

Converting Colors

XYZ(49.6683, 78.2009, 34.6702)

Have a look what the booklet for
XYZ(49.6683, 78.2009, 34.6702)
contains.

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Color

**XYZ(49.6665, 78.2000,
34.6667)**

Conversions

Conversions Part 1	
Format	Color
Hex	85FF85
RGB	133, 255, 133
RGB Percent	52%, 100%, 52%
CMY	0.4784, 0.0000, 0.4784
CMYK	0.48, 0.00, 0.48, 0.00
HSL	120°, 100%, 76%
HSV	120°, 48%, 100%
XYZ	49.6665, 78.2000, 34.6667
YIQ	204.6140, -33.5500, -63.8060

Conversions

Conversions Part 2

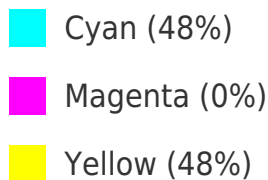
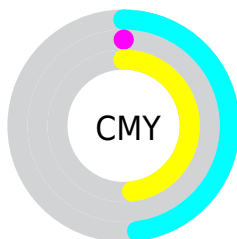
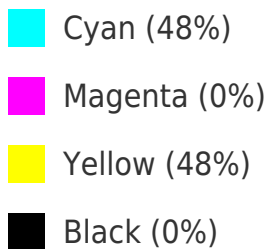
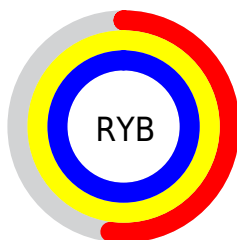
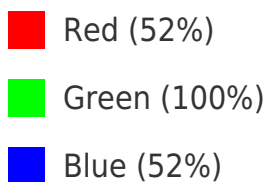
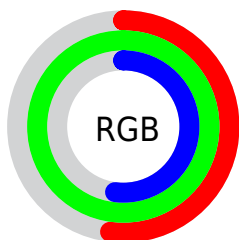
Format	Color
RYB	133, 255, 255
Decimal	8781701
CIELab	90.87, -57.92, 47.69
CIELCh	91, 75.032, 140.533
Yxy	78.2000, 0.3056, 0.4811
Android (android.graphics.Color)	4286971781 (0xFF85FF85)
YUV	204.6140, -35.3057, -62.8055
Hunter-Lab	88.4308, -54.5006, 38.6586

Details

The XYZ color **49.6665, 78.2000, 34.6667** is a light color, and the websafe version is hex **66FF99**. A complement of this color would be **67.6773, 45.2551, 99.7738**, and the grayscale version is **58.0153, 61.0366, 66.4689**.

A 20% lighter version of the original color is **66.5753, 86.3573, 60.7367**, and **24.0128, 41.8513, 14.4019** is the 20% darker color. If you saturate the color by 10%, you get **44.5642, 75.7491, 26.3216**, and if you desaturate by 10%, it is **56.1742, 81.3260, 45.3119**.


Distribution




Brightness & Saturation Gradients


These gradients show how the XYZ color 49.6665, 78.2000, 34.6667 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 49.6665, 78.2000, 34.6667 by changing the saturation by 10% instead.


 49.6665, 78.2000,
34.6667


 49.6665, 78.2000,
34.6667


375.8339,
488.8458, 337.9542


 35.3652, 58.2383,
23.1247


 88.8753, 130.8320,
68.1148

 24.1122, 42.0002,
14.4795


 114.5136,
164.2711, 90.8581

 15.5420, 29.1015,
8.3124


 144.6615,
202.9715, 118.1721

 9.2895, 19.1576,
4.2048

179.6845,
247.3175, 150.4756

 4.9891, 11.7842,
1.7384

219.9478,
297.6935, 188.1870

 2.2755, 6.5969,
0.3868


265.8170,


 0.7821, 3.2113,


354.4840, 231.7249


0.0000


317.6572,
418.0733, 281.5077

 0.0000, 1.2430,
0.0000


 0.0000, 0.0964,
0.0000


 49.6665, 78.2000,
34.6667


 49.6665, 78.2000,
34.6667


 44.5642, 75.7491,
26.3216

 56.1742, 81.3260,
45.3119


 40.7629, 73.9231,
20.1037

 64.1794, 85.1712,
58.4058

 38.1452, 72.6657,
15.8219

 73.7673, 89.7768,
74.0886

 36.5725, 71.9103,
13.2492

 85.0168, 95.1806,
92.4891

■ 35.8590, 71.5676, 95.0500, 100.0000,
12.0821 108.9000

■ 35.7600, 71.5200,
11.9201

Harmonies

Analogous

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



62.3020, 78.2000, 20.1620



49.6665, 78.2000, 34.6667



43.9495, 78.2000, 69.1577

Triad

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



49.6665, 78.2000, 34.6667



68.5114, 78.2000, 234.4727



113.7906, 78.2000, 53.6264

Complementary

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



49.6665, 78.2000, 34.6667



67.6773, 45.2551, 99.7738

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.



