

Converting Colors

XYZ(12.4681, 8.8634, 48.0682)

Have a look what the booklet for
XYZ(12.4681, 8.8634, 48.0682)
contains.

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Color

**XYZ(12.4593, 8.8269,
48.0608)**

Conversions

Conversions Part 1

Format	Color
Hex	2F48BB
RGB	47, 72, 187
RGB Percent	18%, 28%, 73%
CMY	0.8156, 0.7176, 0.2667
CMYK	0.75, 0.61, 0.00, 0.27
HSL	229°, 60%, 46%
HSV	229°, 75%, 73%
XYZ	12.4593, 8.8269, 48.0608
YIQ	77.6350, -51.8150, 30.4650

Conversions

Conversions Part 2

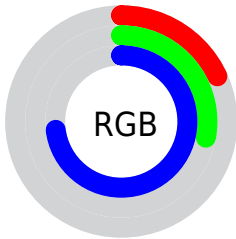
Format	Color
R_{YB}	47, 68, 187
Decimal	3098811
CIE Lab	35.65, 31.37, -63.23
CIE LCh	36, 70.583, 296.386
Yxy	8.8269, 0.1797, 0.1273
Android (android.graphics.Color)	4281288891 (0xFF2F48BB)
YUV	77.6350, 53.9169, -26.8669
Hunter-Lab	29.7101, 22.8635, -75.1139

Details

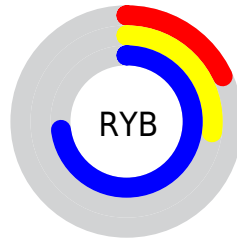
The XYZ color **12.4593, 8.8269, 48.0608** is a dark color, and the websafe version is hex **003399**. A complement of this color would be **33.9293, 36.6149, 7.9696**, and the grayscale version is **7.0825, 7.4513, 8.1145**.

A 20% lighter version of the original color is **29.8557, 23.4753, 88.5456**, and **4.6730, 2.5722, 22.4405** is the 20% darker color. If you saturate the color by 10%, you get **10.9024, 6.7297, 47.7383**, and if you desaturate by 10%, it is **14.6345, 11.6111, 48.4838**.

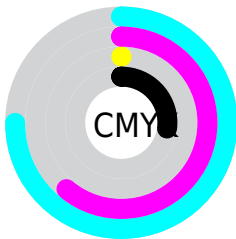
Distribution



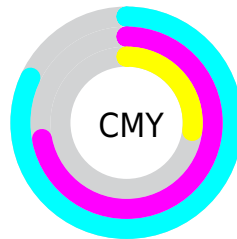
- Red (18%)
- Green (28%)
- Blue (73%)



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



- Cyan (75%)
- Magenta (61%)
- Yellow (0%)
- Black (27%)



- Cyan (82%)
- Magenta (72%)
- Yellow (27%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4593, 8.8269, 48.0608 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 12.4593, 8.8269, 48.0608 by changing the saturation by 10% instead.

■ 12.4593, 8.8269,
48.0608

■ 12.4593, 8.8269,
48.0608

201.1311,
182.0813, 395.5487

■ 7.1317, 4.6284,
33.5147

■ 29.9386, 23.5643,
88.6614

■ 3.5917, 2.0310,
22.2467

■ 42.8209, 34.8720,
115.5530

■ 1.4738, 0.6254,
13.8382

■ 58.9523, 49.3182,
147.3969

■ 0.3079, 0.0000,
7.8708

■ 78.6980, 67.2874,
184.6115

■ 0.0000, 0.0000,
3.9258

■ 102.4234, 89.1639,
227.6155

■ 0.0000, 0.0000,
1.5847

130.4938,

■ 0.0000, 0.0000,

115.3321, 276.8273

0.2799

163.2746,
146.1764, 332.6655

■ 0.0000, 0.0000,
0.0000

■ 12.4593, 8.8269,
48.0608

■ 12.4593, 8.8269,
48.0608

■ 10.9024, 6.7297,
47.7383

■ 14.6345, 11.6111,
48.4838

■ 9.8925, 5.2549,
47.5069

■ 17.4855, 15.1372,
49.0142

■ 9.5242, 4.6968,
47.4186

■ 21.0644, 19.4550,
49.6589

■ 25.4179, 24.6095,
50.4244

■ 30.5885, 30.6424,
51.3163

■ 36.6158, 37.5927,
52.3402

■ 43.5365, 45.4967,
53.5011

■ 51.3856, 54.3891,
54.8038

■ 60.1956, 64.3025,
56.2529

Harmonies

Analogous

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



7.8967, 8.8269, 55.2191



12.4593, 8.8269, 48.0608



16.9443, 8.8269, 28.6258

Triad

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



12.4593, 8.8269, 48.0608



13.6280, 8.8269, 0.1876



2.6799, 8.8269, 8.2413

Complementary

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



12.4593, 8.8269, 48.0608



33.9293, 36.6149, 7.9696

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.



