

# Converting Colors

XYZ(49.6989, 78.3646, 27.9849)

Have a look what the booklet for  
XYZ(49.6989, 78.3646, 27.9849)  
contains.

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# Color

**XYZ(49.7251, 78.3750,  
28.1299)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8DFF71
RGB	141, 255, 113
RGB Percent	55%, 100%, 44%
CMY	0.4471, 0.0000, 0.5568
CMYK	0.45, 0.00, 0.56, 0.00
HSL	108°, 100%, 72%
HSV	108°, 56%, 100%
XYZ	49.7251, 78.3750, 28.1299
YIQ	204.7260, -22.3620, -68.3300

# Conversions

## Conversions Part 2

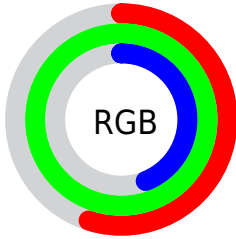
Format	Color
<a href="#">RYB</a>	<a href="#">113, 255, 227</a>
Decimal	<a href="#">9305969</a>
CIELab	<a href="#">90.95, -58.11, 57.02</a>
CIELCh	<a href="#">91, 81.411, 135.542</a>
Yxy	<a href="#">78.3750, 0.3183, 0.5017</a>
Android (android.graphics.Color)	<a href="#">4287496049 (0xFF8DFF71)</a>
YUV	<a href="#">204.7260, -45.2209, -55.8877</a>
Hunter-Lab	<a href="#">88.5297, -54.6675, 43.1316</a>

# Details

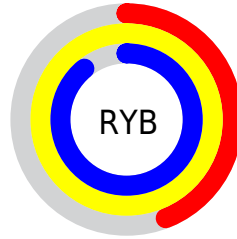
The XYZ color **49.7251, 78.3750, 28.1299** is a light color, and the websafe version is hex **99FF66**. A complement of this color would be **55.6354, 35.3627, 98.5011**, and the grayscale version is **58.1424, 61.1703, 66.6145**.

A 20% lighter version of the original color is **66.6473, 86.6265, 50.2537**, and **24.0382, 41.9435, 10.8319** is the 20% darker color. If you saturate the color by 10%, you get **45.3201, 76.2473, 21.4538**, and if you desaturate by 10%, it is **55.1774, 80.9959, 36.9622**.

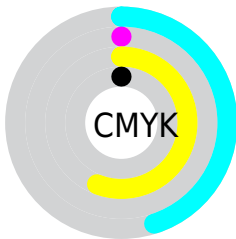
# Distribution



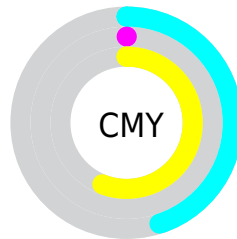
- Red (55%)
- Green (100%)
- Blue (44%)



- Red (44%)
- Yellow (100%)
- Blue (89%)



- Cyan (45%)
- Magenta (0%)
- Yellow (56%)
- Black (0%)




- Cyan (45%)
- Magenta (0%)
- Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7251, 78.3750, 28.1299 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 49.7251, 78.3750, 28.1299 by changing the saturation by 10% instead.





 49.7251, 78.3750,  
28.1299


 49.7251, 78.3750,  
28.1299


376.0597,  
489.4394, 307.0185


 35.4119, 58.3821,  
18.1837


 88.9617, 131.0786,  
57.7174

 24.1484, 42.1159,  
10.9112

 114.6158,  
164.5581, 78.1957

 15.5690, 29.1921,  
5.8937


 144.7810,  
203.3019, 103.0219

 9.3086, 19.2262,  
2.7128

179.8225,  
247.6944, 132.6144

 5.0017, 11.8338,  
0.9499

220.1058,  
298.1200, 167.3917

 2.2831, 6.6306,  
0.0000

265.9962,

 0.7860, 3.2322,

354.9631, 207.7725

0.0000

317.8591,  
418.6081, 254.1753

0.0000, 1.2541,  
0.0000

0.0000, 0.1053,  
0.0000

49.7251, 78.3750,  
28.1299

49.7251, 78.3750,  
28.1299

45.3201, 76.2473,  
21.4538

55.1774, 80.9959,  
36.9622

41.8912, 74.5803,  
16.7456


61.7396, 84.1388,  
48.1103


39.3593, 73.3378,  
13.7909

69.4703, 87.8309,  
61.7231

37.6306, 72.4774,  
12.3229

78.4237, 92.0970,  
77.9358

 37.0890, 72.2051,  
11.9822

 88.6504, 96.9604,  
96.8741

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.



