

Converting Colors

XYZ(12.3250, 9.9919, 42.3539)

Have a look what the booklet for
XYZ(12.3250, 9.9919, 42.3539)
contains.

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Color

**XYZ(12.3459, 10.0512,
42.3637)**

Conversions

Conversions Part 1

Format	Color
Hex	3453B0
RGB	52, 83, 176
RGB Percent	20%, 33%, 69%
CMY	0.7961, 0.6745, 0.3098
CMYK	0.70, 0.53, 0.00, 0.31
HSL	225°, 54%, 45%
HSV	225°, 70%, 69%
XYZ	12.3459, 10.0512, 42.3637
YIQ	84.3330, -48.3290, 22.3510

Conversions

Conversions Part 2

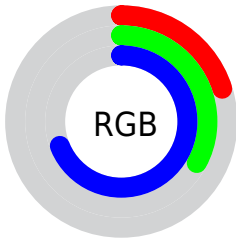
Format	Color
RYB	52, 77, 176
Decimal	3429296
CIELab	37.93, 20.75, -53.02
CIElCh	38, 56.932, 291.370
Yxy	10.0512, 0.1906, 0.1552
Android (android.graphics.Color)	4281619376 (0xFF3453B0)
YUV	84.3330, 45.1918, -28.3560
Hunter-Lab	31.7036, 14.0294, -57.0332

Details

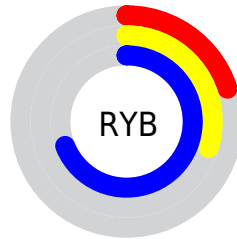
The XYZ color **12.3459, 10.0512, 42.3637** is a dark color, and the websafe version is hex **3366CC**. A complement of this color would be **28.6511, 29.7311, 7.4783**, and the grayscale version is **8.4128, 8.8509, 9.6387**.

A 20% lighter version of the original color is **29.6268, 25.8394, 79.7699**, and **4.3007, 2.8811, 19.0683** is the 20% darker color. If you saturate the color by 10%, you get **10.6874, 7.8370, 42.0240**, and if you desaturate by 10%, it is **14.5353, 12.8247, 42.7839**.

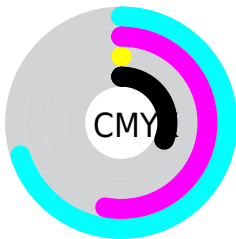
Distribution



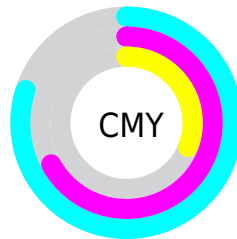
- Red (20%)
- Green (33%)
- Blue (69%)



- Red (20%)
- Yellow (30%)
- Blue (69%)



- Cyan (70%)
- Magenta (53%)
- Yellow (0%)
- Black (31%)



- Cyan (80%)
- Magenta (67%)
- Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3459, 10.0512, 42.3637 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 12.3459, 10.0512, 42.3637 by changing the saturation by 10% instead.

