

Converting Colors

XYZ(12.1347, 8.4922, 42.0483)

Have a look what the booklet for
XYZ(12.1347, 8.4922, 42.0483)
contains.

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Color

**XYZ(12.1446, 8.5147,
42.0777)**

Conversions

Conversions Part 1

Format	Color
Hex	4145B0
RGB	65, 69, 176
RGB Percent	25%, 27%, 69%
CMY	0.7451, 0.7294, 0.3098
CMYK	0.63, 0.61, 0.00, 0.31
HSL	238°, 46%, 47%
HSV	238°, 63%, 69%
XYZ	12.1446, 8.5147, 42.0777
YIQ	80.0020, -36.7310, 32.4290

Conversions

Conversions Part 2

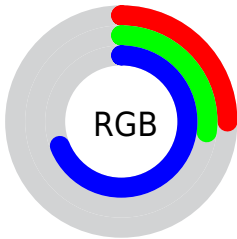
Format	Color
R_{YB}	65, 69, 176
Decimal	4277680
CIE _{Lab}	35.03, 31.87, -57.69
CIE _{LCh}	35, 65.908, 298.916
Yxy	8.5147, 0.1936, 0.1357
Android (android.graphics.Color)	4282467760 (0xFF4145B0)
YUV	80.0020, 47.3270, -13.1568
Hunter-Lab	29.1800, 23.2262, -65.0706

Details

The XYZ color **12.1446, 8.5147, 42.0777** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **33.6126, 39.1193, 10.7812**, and the grayscale version is **7.5419, 7.9347, 8.6408**.

A 20% lighter version of the original color is **29.2390, 22.8339, 79.2102**, and **3.8822, 2.1439, 18.6216** is the 20% darker color. If you saturate the color by 10%, you get **10.2571, 6.2076, 41.7321**, and if you desaturate by 10%, it is **14.6943, 11.6061, 42.5402**.

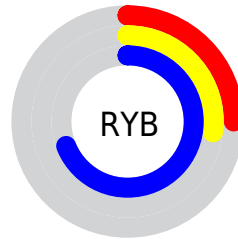
Distribution



Red (25%)

Green (27%)

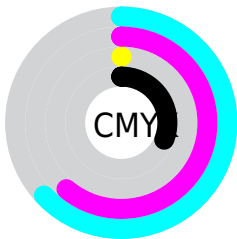
Blue (69%)



Red (25%)

Yellow (27%)

Blue (69%)

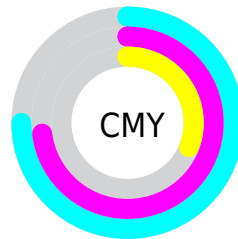


Cyan (63%)

Magenta (61%)

Yellow (0%)

Black (31%)



Cyan (75%)

Magenta (73%)

Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.1446, 8.5147, 42.0777 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 12.1446, 8.5147, 42.0777 by changing the saturation by 10% instead.

