

Converting Colors

XYZ(12.4584, 8.0733, 46.0888)

Have a look what the booklet for
XYZ(12.4584, 8.0733, 46.0888)
contains.

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Color

**XYZ(12.4791, 8.0725,
46.2478)**

Conversions

Conversions Part 1

Format	Color
Hex	3F3FB8
RGB	63, 63, 184
RGB Percent	25%, 25%, 72%
CMY	0.7529, 0.7529, 0.2784
CMYK	0.66, 0.66, 0.00, 0.28
HSL	240°, 49%, 48%
HSV	240°, 66%, 72%
XYZ	12.4791, 8.0725, 46.2478
YIQ	76.7940, -38.8410, 37.6310

Conversions

Conversions Part 2

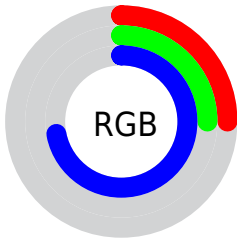
Format	Color
R_{YB}	63, 63, 184
Decimal	4145080
CIE _{Lab}	34.13, 38.04, -63.90
CIE _{LCh}	34, 74.366, 300.761
Yxy	8.0725, 0.1868, 0.1208
Android (android.graphics.Color)	4282335160 (0xFF3F3FB8)
YUV	76.7940, 52.8526, -12.0973
Hunter-Lab	28.4121, 28.6790, -76.6207

Details

The XYZ color **12.4791, 8.0725, 46.2478** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **37.8036, 44.8297, 11.3632**, and the grayscale version is **6.9267, 7.2874, 7.9360**.

A 20% lighter version of the original color is **29.8738, 22.0048, 85.8919**, and **4.2794, 2.1120, 21.3012** is the 20% darker color. If you saturate the color by 10%, you get **10.6399, 5.8561, 45.9171**, and if you desaturate by 10%, it is **15.0522, 11.1725, 46.7108**.

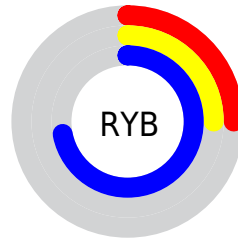
Distribution



Red (25%)

Green (25%)

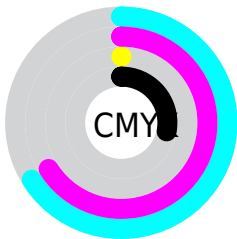
Blue (72%)



Red (25%)

Yellow (25%)

Blue (72%)

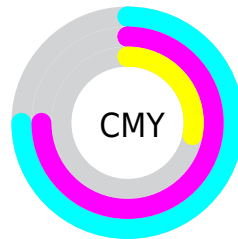


Cyan (66%)

Magenta (66%)

Yellow (0%)

Black (28%)



Cyan (75%)

Magenta (75%)

Yellow (28%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4791, 8.0725, 46.2478 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 12.4791, 8.0725, 46.2478 by changing the saturation by 10% instead.