3.3444, 8.8269, 1.6988



12.4593, 8.8269, 48.0608



8.9028, 8.8269, 0.0000

Square

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



12.4593, 8.8269, 48.0608



17.7607, 8.8269, 2.6120



5.3195, 8.8269, 0.0000



3.0793, 8.8269, 23.7656

Rectangle

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



12.4593, 8.8269, 48.0608



18.7807, 8.8269, 16.0561



5.3195, 8.8269, 0.0000



2.7784, 8.8269, 5.1730

Sweetspot

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



12.4598, 8.8271, 48.0611



57.3410, 57.8415, 92.3437



25.4059, 38.7305, 40.0103



12.0167, 12.0304, 20.2313



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

Same Dimension

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



12.4598, 8.8271, 48.0611



18.2321, 10.1937, 85.2080



14.3347, 7.8632, 47.7762



9.1506, 9.4934, 12.0223



6.6007, 3.3131, 32.6845



0.3014, 0.2154, 1.2945

Inverse Universe

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



22.6802, 13.0666, 7.4575



37.9363, 19.9446, 6.5739



29.5544, 41.5564, 9.1539



9.5978, 9.5634, 10.2713



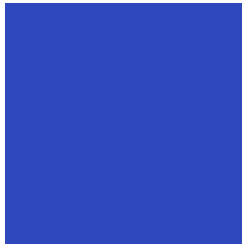
14.3325, 7.3642, 1.7786



0.5830, 0.2971, 0.1835

Previews

White Background



This preview shows how the XYZ color 12.4593, 8.8269, 48.0608 looks on a white background.

Color Contrast Check

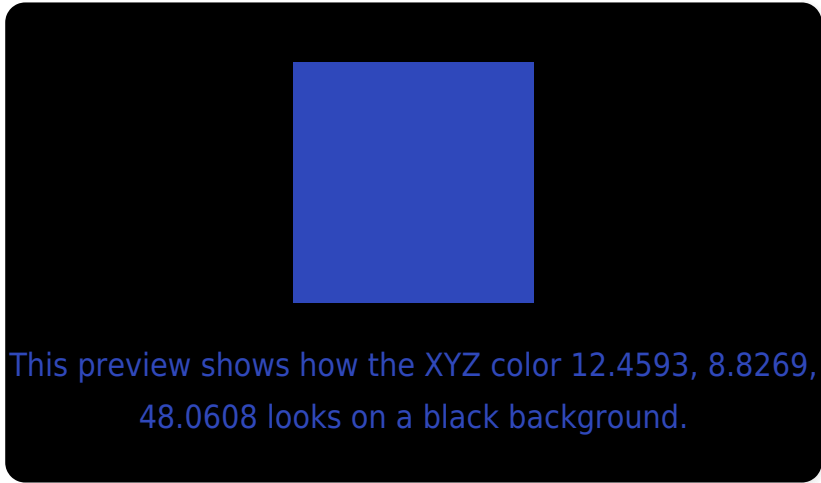
Large Text (above 18pt) WCAG AA ✓ Pass

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

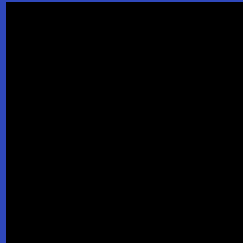
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.4593, 8.8269, 48.0608

Background



This preview shows how black text looks on a background with the XYZ color 12.4593, 8.8269, 48.0608.



This preview shows how white text looks on a background with the XYZ color 12.4593, 8.8269,

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

12.4593, 8.8269, 48.0608

Protanopia

10.1244, 8.6396, 39.1642

Deuteranopia

8.5161, 8.7309, 28.4305



Tritanopia

6.1665, 8.7296, 13.1643

Trichromacy



Original Color

12.4593, 8.8269, 48.0608

Protanomaly

10.7215, 8.5615, 42.1617

Deuteranomaly

9.6066, 8.5772, 34.8675

Tritanomaly

7.5764, 8.2549, 22.6668

Monochromacy



Original Color

12.4593, 8.8269, 48.0608

Achromatopsia

7.2414, 7.6185, 8.2966

Achromatomaly

8.1692, 7.6702, 18.1895

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4593, 8.8269, 48.0608 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(47, 72, 187)` looks like.

```
.text, #text, p{  
    color:rgb(47, 72, 187)  
}
```

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(47, 72, 187) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 72, 187) }
```

Border

The CSS property to change the border of an element to XYZ 12.4593, 8.8269, 48.0608 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(47, 72, 187) }
```


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

```
.border{ border-color:rgb(47, 72, 187) }
```

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

Here you see how a box with a 4 pixel rgb(47, 72, 187) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 72, 187); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 72, 187);  
box-shadow:4px 4px 4px 4px rgb(47, 72,  
187) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4593, 8.8269, 48.0608 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 72, 187) }
```

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

```
.background{ background-color: rgb(47, 72,  
187) }
```

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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