

Converting Colors

XYZ(12.3195, 8.9549, 46.9785)

Have a look what the booklet for
XYZ(12.3195, 8.9549, 46.9785)
contains.

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Color

**XYZ(12.3324, 8.9812,
46.9825)**

Conversions

Conversions Part 1

Format	Color
Hex	2E4AB9
RGB	46, 74, 185
RGB Percent	18%, 29%, 73%
CMY	0.8196, 0.7098, 0.2745
CMYK	0.75, 0.60, 0.00, 0.27
HSL	228°, 60%, 45%
HSV	228°, 75%, 73%
XYZ	12.3324, 8.9812, 46.9825
YIQ	78.2820, -52.3190, 28.5850

Conversions

Conversions Part 2

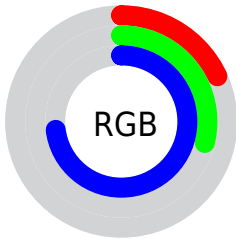
Format	Color
R_{YB}	46, 69, 185
Decimal	3033785
CIE _{Lab}	35.95, 29.21, -61.57
CIE _{LCh}	36, 68.145, 295.385
Yxy	8.9812, 0.1806, 0.1315
Android (android.graphics.Color)	4281223865 (0xFF2E4AB9)
YUV	78.2820, 52.6120, -28.3113
Hunter-Lab	29.9687, 21.0094, -71.9722

Details

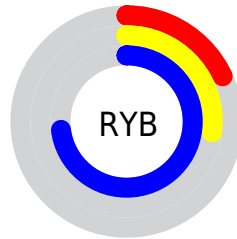
The XYZ color **12.3324, 8.9812, 46.9825** is a dark color, and the websafe version is hex **003399**. A complement of this color would be **32.5594, 34.6285, 7.5535**, and the grayscale version is **7.2061, 7.5814, 8.2561**.

A 20% lighter version of the original color is **29.6686, 23.7746, 87.0297**, and **4.5867, 2.6187, 21.7364** is the 20% darker color. If you saturate the color by 10%, you get **10.7982, 6.8940, 46.6607**, and if you desaturate by 10%, it is **14.4582, 11.7172, 47.3988**.

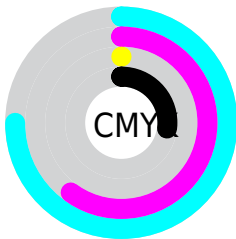
Distribution



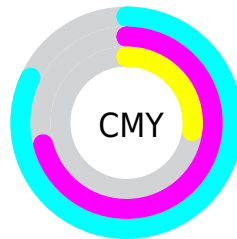
- Red (18%)
- Green (29%)
- Blue (73%)



- Red (18%)
- Yellow (27%)
- Blue (73%)



- Cyan (75%)
- Magenta (60%)
- Yellow (0%)
- Black (27%)



- Cyan (82%)
- Magenta (71%)
- Yellow (27%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3324, 8.9812, 46.9825 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 12.3324, 8.9812, 46.9825 by changing the saturation by 10% instead.

■ 12.3324, 8.9812,
46.9825

■ 12.3324, 8.9812,
46.9825

200.3189,
183.2376, 391.1364

■ 7.0443, 4.7289,
32.6676

■ 29.7107, 23.8607,
87.0372

■ 3.5364, 2.0891,
21.6029

■ 42.5316, 35.2567,
113.6141

■ 1.4434, 0.6585,
13.3699

■ 58.5941, 49.8028,
145.1153

■ 0.2868, 0.0000,
7.5500

■ 78.2637, 67.8833,
181.9595

■ 0.0000, 0.0000,
3.7248

■ 101.9056, 89.8827,
224.5652

■ 0.0000, 0.0000,
1.4756

129.8852,

■ 0.0000, 0.0000,

116.1852, 273.3509

0.1997

162.5678,
147.1754, 328.7351

■ 0.0000, 0.0000,
0.0000

■ 12.3324, 8.9812,
46.9825

■ 12.3324, 8.9812,
46.9825

■ 10.7982, 6.8940,
46.6607

■ 14.4582, 11.7172,
47.3988

■ 9.7874, 5.3961,
46.4249

■ 17.2300, 15.1522,
47.9157

■ 9.4266, 4.8420,
46.3370

■ 20.6975, 19.3320,
48.5398

■ 24.9048, 24.2982,
49.2766

■ 29.8924, 30.0891,
50.1315

■ 35.6977, 36.7406,
51.1094

■ 42.3559, 44.2863,
52.2149

■ 49.8997, 52.7580,
53.4525

■ 58.3605, 62.1861,
54.8264

Harmonies

Analogous

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



7.9245, 8.9812, 53.1656



12.3324, 8.9812, 46.9825



16.6912, 8.9812, 28.7284

Triad

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



12.3324, 8.9812, 46.9825



13.7733, 8.9812, 0.4123



2.8861, 8.9812, 8.0907

Complementary

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



12.3324, 8.9812, 46.9825



32.5594, 34.6285, 7.5535

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.