■ 12.4791, 8.0725,
46.2478

■ 12.4791, 8.0725,
46.2478

201.2576,
176.2996, 388.1105

■ 7.1454, 4.1414,
32.0913

■ 29.9741, 22.1004,
85.9279

■ 3.6003, 1.7530,
21.1659

■ 42.8660, 32.9661,
112.2886

■ 1.4786, 0.4576,
13.0529

■ 59.0081, 46.9120,
143.5545

■ 0.3112, 0.0000,
7.3338

■ 78.7656, 64.3225,
180.1442

■ 0.0000, 0.0000,
3.5901

■ 102.5040, 85.5822,
222.4760

■ 0.0000, 0.0000,
1.4033

■ 130.5885,

■ 0.0000, 0.0000,

111.0753, 270.9687

0.1443

163.3846,
141.1863, 326.0406

■ 0.0000, 0.0000,
0.0000

■ 12.4791, 8.0725,
46.2478

■ 12.4791, 8.0725,
46.2478

■ 10.6399, 5.8561,
45.9171

■ 15.0522, 11.1725,
46.7108

■ 9.4569, 4.4307,
45.7044

■ 18.4237, 15.2349,
47.3172

■ 8.8342, 3.6804,
45.5924

■ 22.6527, 20.3306,
48.0779

■ 8.6519, 3.4608,
45.5596

■ 27.7922, 26.5234,
49.0023

■ 33.8911, 33.8722,
50.0993

■ 40.9946, 42.4316,
51.3771

■ 49.1452, 52.2528,
52.8432

■ 58.3830, 63.3838,
54.5048

■ 68.7457, 75.8705,
56.3688

Harmonies

Analogous

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



7.7784, 8.0725, 56.5842



12.4791, 8.0725, 46.2478



16.8682, 8.0725, 25.1796

Triad

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



12.4791, 8.0725, 46.2478



12.2287, 8.0725, 0.0000



2.1649, 8.0725, 9.0944

Complementary

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



12.4791, 8.0725, 46.2478



37.8036, 44.8297, 11.3632

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.



2.6284, 8.0725, 1.7129



12.4791, 8.0725, 46.2478



7.5679, 8.0725, 0.0000

Square

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



12.4791, 8.0725, 46.2478



16.6909, 8.0725, 1.5433



4.2925, 8.0725, 0.0000



2.6803, 8.0725, 26.2474

Rectangle

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



12.4791, 8.0725, 46.2478



18.4478, 8.0725, 12.9581



4.2925, 8.0725, 0.0000



2.2091, 8.0725, 5.6273

Sweetspot

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



12.4796, 8.0727, 46.2480



56.1587, 55.0429, 89.8691



27.8422, 38.7986, 51.3690



11.4525, 11.0779, 19.2562



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.



12.4796, 8.0727, 46.2480



18.1712, 9.2705, 83.0363



18.6694, 11.2637, 46.5377



8.5212, 8.7195, 11.3134



5.9628, 2.3851, 31.3992



0.2102, 0.0841, 1.1069

Inverse Universe

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



30.1959, 17.2059, 47.0740



52.6708, 27.0558, 84.6438



26.2779, 38.8880, 10.8238



9.3810, 9.1628, 11.3535



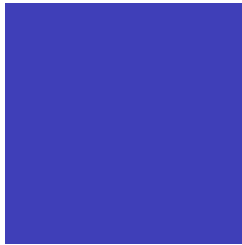
19.5855, 9.4079, 32.0334



0.6904, 0.3317, 1.1293

Previews

White Background



This preview shows how the XYZ color 12.4791, 8.0725, 46.2478 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



This preview shows how the XYZ color 12.4791, 8.0725, 46.2478 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

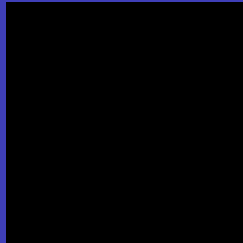
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.4791, 8.0725, 46.2478

Background



This preview shows how black text looks on a background with the XYZ color 12.4791, 8.0725, 46.2478.



This preview shows how white text looks on a background with the XYZ color 12.4791, 8.0725,

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

12.4791, 8.0725, 46.2478

Protanopia

9.2647, 7.9521, 35.6969

Deuteranopia

7.7509, 7.9280, 25.9327



Tritanopia

5.6837, 7.9893, 12.3089

Trichromacy



Original Color

12.4791, 8.0725, 46.2478

Protanomaly

10.0214, 7.7572, 39.4972

Deuteranomaly

8.8702, 7.6146, 32.4547

Tritanomaly

7.1183, 7.4780, 21.4903

Monochromacy



Original Color

12.4791, 8.0725, 46.2478

Achromatopsia

7.0540, 7.4214, 8.0819

Achromatomaly

8.1422, 7.2734, 17.4978

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4791, 8.0725, 46.2478 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(63, 63, 184)` looks like.

```
.text, #text, p{  
    color:rgb(63, 63, 184)  
}
```

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(63, 63, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 63, 184) }
```

Border

The CSS property to change the border of an element to XYZ 12.4791, 8.0725, 46.2478 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(63, 63, 184) }
```


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

```
.border{ border-color:rgb(63, 63, 184) }
```

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

Here you see how a box with a 4 pixel `rgb(63, 63, 184)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 63, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 63, 184);  
box-shadow:4px 4px 4px 4px rgb(63, 63,  
184) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4791, 8.0725, 46.2478 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 63, 184) }
```

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

```
.background{ background-color: rgb(63, 63,  
184) }
```

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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