

Converting Colors

XYZ(12.8713, 9.2116, 42.6922)

Have a look what the booklet for
XYZ(12.8713, 9.2116, 42.6922)
contains.

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Color

**XYZ(12.9169, 9.2790,
42.7052)**

Conversions

Conversions Part 1

Format	Color
Hex	4749B1
RGB	71, 73, 177
RGB Percent	28%, 29%, 69%
CMY	0.7215, 0.7137, 0.3059
CMYK	0.60, 0.59, 0.00, 0.31
HSL	239°, 43%, 49%
HSV	239°, 60%, 69%
XYZ	12.9169, 9.2790, 42.7052
YIQ	84.2580, -34.5760, 31.9200

Conversions

Conversions Part 2

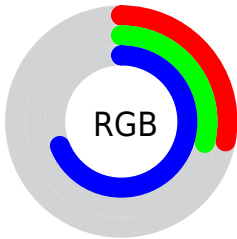
Format	Color
R _Y B	71, 73, 177
Decimal	4671921
CIE Lab	36.52, 30.70, -55.85
CIE LCh	37, 63.736, 298.798
Yxy	9.2790, 0.1990, 0.1430
Android (android.graphics.Color)	4282862001 (0xFF4749B1)
YUV	84.2580, 45.7218, -11.6273
Hunter-Lab	30.4615, 22.3838, -61.7981

Details

The XYZ color **12.9169, 9.2790, 42.7052** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **34.6002, 40.4644, 11.9490**, and the grayscale version is **8.3941, 8.8313, 9.6173**.

A 20% lighter version of the original color is **30.7208, 24.4694, 80.1947**, and **4.0145, 2.3088, 18.9729** is the 20% darker color. If you saturate the color by 10%, you get **10.8166, 6.7325, 42.3246**, and if you desaturate by 10%, it is **15.7147, 12.6581, 43.2102**.

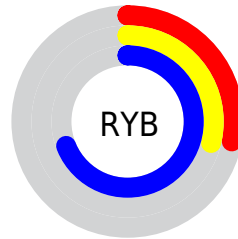
Distribution



 Red (28%)

 Green (29%)

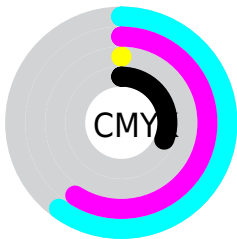
 Blue (69%)




 Red (28%)

 Yellow (29%)

 Blue (69%)

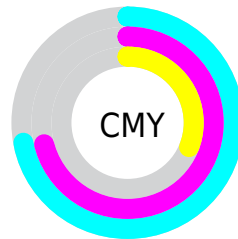


 Cyan (60%)

 Magenta (59%)

 Yellow (0%)

 Black (31%)



 Cyan (72%)

 Magenta (71%)

 Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9169, 9.2790, 42.7052 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 12.9169, 9.2790, 42.7052 by changing the saturation by 10% instead.

■ 12.9169, 9.2790,
42.7052

■ 12.9169, 9.2790,
42.7052

204.0328,
185.4458, 373.2835

■ 7.4480, 4.9236,
29.3242

■ 30.7570, 24.4302,
80.5474

■ 3.7926, 2.2025,
19.0785

■ 43.8589, 35.9949,
105.8456

■ 1.5855, 0.7214,
11.5496

■ 60.2357, 50.7314,
135.9534

■ 0.3829, 0.0000,
6.3190

■ 80.2530, 69.0242,
171.2892

■ 0.0000, 0.0000,
2.9681

■ 104.2760, 91.2576,
212.2716

■ 0.0000, 0.0000,
1.0784

132.6700,

■ 0.0000, 0.0000,

117.8161, 259.3190

0.0000

165.8005,
149.0840, 312.8502

■ 12.9169, 9.2790,
42.7052

■ 12.9169, 9.2790,
42.7052

■ 10.8166, 6.7325,
42.3246

■ 15.7147, 12.6581,
43.2102

■ 9.3514, 4.9457,
42.0569

■ 19.2626, 16.9326,
43.8483

■ 8.4499, 3.8347,
41.8900

■ 23.6098, 22.1602,
44.6282

■ 7.9768, 3.2523,
41.8025

■ 28.8007, 28.3936,
45.5577

■ 7.9720, 3.2466,
41.8017

■ 34.8767, 35.6816,
46.6442

■ 41.8764, 44.0698,
47.8944

■ 49.8359, 53.6013,
49.3146

■ 58.7898, 64.3166,
50.9110

■ 68.7705, 76.2545,
52.6892

Harmonies

Analogous

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



8.6640, 9.2790, 49.9678



12.9169, 9.2790, 42.7052



16.8494, 9.2790, 25.6771

Triad

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



12.9169, 9.2790, 42.7052



13.2692, 9.2790, 0.5902



3.2712, 9.2790, 9.6622

Complementary

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



12.9169, 9.2790, 42.7052



34.6002, 40.4644, 11.9490

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.