64.4106, 78.3750, 16.1938



49.7251, 78.3750, 28.1299



42.4396, 78.3750, 60.1144

# Triad

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



49.7251, 78.3750, 28.1299



65.0680, 78.3750, 248.2437



119.3519, 78.3750, 58.4926

# Complementary

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



49.7251, 78.3750, 28.1299



55.6354, 35.3627, 98.5011

# Split Complementary

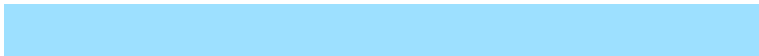
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



119.6169, 78.3750, 116.7805



49.7251, 78.3750, 28.1299



85.5764, 78.3750, 247.1166

# Square

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



49.7251, 78.3750, 28.1299



50.1298, 78.3750, 194.1059



106.3626, 78.3750, 191.5003



105.6940, 78.3750, 27.4139



# Rectangle

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



49.7251, 78.3750, 28.1299



41.7117, 78.3750, 96.7257



106.3626, 78.3750, 191.5003



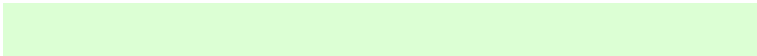
121.0836, 78.3750, 74.8794

# Sweetspot

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



49.7254, 78.3751, 28.1311



77.1744, 91.5022, 75.6503



71.5809, 77.1724, 26.7470



16.1191, 19.3950, 15.4644



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.



49.7254, 78.3751, 28.1311



44.8149, 76.0024, 20.7263



48.5377, 77.4178, 43.6614



18.1059, 20.3405, 19.1162



19.4739, 37.7773, 6.2654



1.9790, 3.7210, 0.6139



# Inverse Universe

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



55.6354, 35.3627, 98.5011



51.1469, 29.0056, 97.5107



59.0799, 37.8449, 66.7440



18.4211, 18.1088, 22.7744



22.6712, 10.5979, 50.2853

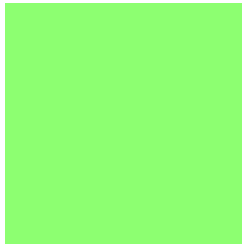


2.2927, 1.0758, 4.9001



# Previews

## White Background



This preview shows how the XYZ color 49.7251, 78.3750, 28.1299 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 49.7251, 78.3750, 28.1299 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

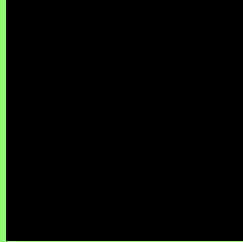
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

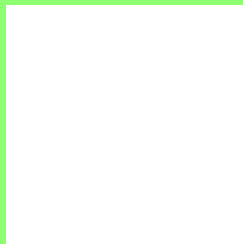
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.7251, 78.3750, 28.1299**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.7251, 78.3750, 28.1299.



This preview shows how white text looks on a background with the XYZ color 49.7251, 78.3750,



# 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

49.7251, 78.3750, 28.1299

### Protanopia

70.3870, 77.1817, 24.2845

### Deuteranopia

76.0130, 76.9632, 56.1965



## Tritanopia

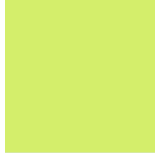
66.7560, 77.7162, 106.0901

# Trichromacy



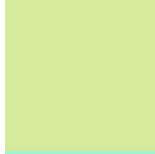
## Original Color

49.7251, 78.3750, 28.1299



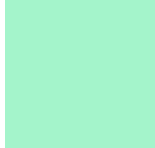
## Protanomaly

60.3798, 76.2077, 25.4371



## Deuteranomaly

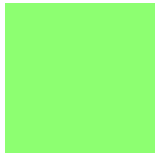
63.3259, 75.6104, 43.6044



## Tritanomaly

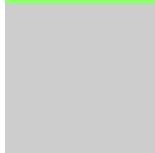
58.4400, 76.9057, 68.2641

# Monochromacy



## Original Color

49.7251, 78.3750, 28.1299



## Achromatopsia

58.0276, 61.0496, 66.4830



## Achromatomaly

53.1255, 65.6990, 48.9109

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.7251, 78.3750, 28.1299 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(141, 255, 113)` looks like.

```
.text, #text, p{  
    color:rgb(141, 255, 113)  
}
```

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(141, 255, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(141, 255, 113) }
```

## Border

The CSS property to change the border of an element to XYZ 49.7251, 78.3750, 28.1299 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(141, 255, 113) }
```



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

```
.border{ border-color:rgb(141, 255, 113) }
```

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

Here you see how a box with a 4 pixel rgb(141, 255, 113) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(141, 255, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(141, 255, 113);  
box-shadow:4px 4px 4px 4px rgb(141, 255,  
113) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.7251, 78.3750, 28.1299 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(141, 255, 113) }
```

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

```
.background{ background-color: rgb(141,  
255, 113) }
```

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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