116.2154, 78.2000, 103.4272



49.6665, 78.2000, 34.6667



87.8070, 78.2000, 224.4212

Square

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



49.6665, 78.2000, 34.6667



53.5485, 78.2000, 193.3328



106.0381, 78.2000, 169.8528



99.8854, 78.2000, 27.4450

Rectangle

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



49.6665, 78.2000, 34.6667



44.0322, 78.2000, 105.6105



106.0381, 78.2000, 169.8528



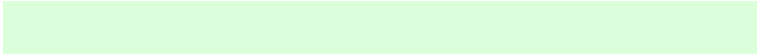
116.0575, 78.2000, 67.5131

Sweetspot

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



49.6669, 78.2002, 34.6679



77.8896, 91.7570, 80.8312



81.2337, 94.4735, 36.1444



16.1696, 19.3987, 16.4802



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.



49.6669, 78.2002, 34.6679



44.9425, 75.9308, 26.9404



55.1707, 80.4017, 63.6505



17.7717, 20.1682, 19.1006



18.6854, 37.3707, 6.2286



1.8193, 3.6387, 0.6065

Inverse Universe

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



67.6773, 45.2551, 99.7738



64.8278, 39.5563, 98.8236



59.3653, 41.9304, 56.0037



18.7927, 18.3004, 22.7917



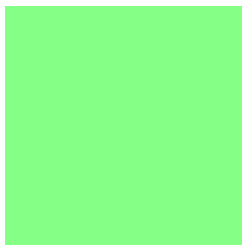
30.9799, 14.8812, 50.6719



3.0164, 1.4489, 4.9338

Previews

White Background



This preview shows how the XYZ color 49.6665, 78.2000, 34.6667 looks on a white background.

Color Contrast Check

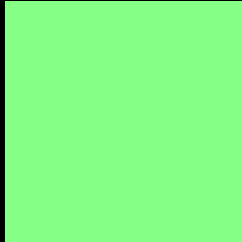
Large Text (above 18pt) WCAG AA × Fail

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 49.6665, 78.2000, 34.6667 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

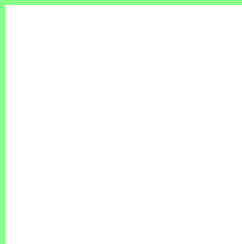
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 49.6665, 78.2000, 34.6667

Background



This preview shows how black text looks on a background with the XYZ color 49.6665, 78.2000, 34.6667.

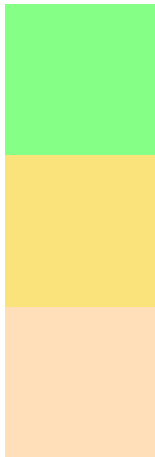


This preview shows how white text looks on a background with the XYZ color 49.6665, 78.2000,

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

49.6665, 78.2000, 34.6667

Protanopia

70.4686, 76.6922, 29.8279

Deuteranopia

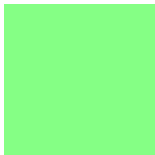
76.2242, 77.0477, 57.3086



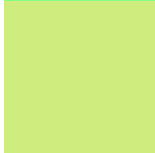
Tritanopia

66.1501, 77.8372, 106.1454

Trichromacy



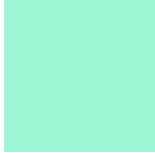
Original Color
49.6665, 78.2000, 34.6667



Protanomaly
59.8471, 75.3661, 31.4715

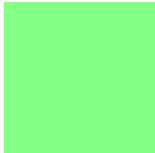


Deuteranomaly
63.2618, 75.4845, 47.7949



Tritanomaly
58.5108, 77.2771, 73.4601

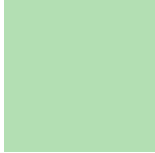
Monochromacy



Original Color
49.6665, 78.2000, 34.6667



Achromatopsia
58.0276, 61.0496, 66.4830



Achromatomaly
53.1148, 65.6137, 52.5131

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.6665, 78.2000, 34.6667 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(133, 255, 133)` looks like.

```
.text, #text, p{  
    color:rgb(133, 255, 133)  
}
```


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(133, 255, 133) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 255, 133) }
```

Border

The CSS property to change the border of an element to XYZ 49.6665, 78.2000, 34.6667 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(133, 255, 133) }
```


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

```
.border{ border-color:rgb(133, 255, 133) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 255, 133)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 255, 133); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 255, 133);  
box-shadow:4px 4px 4px 4px rgb(133, 255,  
133) }
```


Background

The CSS property to change the background color of an element to XYZ 49.6665, 78.2000, 34.6667 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 255, 133) }
```

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

```
.background{ background-color: rgb(133,  
255, 133) }
```

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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