

Converting Colors

XYZ(49.7644, 66.7820, 41.8262)

Have a look what the booklet for
XYZ(49.7644, 66.7820, 41.8262)
contains.

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Color

**XYZ(49.8146, 66.9933,
41.7580)**

Conversions

Conversions Part 1

Format	Color
Hex	A5E69C
RGB	165, 230, 156
RGB Percent	65%, 90%, 61%
CMY	0.3529, 0.0980, 0.3882
CMYK	0.28, 0.00, 0.32, 0.10
HSL	113°, 60%, 76%
HSV	113°, 32%, 90%
XYZ	49.8146, 66.9933, 41.7580
YIQ	202.1290, -14.9860, -36.7940

Conversions

Conversions Part 2

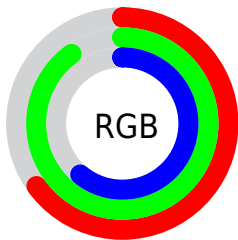
Format	Color
RYB	156, 230, 221
Decimal	10872476
CIELab	85.50, -34.37, 29.69
CIELCh	86, 45.423, 139.179
Yxy	66.9933, 0.3142, 0.4225
Android (android.graphics.Color)	4289062556 (0xFFA5E69C)
YUV	202.1290, -22.7416, -32.5621
Hunter-Lab	81.8494, -34.5992, 27.0460

Details

The XYZ color **49.8146, 66.9933, 41.7580** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **55.9933, 44.8643, 80.5751**, and the grayscale version is **56.3652, 59.3006, 64.5783**.

A 20% lighter version of the original color is **77.3367, 91.5953, 75.2316**, and **24.1903, 34.6511, 18.5101** is the 20% darker color. If you saturate the color by 10%, you get **44.1732, 64.2912, 32.2722**, and if you desaturate by 10%, it is **56.4921, 70.1909, 53.2201**.

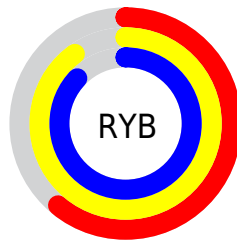
Distribution



Red (65%)

Green (90%)

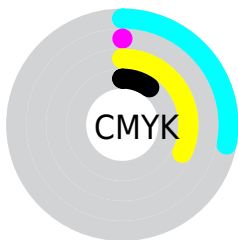
Blue (61%)



Red (61%)

Yellow (90%)

Blue (87%)

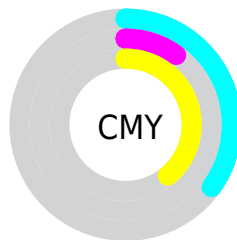


Cyan (28%)

Magenta (0%)

Yellow (32%)

Black (10%)



Cyan (35%)


Magenta (10%)


Yellow (39%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.8146, 66.9933, 41.7580 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 49.8146, 66.9933, 41.7580 by changing the saturation by 10% instead.


 49.8146, 66.9933,
41.7580


 49.8146, 66.9933,
41.7580


376.4045,
449.9209, 369.2488

 35.4833, 49.0792,
28.5877


 89.0936, 114.9108,
79.0994

 24.2037, 34.6823,
18.5262


 114.7720,
145.6830, 104.1075

 15.6103, 23.4182,
11.1551

144.9635,
181.5100, 133.8987

 9.3379, 14.9026,
6.0558

180.0334,
222.7762, 168.8914

 5.0211, 8.7511,
2.8097

220.3471,
269.8660, 209.5042

 2.2945, 4.5792,
0.9983

266.2699,

 0.7919, 2.0025,

323.1638, 256.1557

0.0000

318.1673,
383.0540, 309.2644

0.0000, 0.6089,
0.0000

0.0000, 0.0000,
0.0000

49.8146, 66.9933,
41.7580

49.8146, 66.9933,
41.7580

44.1732, 64.2912,
32.2722

56.4921, 70.1909,
53.2201

39.5109, 62.0516,
24.6470

64.2488, 73.8981,
66.7566

35.7728, 60.2509,
18.7612

73.1318, 78.1389,
82.4647

32.8964, 58.8599,
14.4778

83.1835, 82.9335,
100.4339

■ 30.8116, 57.8458,
11.6392

■ 87.5882, 85.0764,
106.4127

■ 29.4366, 57.1706,
10.0558

■ 28.7762, 56.8428,
9.4551

Harmonies

Analogous

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



57.3791, 66.9933, 31.3738



49.8146, 66.9933, 41.7580



46.1137, 66.9933, 62.7922

Triad

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



49.8146, 66.9933, 41.7580



60.0239, 66.9933, 144.1671



84.3043, 66.9933, 55.8298

Complementary

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



49.8146, 66.9933, 41.7580



55.9933, 44.8643, 80.5751

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.



