

Converting Colors

XYZ(12.2783, 9.0897, 39.9572)

Have a look what the booklet for
XYZ(12.2783, 9.0897, 39.9572)
contains.

XYZ(12.3494, 9.1413, 40.1433)	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(12.3494, 9.1413,
40.1433)**

Conversions

Conversions Part 1

Format	Color
Hex	454AAC
RGB	69, 74, 172
RGB Percent	27%, 29%, 67%
CMY	0.7294, 0.7098, 0.3255
CMYK	0.60, 0.57, 0.00, 0.33
HSL	237°, 43%, 47%
HSV	237°, 60%, 67%
XYZ	12.3494, 9.1413, 40.1433
YIQ	83.6770, -34.4380, 29.4180

Conversions

Conversions Part 2

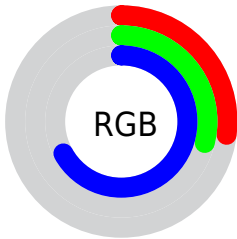
Format	Color
R _Y B	69, 74, 172
Decimal	4541100
CIE Lab	36.25, 28.01, -53.32
CIE LCh	36, 60.224, 297.713
Yxy	9.1413, 0.2004, 0.1483
Android (android.graphics.Color)	4282731180 (0xFF454AAC)
YUV	83.6770, 43.5432, -12.8717
Hunter-Lab	30.2346, 19.9983, -57.5568

Details

The XYZ color **12.3494, 9.1413, 40.1433** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **31.9074, 36.8398, 11.0602**, and the grayscale version is **8.2793, 8.7105, 9.4857**.

A 20% lighter version of the original color is **29.6907, 24.2030, 76.5056**, and **3.7940, 2.2605, 17.6891** is the 20% darker color. If you saturate the color by 10%, you get **10.3473, 6.6929, 39.7764**, and if you desaturate by 10%, it is **14.9902, 12.3410, 40.6219**.

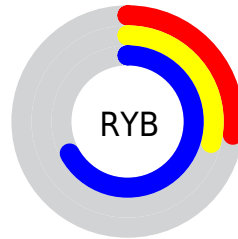
Distribution



Red (27%)

Green (29%)

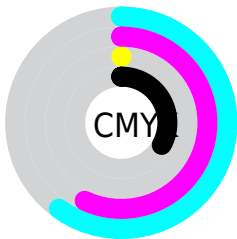
Blue (67%)



Red (27%)

Yellow (29%)

Blue (67%)

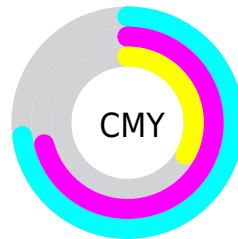


Cyan (60%)

Magenta (57%)

Yellow (0%)

Black (33%)



Cyan (73%)

Magenta (71%)

Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3494, 9.1413, 40.1433 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 12.3494, 9.1413, 40.1433 by changing the saturation by 10% instead.