■ 12.1446, 8.5147,
42.0777

■ 12.1446, 8.5147,
42.0777

199.1107,
179.7151, 370.6141

■ 6.9151, 4.4260,
28.8361

■ 29.3728, 22.9615,
79.5886

■ 3.4549, 1.9146,
18.7124

■ 42.1022, 34.0883,
104.6949

■ 1.3987, 0.5571,
11.2879

■ 58.0623, 48.3300,
134.5933

■ 0.2553, 0.0000,
6.1442

■ 77.6184, 66.0710,
169.7022

■ 0.0000, 0.0000,
2.8628

■ 101.1360, 87.6956,
210.4402

■ 0.0000, 0.0000,
1.0250

128.9803,

■ 0.0000, 0.0000,

113.5882, 257.2258

0.0000

161.5168,
144.1333, 310.4776

■ 12.1446, 8.5147,
42.0777

■ 12.1446, 8.5147,
42.0777

■ 10.2571, 6.2076,
41.7321

■ 14.6943, 11.6061,
42.5402

■ 8.9693, 4.6137,
41.4923

■ 17.9585, 15.5430,
43.1281

■ 8.2090, 3.6501,
41.3464

■ 21.9859, 20.3816,
43.8498

■ 7.9053, 3.2721,
41.2894

■ 26.8205, 26.1728,
44.7128

■ 32.5028, 32.9639,
45.7241

■ 39.0707, 40.7989,
46.8902

■ 46.5600, 49.7193,
48.2173

■ 55.0041, 59.7642,
49.7111

■ 64.4352, 70.9709,
51.3772

Harmonies

Analogous

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



7.9561, 8.5147, 49.5954



12.1446, 8.5147, 42.0777



16.0583, 8.5147, 24.7234

Triad

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



12.1446, 8.5147, 42.0777



12.4597, 8.5147, 0.2767



2.7810, 8.5147, 8.8825

Complementary

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



12.1446, 8.5147, 42.0777



33.6126, 39.1193, 10.7812

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.



3.3249, 8.5147, 2.1383



12.1446, 8.5147, 42.0777



8.2314, 8.5147, 0.0000

Square

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



12.1446, 8.5147, 42.0777



16.2766, 8.5147, 2.4055



5.0605, 8.5147, 0.1895



3.2494, 8.5147, 23.4338

Rectangle

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



12.1446, 8.5147, 42.0777



17.5366, 8.5147, 13.8807



5.0605, 8.5147, 0.1895



2.8475, 8.5147, 5.8149

Sweetspot

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



12.1450, 8.5149, 42.0779



52.3060, 51.8490, 81.7463



25.0042, 35.0942, 43.7101



10.7366, 10.5203, 17.6091



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.



12.1450, 8.5149, 42.0779



17.4806, 9.8753, 75.4801



16.7913, 10.5576, 42.2273



8.0657, 8.2775, 10.6789



5.8095, 2.4194, 30.2978



0.1909, 0.0923, 0.9560

Inverse Universe

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



20.8694, 13.4411, 7.1247



34.6948, 19.8211, 6.4627



25.0917, 35.8722, 10.6035



8.5083, 8.5101, 8.9094



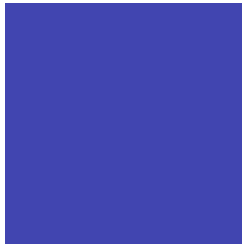
13.1670, 6.7844, 0.7736



0.4184, 0.2151, 0.0458

Previews

White Background



This preview shows how the XYZ color 12.1446, 8.5147, 42.0777 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 12.1446, 8.5147, 42.0777 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

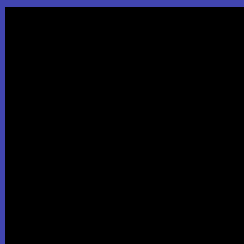
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.1446, 8.5147, 42.0777

Background



This preview shows how black text looks on a background with the XYZ color 12.1446, 8.5147, 42.0777.



This preview shows how white text looks on a background with the XYZ color 12.1446, 8.5147,

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

12.1446, 8.5147, 42.0777

Protanopia

9.8639, 8.4191, 38.1510

Deuteranopia

8.2812, 8.3850, 27.9701



Tritanopia

6.1951, 8.4926, 12.8680

Trichromacy



Original Color

12.1446, 8.5147, 42.0777

Protanomaly

10.2435, 8.1666, 39.5645

Deuteranomaly

9.1734, 8.1865, 32.5491

Tritanomaly

7.5523, 8.0502, 20.8945

Monochromacy



Original Color

12.1446, 8.5147, 42.0777

Achromatopsia

7.6249, 8.0220, 8.7359

Achromatomaly

8.5806, 7.9025, 17.2928

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.1446, 8.5147, 42.0777 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(65, 69, 176)` looks like.

```
.text, #text, p{  
    color:rgb(65, 69, 176)  
}
```

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(65, 69, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 69, 176) }
```

Border

The CSS property to change the border of an element to XYZ 12.1446, 8.5147, 42.0777 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(65, 69, 176) }
```


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

```
.border{ border-color:rgb(65, 69, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(65, 69, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 69, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 69, 176);  
box-shadow:4px 4px 4px 4px rgb(65, 69,  
176) }
```

Background

The CSS property to change the background color of an element to XYZ 12.1446, 8.5147, 42.0777 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 69, 176) }
```

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

```
.background{ background-color: rgb(65, 69,  
176) }
```

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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