

Converting Colors

XYZ(46.8413, 34.4945, 98.7970)

Have a look what the booklet for
XYZ(46.8413, 34.4945, 98.7970)
contains.

XYZ(46.9310, 34.5599, 98.8049)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(46.9310, 34.5599,
98.8049)**

Conversions

Conversions Part 1

Format	Color
Hex	BB85FF
RGB	187, 133, 255
RGB Percent	73%, 52%, 100%
CMY	0.2667, 0.4784, 0.0000
CMYK	0.27, 0.48, 0.00, 0.00
HSL	267°, 100%, 76%
HSV	267°, 48%, 100%
XYZ	46.9310, 34.5599, 98.8049
YIQ	163.0540, -6.9780, 49.3900

Conversions

Conversions Part 2

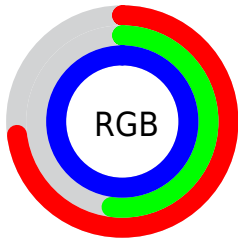
Format	Color
RYB	187, 133, 255
Decimal	12289535
CIELab	65.40, 44.31, -53.28
CIELCh	65, 69.296, 309.752
Yxy	34.5599, 0.2603, 0.1917
Android (android.graphics.Color)	4290479615 (0xFFBB85FF)
YUV	163.0540, 45.3294, 21.0006
Hunter-Lab	58.7877, 39.6206, -58.4978

Details

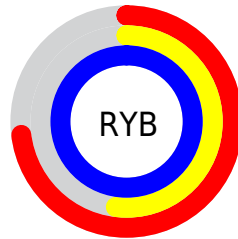
The XYZ color **46.9310, 34.5599, 98.8049** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **64.0815, 85.6312, 35.3426**, and the grayscale version is **34.6346, 36.4383, 39.6813**.

A 20% lighter version of the original color is **73.4765, 62.1731, 102.7357**, and **22.5704, 14.9371, 55.1196** is the 20% darker color. If you saturate the color by 10%, you get **40.5475, 26.7010, 97.6245**, and if you desaturate by 10%, it is **54.5084, 44.2933, 100.2843**.

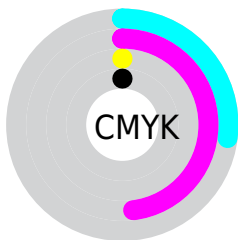
Distribution



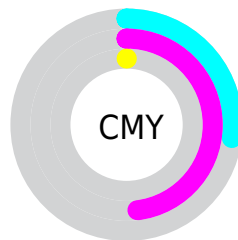
- Red (73%)
- Green (52%)
- Blue (100%)



- Red (73%)
- Yellow (52%)
- Blue (100%)



- Cyan (27%)
- Magenta (48%)
- Yellow (0%)
- Black (0%)





- Cyan (27%)
- Magenta (48%)
- Yellow (0%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 46.9310, 34.5599, 98.8049 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 46.9310, 34.5599, 98.8049 by changing the saturation by 10% instead.


 46.9310, 34.5599,
98.8049


 46.9310, 34.5599,
98.8049

365.1926,
322.6215, 577.5682

 33.1888, 23.3241,
74.6915


 84.8300, 66.8034,
161.5514

 22.4311, 14.8330,
54.8600


 109.7175, 88.5799,
201.0216

 14.2924, 8.7022,
38.8918


 139.0509,
114.6387, 246.4478

 8.4073, 4.5475,
26.3684

173.1954,
145.3642, 298.2486

 4.4107, 1.9843,
16.8712

212.5165,
181.1409, 356.8425

 1.9370, 0.5983,
9.9817

257.3795,

 0.5982, 0.0000,

222.3530, 422.6480

5.2814

308.1497,
269.3851, 496.0837

■ 0.0000, 0.0000,
2.3517

■ 0.0000, 0.0000,
0.7600

■ 46.9310, 34.5599,
98.8049

■ 46.9310, 34.5599,
98.8049

■ 40.5475, 26.7010,
97.6245

■ 54.5084, 44.2933,
100.2843

■ 35.2819, 20.5829,
96.7211

■ 63.3416, 56.0145,
102.0812

■ 31.0540, 16.0595,
96.0708

■ 73.4924, 69.8322,
104.2132

■ 27.7692, 12.9579,
95.6453

■ 85.0171, 85.8458,
106.6968

■ 25.3040, 11.0482,
95.4066

95.0500, 100.0000,
108.9000

■ 24.8434, 10.7221,
95.3679

Harmonies

Analogous

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



36.2562, 34.5599, 123.6253



46.9310, 34.5599, 98.8049



54.6991, 34.5599, 60.4030

Triad

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



46.9310, 34.5599, 98.8049



40.0543, 34.5599, 5.8201



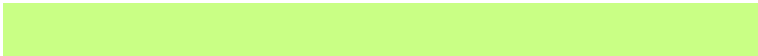
17.1588, 34.5599, 47.8823

Complementary

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



46.9310, 34.5599, 98.8049



64.0815, 85.6312, 35.3426

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.