85.2097, 66.9933, 84.1357



49.8146, 66.9933, 41.7580



70.4156, 66.9933, 140.8186

Square

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



49.8146, 66.9933, 41.7580



51.5704, 66.9933, 124.9247



79.8941, 66.9933, 116.7305



77.5396, 66.9933, 37.8504

Rectangle

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



49.8146, 66.9933, 41.7580



46.0342, 66.9933, 82.3859



79.8941, 66.9933, 116.7305



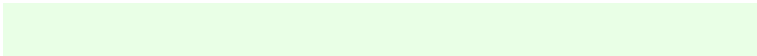
85.3295, 66.9933, 64.2531

Sweetspot

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



49.8163, 66.9962, 41.7595



83.4468, 94.4616, 88.3301



64.2651, 70.4830, 41.6710



17.5372, 20.0640, 18.3361



0.0000, 0.0000, 0.0000



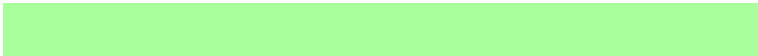
20.3446, 21.4041, 23.3091

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



49.8163, 66.9962, 41.7595



57.7952, 82.1907, 44.0713



50.5704, 67.0891, 55.1585



14.3513, 16.1727, 15.2697



16.3445, 32.2074, 5.3552



1.2615, 2.4077, 0.3982

Inverse Universe

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



55.9933, 44.8643, 80.5751



66.7933, 49.8844, 100.7160



55.2876, 44.9072, 62.1731



14.8136, 14.5216, 18.1665



21.9509, 10.3820, 43.2302



1.6709, 0.7923, 3.1968

Previews

White Background



This preview shows how the XYZ color 49.8146, 66.9933, 41.7580 looks on a white background.

Color Contrast Check

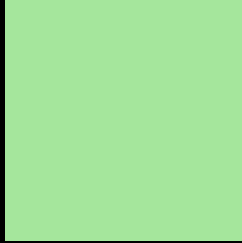
Large Text (above 18pt) WCAG AA × Fail

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 49.8146, 66.9933, 41.7580 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

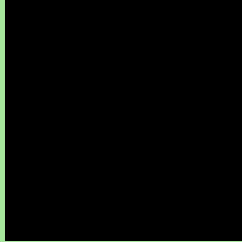
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 49.8146, 66.9933, 41.7580

Background



This preview shows how black text looks on a background with the XYZ color 49.8146, 66.9933, 41.7580.



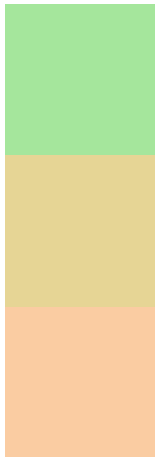
This preview shows how white text looks on a background with the XYZ color 49.8146, 66.9933,

41.7580.

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

49.8146, 66.9933, 41.7580

Protanopia

61.8522, 66.5814, 38.0253

Deuteranopia

67.5388, 66.1184, 43.3849



Tritanopia

59.4697, 66.8845, 89.8964

Trichromacy



Original Color

49.8146, 66.9933, 41.7580



Protanomaly

56.4526, 66.0518, 39.4797



Deuteranomaly

59.3528, 65.1866, 42.7118



Tritanomaly

55.4964, 66.8640, 69.6556

Monochromacy



Original Color

49.8146, 66.9933, 41.7580



Achromatopsia

56.1383, 59.0619, 64.3184



Achromatomaly

53.2867, 61.4086, 54.9435

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.8146, 66.9933, 41.7580 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(165, 230, 156)` looks like.

```
.text, #text, p{  
    color:rgb(165, 230, 156)  
}
```

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(165, 230, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 230, 156) }
```

Border

The CSS property to change the border of an element to XYZ 49.8146, 66.9933, 41.7580 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(165, 230, 156) }
```


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

```
.border{ border-color:rgb(165, 230, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(165, 230, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 230, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 230, 156);  
box-shadow:4px 4px 4px 4px rgb(165, 230,  
156) }
```

Background

The CSS property to change the background color of an element to XYZ 49.8146, 66.9933, 41.7580 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 230, 156) }
```

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

```
.background{ background-color: rgb(165,  
230, 156) }
```

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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