■ 12.3459, 10.0512,
42.3637

■ 12.3459, 10.0512,
42.3637

200.4055,
191.0371, 371.8324

■ 7.0536, 5.4329,
29.0585

■ 29.7350, 25.8918,
80.0258

■ 3.5423, 2.5034,
18.8791

■ 42.5624, 37.8828,
105.2198

■ 1.4466, 0.8784,
11.4070

■ 58.6323, 53.1003,
135.2137

■ 0.2891, 0.0000,
6.2237

■ 78.3100, 71.9285,
170.4262

■ 0.0000, 0.0000,
2.9106

■ 101.9607, 94.7519,
211.2758

■ 0.0000, 0.0000,
1.0492

129.9500,

■ 0.0000, 0.0000,

121.9549, 258.1810

0.0000

162.6431,
153.9218, 311.5604

■ 12.3459, 10.0512,
42.3637

■ 12.3459, 10.0512,
42.3637

■ 10.6874, 7.8370,
42.0240

■ 14.5353, 12.8247,
42.7839

■ 9.5076, 6.1388,
41.7584

■ 17.2980, 16.1941,
43.2886

■ 8.7370, 4.9355,
41.5667

■ 20.6734, 20.1938,
43.8828

■ 24.6969, 24.8550,
44.5704

■ 29.4011, 30.2070,
45.3555

■ 34.8165, 36.2769,
46.2417

■ 40.9714, 43.0907,
47.2325

■ 47.8929, 50.6729,
48.3312

■ 55.6064, 59.0468,
49.5410

Harmonies

Analogous

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



8.5384, 10.0512, 45.2739



12.3459, 10.0512, 42.3637



16.1521, 10.0512, 28.9002

Triad

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



12.3459, 10.0512, 42.3637



14.6391, 10.0512, 1.5542



4.1587, 10.0512, 8.1964

Complementary

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



12.3459, 10.0512, 42.3637



28.6511, 29.7311, 7.4783

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.



5.0525, 10.0512, 2.5805



12.3459, 10.0512, 42.3637



10.6457, 10.0512, 0.6374

Square

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



12.3459, 10.0512, 42.3637



17.6934, 10.0512, 5.1320



7.2173, 10.0512, 0.8660



4.3945, 10.0512, 20.0242

Rectangle

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



12.3459, 10.0512, 42.3637



17.8671, 10.0512, 18.7032



7.2173, 10.0512, 0.8660



4.3265, 10.0512, 5.6967

Sweetspot

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



12.3464, 10.0515, 42.3640



52.4883, 53.8415, 82.1213



22.0530, 33.8255, 32.1556



10.8585, 11.0832, 17.7113



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.



12.3464, 10.0515, 42.3640



17.9941, 12.2475, 75.9109



12.6326, 7.4305, 41.8430



8.2089, 8.5639, 10.7267



6.4507, 3.7018, 30.5115



0.2501, 0.2107, 0.9757

Inverse Universe

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



20.6943, 12.3113, 9.4694



34.6257, 18.5363, 9.9742



27.8229, 37.3188, 8.9865



8.5806, 8.5390, 9.2899



13.4907, 6.9138, 2.4779



0.4483, 0.2271, 0.2032

Previews

White Background



This preview shows how the XYZ color 12.3459, 10.0512, 42.3637 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 × Fail

Black Background



This preview shows how the XYZ color 12.3459, 10.0512, 42.3637 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

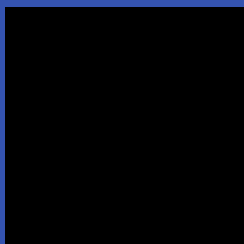
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.3459, 10.0512, 42.3637

Background



This preview shows how black text looks on a background with the XYZ color 12.3459, 10.0512, 42.3637.



This preview shows how white text looks on a background with the XYZ color 12.3459, 10.0512,

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

12.3459, 10.0512, 42.3637

Protanopia

11.8178, 10.0924, 43.9730

Deuteranopia

9.9126, 9.9508, 33.7460



Tritanopia

7.0634, 9.9643, 15.1867

Trichromacy



Original Color

12.3459, 10.0512, 42.3637

Protanomaly

11.9441, 10.0514, 43.4301

Deuteranomaly

10.5498, 9.8345, 36.9395

Tritanomaly

8.2796, 9.6058, 22.8905

Monochromacy



Original Color

12.3459, 10.0512, 42.3637

Achromatopsia

8.4267, 8.8656, 9.6546

Achromatomaly

9.0537, 9.0027, 18.0901

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3459, 10.0512, 42.3637 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(52, 83, 176)` looks like.

```
.text, #text, p{  
    color:rgb(52, 83, 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(52, 83, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(52, 83, 176) }
```

Border

The CSS property to change the border of an element to XYZ 12.3459, 10.0512, 42.3637 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(52, 83, 176) }
```


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

```
.border{ border-color:rgb(52, 83, 176) }
```

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

Here you see how a box with a 4 pixel rgb(52, 83, 176) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(52, 83, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(52, 83, 176);  
box-shadow:4px 4px 4px 4px rgb(52, 83,  
176) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3459, 10.0512, 42.3637 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(52, 83, 176) }
```

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

```
.background{ background-color: rgb(52, 83,  
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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