3.8587, 9.2790, 2.5909



12.9169, 9.2790, 42.7052



8.9766, 9.2790, 0.0000

Square

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



12.9169, 9.2790, 42.7052



17.0912, 9.2790, 2.9166



5.6954, 9.2790, 0.4967



3.7693, 9.2790, 24.2601

Rectangle

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



12.9169, 9.2790, 42.7052



18.3316, 9.2790, 14.8408



5.6954, 9.2790, 0.4967



3.3442, 9.2790, 6.4993

Sweetspot

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



12.9174, 9.2793, 42.7055



53.1892, 52.7818, 81.8798



25.9093, 35.8195, 45.3209



10.9031, 10.6899, 17.6330



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

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



12.9174, 9.2793, 42.7055



18.3733, 10.8422, 75.6197



18.0005, 11.7083, 42.9064



8.0544, 8.2549, 10.6752



5.7810, 2.3624, 30.2883



0.1861, 0.0828, 0.9544

Inverse Universe

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



21.5878, 14.3354, 7.9326



35.3452, 20.8463, 7.5293



25.6922, 36.4528, 11.6442



8.5026, 8.5078, 8.8793



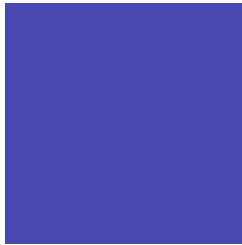
13.1526, 6.7786, 0.6979



0.4160, 0.2141, 0.0332

Previews

White Background



This preview shows how the XYZ color 12.9169, 9.2790, 42.7052 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 12.9169, 9.2790, 42.7052 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

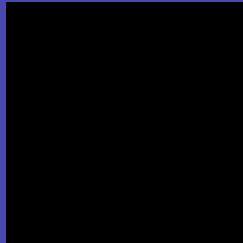
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9169, 9.2790, 42.7052

Background



This preview shows how black text looks on a background with the XYZ color 12.9169, 9.2790, 42.7052.

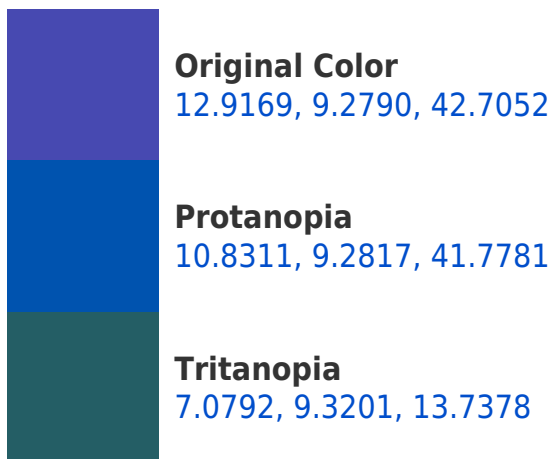


This preview shows how white text looks on a background with the XYZ color 12.9169, 9.2790,

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



Trichromacy



Original Color

12.9169, 9.2790, 42.7052

Protanomaly

11.0585, 8.9462, 42.2182

Tritanomaly

8.5569, 8.8935, 22.0345

Monochromacy



Original Color

12.9169, 9.2790, 42.7052

Achromatopsia

8.4267, 8.8656, 9.6546

Achromatomaly

9.3631, 8.7076, 18.3268

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9169, 9.2790, 42.7052 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(71, 73, 177)` looks like.

```
.text, #text, p{  
    color:rgb(71, 73, 177)  
}
```

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(71, 73, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 73, 177) }
```

Border

The CSS property to change the border of an element to XYZ 12.9169, 9.2790, 42.7052 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(71, 73, 177) }
```

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

```
.border{ border-color:rgb(71, 73, 177) }
```

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

Here you see how a box with a 4 pixel rgb(71, 73, 177) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 73, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 73, 177);  
box-shadow:4px 4px 4px 4px rgb(71, 73,  
177) }
```


Background

The CSS property to change the background color of an element to XYZ 12.9169, 9.2790, 42.7052 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 73, 177) }
```

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

```
.background{ background-color: rgb(71, 73,  
177) }
```

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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