■ 12.3494, 9.1413,
40.1433

■ 12.3494, 9.1413,
40.1433

200.4279,
184.4285, 362.2972

■ 7.0560, 4.8335,
27.3357

■ 29.7413, 24.1673,
76.6212

■ 3.5438, 2.1499,
17.5908

■ 42.5704, 35.6543,
101.1284

■ 1.4474, 0.6925,
10.4902

■ 58.6422, 50.3031,
130.3727

■ 0.2896, 0.0000,
5.6153

■ 78.3219, 68.4982,
164.7724

■ 0.0000, 0.0000,
2.5477

■ 101.9750, 90.6238,
204.7462

■ 0.0000, 0.0000,
0.8652

129.9668,

■ 0.0000, 0.0000,

117.0645, 250.7126

0.0000

162.6627,
148.2046, 303.0901

■ 12.3494, 9.1413,
40.1433

■ 12.3494, 9.1413,
40.1433

■ 10.3473, 6.6929,
39.7764

■ 14.9902, 12.3410,
40.6219

■ 8.9285, 4.9335,
39.5116

■ 18.3164, 16.3458,
41.2196

■ 8.0305, 3.7926,
39.3388

■ 22.3715, 21.2053,
41.9439

■ 7.5417, 3.1652,
39.2434

■ 27.1954, 26.9651,
42.8014

■ 7.5370, 3.1597,
39.2426

■ 32.8249, 33.6675,
43.7984

■ 39.2946, 41.3520,
44.9406

■ 46.6368, 50.0561,
46.2337

■ 54.8824, 59.8151,
47.6828

■ 64.0606, 70.6626,
49.2929

Harmonies

Analogous

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



8.4134, 9.1413, 46.1846



12.3494, 9.1413, 40.1433



16.0126, 9.1413, 24.8751

Triad

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



12.3494, 9.1413, 40.1433



12.9683, 9.1413, 0.8107



3.4195, 9.1413, 9.1780

Complementary

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



12.3494, 9.1413, 40.1433



31.9074, 36.8398, 11.0602

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.



4.0281, 9.1413, 2.6453



12.3494, 9.1413, 40.1433



8.9696, 9.1413, 0.1630

Square

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



12.3494, 9.1413, 40.1433



16.4343, 9.1413, 3.2575



5.8337, 9.1413, 0.6427



3.8638, 9.1413, 22.4203

Rectangle

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



12.3494, 9.1413, 40.1433



17.4324, 9.1413, 14.8338



5.8337, 9.1413, 0.6427



3.5029, 9.1413, 6.2813

Sweetspot

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



12.3498, 9.1416, 40.1435



50.8299, 50.6988, 77.9126



24.1685, 33.5551, 41.6899



10.4632, 10.3226, 16.8287



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



12.3498, 9.1416, 40.1435



17.7802, 10.9191, 71.9762



16.6916, 10.9043, 40.2549



7.6089, 7.8172, 10.0605



5.6205, 2.3749, 29.2067



0.1662, 0.0858, 0.8158

Inverse Universe

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



20.3778, 13.5220, 8.0146



33.7595, 19.8984, 7.9669



24.3800, 34.3442, 10.9752



8.0204, 8.0214, 8.4183



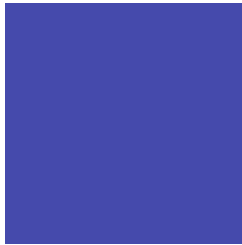
12.7006, 6.5428, 0.8030



0.3583, 0.1840, 0.0486

Previews

White Background



This preview shows how the XYZ color 12.3494, 9.1413, 40.1433 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 12.3494, 9.1413, 40.1433 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

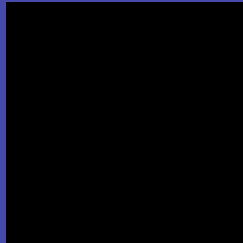
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.3494, 9.1413, 40.1433

Background



This preview shows how black text looks on a background with the XYZ color 12.3494, 9.1413, 40.1433.



This preview shows how white text looks on a background with the XYZ color 12.3494, 9.1413,

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

12.3494, 9.1413, 40.1433

Protanopia

10.6573, 9.0906, 41.2374

Deuteranopia

8.9941, 9.0508, 30.5511



Tritanopia

6.9422, 9.1239, 13.4518

Trichromacy



Original Color

12.3494, 9.1413, 40.1433

Protanomaly

10.7397, 8.8158, 40.6707

Deuteranomaly

9.6762, 8.7445, 33.9787

Tritanomaly

8.3126, 8.7903, 20.9972

Monochromacy



Original Color

12.3494, 9.1413, 40.1433

Achromatopsia

8.4267, 8.8656, 9.6546

Achromatomaly

9.2455, 8.6605, 17.7074

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3494, 9.1413, 40.1433 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(69, 74, 172)` looks like.

```
.text, #text, p{  
    color:rgb(69, 74, 172)  
}
```

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(69, 74, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 74, 172) }
```

Border

The CSS property to change the border of an element to XYZ 12.3494, 9.1413, 40.1433 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(69, 74, 172) }
```


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

```
.border{ border-color:rgb(69, 74, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 74, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 74, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 74, 172);  
box-shadow:4px 4px 4px 4px rgb(69, 74,  
172) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3494, 9.1413, 40.1433 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 74, 172) }
```

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

```
.background{ background-color: rgb(69, 74,  
172) }
```

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