3.5946, 8.9812, 1.7900



12.3324, 8.9812, 46.9825



9.1790, 8.9812, 0.0000

Square

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



12.3324, 8.9812, 46.9825



17.6911, 8.9812, 2.9919



5.6122, 8.9812, 0.0289



3.2536, 8.9812, 22.8083

Rectangle

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



12.3324, 8.9812, 46.9825



18.5169, 8.9812, 16.5616



5.6122, 8.9812, 0.0289



2.9977, 8.9812, 5.1589

Sweetspot

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



12.3329, 8.9814, 46.9828



55.2534, 55.8662, 90.0757



24.3829, 37.6419, 36.9404



11.1645, 11.1823, 19.2916



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988

Same Dimension

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



12.3329, 8.9814, 46.9828



18.0916, 10.5312, 83.2838



13.5161, 7.4070, 46.6165



8.6637, 9.0046, 11.3609



6.4613, 3.3822, 31.5654



0.2715, 0.2067, 1.1273

Inverse Universe

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



22.2210, 12.7634, 7.7710



37.1851, 19.5351, 7.1867



29.6289, 40.9716, 8.9323



9.0766, 9.0410, 9.7508



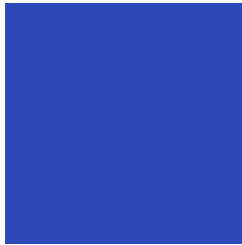
13.8750, 7.1238, 1.9627



0.5112, 0.2600, 0.1855

Previews

White Background



This preview shows how the XYZ color 12.3324, 8.9812, 46.9825 looks on a white background.

Color Contrast Check

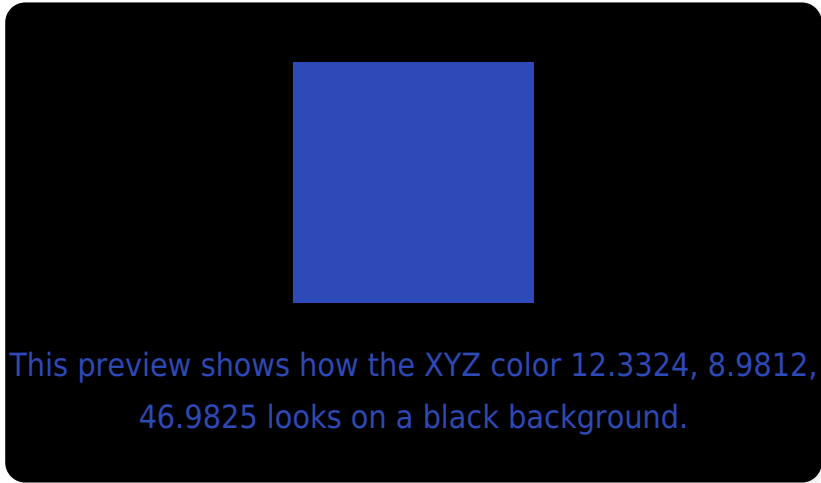
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

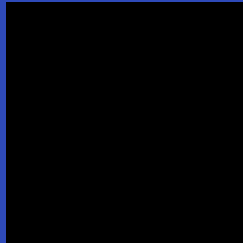
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.3324, 8.9812, 46.9825

Background



This preview shows how black text looks on a background with the XYZ color 12.3324, 8.9812, 46.9825.



This preview shows how white text looks on a background with the XYZ color 12.3324, 8.9812,

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

12.3324, 8.9812, 46.9825

Protanopia

10.3888, 8.8634, 40.1930

Deuteranopia

8.6731, 8.7937, 29.2572



Tritanopia

6.3030, 8.9255, 13.4472

Trichromacy



Original Color

12.3324, 8.9812, 46.9825

Protanomaly

10.8914, 8.7423, 42.7084

Deuteranomaly

9.6815, 8.7270, 34.8924

Tritanomaly

7.7361, 8.5743, 22.7200

Monochromacy



Original Color

12.3324, 8.9812, 46.9825

Achromatopsia

7.2414, 7.6185, 8.2966

Achromatomaly

8.1115, 7.7504, 17.8981

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3324, 8.9812, 46.9825 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(46, 74, 185)` looks like.

```
.text, #text, p{  
    color:rgb(46, 74, 185)  
}
```

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(46, 74, 185) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 74, 185) }
```

Border

The CSS property to change the border of an element to XYZ 12.3324, 8.9812, 46.9825 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(46, 74, 185) }
```


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

```
.border{ border-color:rgb(46, 74, 185) }
```

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

Here you see how a box with a 4 pixel rgb(46, 74, 185) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 74, 185); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 74, 185);  
box-shadow:4px 4px 4px 4px rgb(46, 74,  
185) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3324, 8.9812, 46.9825 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 74, 185) }
```

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

```
.background{ background-color: rgb(46, 74,  
185) }
```

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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