17.7634, 34.5599, 21.4487



46.9310, 34.5599, 98.8049



29.6607, 34.5599, 5.0924

Square

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



46.9310, 34.5599, 98.8049



50.1974, 34.5599, 12.0568



21.9086, 34.5599, 8.9862



20.0426, 34.5599, 85.7086

Rectangle

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



46.9310, 34.5599, 98.8049



56.4059, 34.5599, 37.8716



21.9086, 34.5599, 8.9862



16.9772, 34.5599, 37.3892

Sweetspot

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



46.9322, 34.5612, 98.8051



77.7545, 75.7192, 105.1249



48.8756, 54.5112, 102.5534



16.1249, 15.4907, 22.3901



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.



46.9322, 34.5612, 98.8051



41.0407, 27.2936, 97.7128



64.7489, 43.7460, 99.6389



17.7661, 17.7712, 22.7438



13.1464, 5.6877, 49.8395



1.4032, 0.6173, 4.8585

Inverse Universe

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



60.1707, 42.2531, 60.2431



56.1452, 36.0833, 53.1020



51.0016, 78.8883, 34.7305



18.4333, 18.1566, 20.8988



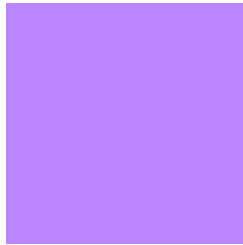
24.1815, 12.1619, 14.8720



2.4095, 1.2062, 1.7377

Previews

White Background



This preview shows how the XYZ color 46.9310, 34.5599, 98.8049 looks on a white background.

Color Contrast Check

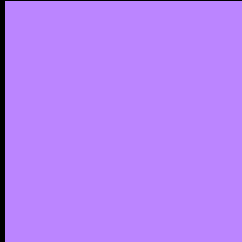
Large Text (above 18pt) WCAG AA × Fail

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 46.9310, 34.5599, 98.8049 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

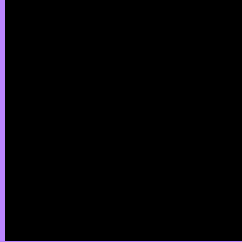
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 46.9310, 34.5599, 98.8049

Background



This preview shows how black text looks on a background with the XYZ color 46.9310, 34.5599, 98.8049.



This preview shows how white text looks on a background with the XYZ color 46.9310, 34.5599,

98.8049.

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

46.9310, 34.5599, 98.8049

Protanopia

37.6842, 34.9900, 99.3753

Deuteranopia

36.0839, 35.0134, 95.2989



Tritanopia

35.2331, 34.5223, 40.8829

Trichromacy



Original Color

46.9310, 34.5599, 98.8049



Protanomaly

40.1415, 34.3291, 99.1182



Deuteranomaly

38.9583, 34.2442, 96.6519



Tritanomaly

38.6034, 33.9821, 57.9507

Monochromacy



Original Color

46.9310, 34.5599, 98.8049



Achromatopsia

34.8123, 36.6253, 39.8849



Achromatomaly

38.2053, 35.2127, 57.0076

CSS Examples

Text

The CSS property to change the color of the text to XYZ 46.9310, 34.5599, 98.8049 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(187, 133, 255)` looks like.

```
.text, #text, p{  
    color:rgb(187, 133, 255)  
}
```

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(187, 133, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 133, 255) }
```

Border

The CSS property to change the border of an element to XYZ 46.9310, 34.5599, 98.8049 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(187, 133, 255) }
```


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

```
.border{ border-color:rgb(187, 133, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 133, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 133, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 133, 255);  
box-shadow:4px 4px 4px 4px rgb(187, 133,  
255) }
```

Background

The CSS property to change the background color of an element to XYZ 46.9310, 34.5599, 98.8049 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 133, 255) }
```

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

```
.background{ background-color: rgb(187,  
133, 255) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor