20% lighter version of the original color is **66.8078, 86.3349, 67.1760**, and **24.0780, 41.8290, 16.9300** is the 20% darker color. If you saturate the color by 10%, you get **44.7917, 75.7723, 30.5850**, and if you desaturate by 10%, it is **55.9012, 81.1050, 48.9246**.

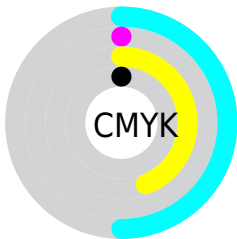
Distribution



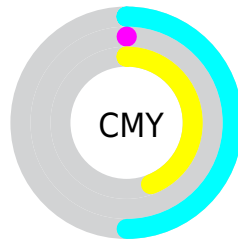
- Red (50%)
- Green (100%)
- Blue (56%)



- Red (50%)
- Yellow (95%)
- Blue (100%)



- Cyan (50%)
- Magenta (0%)
- Yellow (44%)
- Black (0%)





- Cyan (50%)
- Magenta (0%)
- Yellow (44%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.6961, 78.1228, 38.8455 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 49.6961, 78.1228, 38.8455 by changing the saturation by 10% instead.


 49.6961, 78.1228,
38.8455

 49.6961, 78.1228,
38.8455


375.9480,
488.5838, 356.6395


 35.3888, 58.1749,
26.3326


 88.9190, 130.7232,
74.6200

 24.1304, 41.9492,
16.8447


 114.5652,
164.1445, 98.7187

 15.5557, 29.0615,
9.9630


 144.7219,
202.8256, 127.5164

 9.2991, 19.1274,
5.2692

179.7542,
247.1511, 161.4317

 4.9955, 11.7624,
2.3446

220.0277,
297.5053, 200.8832

 2.2793, 6.5821,
0.7560

265.9075,

 0.7841, 3.2021,

354.2725, 246.2892

0.0000

317.7592,
417.8372, 298.0685

0.0000, 1.2382,
0.0000

0.0000, 0.0925,
0.0000

49.6961, 78.1228,
38.8455

49.6961, 78.1228,
38.8455

44.7917, 75.7723,
30.5850

55.9012, 81.1050,
48.9246

41.0934, 74.0069,
24.0311

63.4901, 84.7596,
60.9177

38.4952, 72.7747,
19.0655

72.5402, 89.1246,
74.9182

36.8721, 72.0141,
15.5530

83.1230, 94.2350,
91.0120

■ 36.0348, 71.6306, 95.0500, 100.0000,
13.3342 108.9000

■ 36.0225, 71.6250,
13.3022

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



61.1806, 78.1228, 22.7490



49.6961, 78.1228, 38.8455



44.8835, 78.1228, 74.6672

Triad

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



49.6961, 78.1228, 38.8455



70.5289, 78.1228, 226.5779



110.6733, 78.1228, 51.0898

Complementary

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



49.6961, 78.1228, 38.8455



64.5390, 42.9305, 86.5447

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.



114.2553, 78.1228, 96.3804



49.6961, 78.1228, 38.8455



89.0671, 78.1228, 211.9570

Square

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



49.6961, 78.1228, 38.8455



55.5927, 78.1228, 192.6337



105.8032, 78.1228, 158.2601



96.6824, 78.1228, 27.5566

Rectangle

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



49.6961, 78.1228, 38.8455



45.4431, 78.1228, 110.8069



105.8032, 78.1228, 158.2601



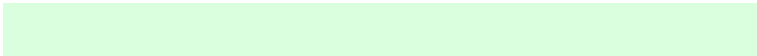
113.2195, 78.1228, 63.6505

Sweetspot

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



49.6965, 78.1230, 38.8467



77.4282, 91.4843, 82.3825



75.6539, 91.6359, 34.1226



16.1042, 19.3552, 16.9192



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.



49.6965, 78.1230, 38.8467



44.7078, 75.7321, 30.4401



55.8414, 80.5809, 71.2052



17.8647, 20.2054, 19.5904



18.8513, 37.4371, 7.1020



1.8633, 3.6563, 0.8382

Inverse Universe

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



64.5390, 42.9305, 86.5447



61.0913, 36.8027, 83.0290



56.8637, 39.8604, 46.1268



18.6883, 18.2587, 22.2419



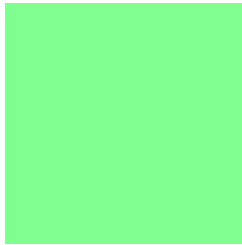
28.5379, 13.9045, 37.8128



2.8050, 1.3644, 3.8208

Previews

White Background



This preview shows how the XYZ color 49.6961, 78.1228, 38.8455 looks on a white background.

Color Contrast Check

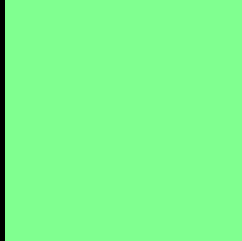
Large Text (above 18pt) WCAG AA × Fail

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 49.6961, 78.1228, 38.8455 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 49.6961, 78.1228, 38.8455

Background



This preview shows how black text looks on a background with the XYZ color 49.6961, 78.1228, 38.8455.



This preview shows how white text looks on a background with the XYZ color 49.6961, 78.1228,

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

49.6961, 78.1228, 38.8455

Protanopia

70.8391, 76.7991, 33.6444

Deuteranopia

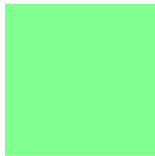
76.0661, 76.5608, 57.7823



Tritanopia

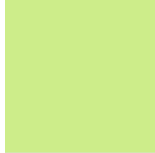
65.7111, 77.6109, 106.1248

Trichromacy



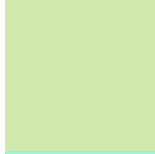
Original Color

49.6961, 78.1228, 38.8455



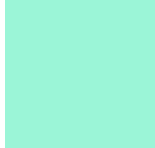
Protanomaly

60.0485, 75.3825, 35.4301



Deuteranomaly

62.7841, 74.7734, 49.6517



Tritanomaly

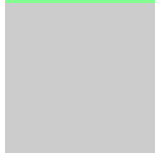
58.4357, 77.1797, 76.1073

Monochromacy



Original Color

49.6961, 78.1228, 38.8455



Achromatopsia

57.3938, 60.3827, 65.7568



Achromatomaly

52.7357, 65.3829, 54.0967

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.6961, 78.1228, 38.8455 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(128, 255, 144)` looks like.

```
.text, #text, p{  
    color:rgb(128, 255, 144)  
}
```

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(128, 255, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 255, 144) }
```

Border

The CSS property to change the border of an element to XYZ 49.6961, 78.1228, 38.8455 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(128, 255, 144) }
```


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

```
.border{ border-color:rgb(128, 255, 144) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 255, 144)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 255, 144); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 255, 144);  
box-shadow:4px 4px 4px 4px rgb(128, 255,  
144) }
```

Background

The CSS property to change the background color of an element to XYZ 49.6961, 78.1228, 38.8455 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 255, 144) }
```

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

```
.background{ background-color: rgb(128,  
255, 144) }
```

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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