

Converting Colors

XYZ(12.8849, 13.3874, 32.8308)

Have a look what the booklet for
XYZ(12.8849, 13.3874, 32.8308)
contains.

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Color

**XYZ(12.9546, 13.4938,
32.9321)**

Conversions

Conversions Part 1

Format	Color
Hex	3E699B
RGB	62, 105, 155
RGB Percent	24%, 41%, 61%
CMY	0.7568, 0.5882, 0.3922
CMYK	0.60, 0.32, 0.00, 0.39
HSL	212°, 43%, 43%
HSV	212°, 60%, 61%
XYZ	12.9546, 13.4938, 32.9321
YIQ	97.8430, -41.6780, 6.4340

Conversions

Conversions Part 2

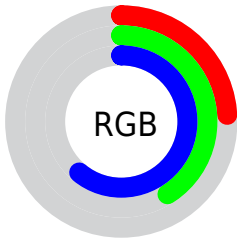
Format	Color
R _{YB}	62, 91, 155
Decimal	4090267
CIE Lab	43.50, 0.86, -31.67
CIE LCh	43, 31.679, 271.552
Yxy	13.4938, 0.2182, 0.2272
Android (android.graphics.Color)	4282280347 (0xFF3E699B)
YUV	97.8430, 28.1784, -31.4343
Hunter-Lab	36.7339, -1.3344, -27.4400

Details

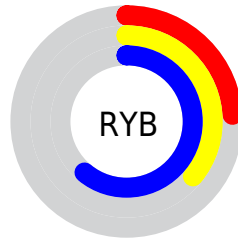
The XYZ color **12.9546, 13.4938, 32.9321** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **20.1821, 18.9060, 7.1438**, and the grayscale version is **11.5107, 12.1101, 13.1879**.

A 20% lighter version of the original color is **30.8574, 32.2120, 65.5639**, and **3.9612, 4.0054, 13.3963** is the 20% darker color. If you saturate the color by 10%, you get **11.3101, 11.4473, 32.6240**, and if you desaturate by 10%, it is **14.9605, 15.8506, 33.2816**.

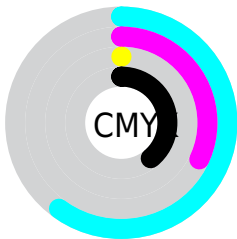
Distribution



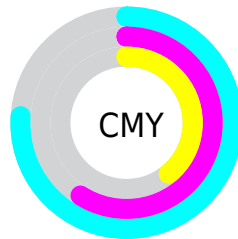
- Red (24%)
- Green (41%)
- Blue (61%)



- Red (24%)
- Yellow (36%)
- Blue (61%)



- Cyan (60%)
- Magenta (32%)
- Yellow (0%)
- Black (39%)



- Cyan (76%)
- Magenta (59%)
- Yellow (39%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9546, 13.4938, 32.9321 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 12.9546, 13.4938, 32.9321 by changing the saturation by 10% instead.

■ 12.9546, 13.4938,
32.9321

■ 12.9546, 13.4938,
32.9321

204.2700,
214.0586, 329.9663

■ 7.4741, 7.7695,
21.8037

■ 30.8242, 32.1881,
65.3843

■ 3.8093, 3.9478,
13.5158

■ 43.9440, 45.9269,
87.5452

■ 1.5948, 1.6444,
7.6498

■ 60.3409, 63.1059,
114.2207

■ 0.3890, 0.3873,
3.7872

■ 80.3803, 84.1095,
145.8294

■ 0.0000, 0.0000,
1.5093

■ 104.4276,
109.3222, 182.7897

■ 0.0000, 0.0000,
0.2249

132.8480,

■ 0.0000, 0.0000,

139.1284, 225.5203

0.0000

166.0071,
173.9124, 274.4396

■ 12.9546, 13.4938,
32.9321

■ 12.9546, 13.4938,
32.9321

■ 11.3101, 11.4473,
32.6240

■ 14.9605, 15.8506,
33.2816

■ 9.9989, 9.6923,
32.3544

■ 17.3501, 18.5319,
33.6731

■ 8.9904, 8.2097,
32.1214

■ 20.1454, 21.5524,
34.1088

■ 8.2123, 6.9583,
31.9208

■ 23.3663, 24.9257,
34.5902

■ 8.2121, 6.9579,
31.9208

■ 27.0310, 28.6641,
35.1186

■ 31.1571, 32.7796,
35.6955

■ 35.7608, 37.2835,
36.3222

■ 40.8576, 42.1864,
37.0000

■ 46.4624, 47.4988,
37.7299

Harmonies

Analogous

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



10.6920, 13.4938, 30.2045



12.9546, 13.4938, 32.9321



15.4767, 13.4938, 29.6124

Triad

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



12.9546, 13.4938, 32.9321



17.3170, 13.4938, 8.6588



9.0839, 13.4938, 9.1154

Complementary

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



12.9546, 13.4938, 32.9321



20.1821, 18.9060, 7.1438

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.



10.4957, 13.4938, 5.8777



12.9546, 13.4938, 32.9321



15.2254, 13.4938, 5.6798

Square

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



12.9546, 13.4938, 32.9321



18.1874, 13.4938, 14.3269



12.6972, 13.4938, 4.8538



8.6368, 13.4938, 15.0642

Rectangle

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



12.9546, 13.4938, 32.9321



16.9195, 13.4938, 24.8857



12.6972, 13.4938, 4.8538



9.4516, 13.4938, 7.7498

Sweetspot

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



12.9551, 13.4943, 32.9324



42.8706, 45.6949, 62.0968



16.6110, 25.6282, 19.2848



9.3202, 9.9470, 13.9991



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

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



12.9551, 13.4943, 32.9324



19.3902, 19.3725, 58.2536



9.8264, 6.9399, 31.8322



6.1080, 6.4734, 7.8565



6.6334, 5.6635, 25.6512



0.1350, 0.1564, 0.3954

Inverse Universe

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



17.7905, 11.4344, 14.6343



29.2469, 16.7896, 20.5914



25.5214, 30.4566, 9.0918



6.3216, 6.2678, 7.0739



11.8070, 5.9770, 5.5087



0.1946, 0.0966, 0.1777

Previews

White Background



This preview shows how the XYZ color 12.9546, 13.4938, 32.9321 looks on a white background.

Color Contrast Check

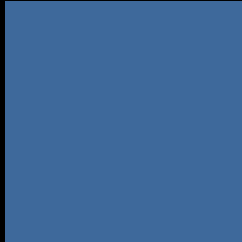
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.9546, 13.4938, 32.9321 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 12.9546, 13.4938, 32.9321

Background



This preview shows how black text looks on a background with the XYZ color 12.9546, 13.4938, 32.9321.

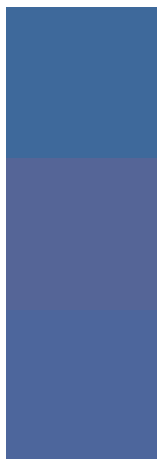


This preview shows how white text looks on a background with the XYZ color 12.9546, 13.4938,

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

12.9546, 13.4938, 32.9321

Protanopia

13.9859, 13.4730, 31.1416

Deuteranopia

13.8127, 13.4808, 33.3265



Tritanopia

10.4177, 13.5732, 20.1600

Trichromacy



Original Color

12.9546, 13.4938, 32.9321

Protanomaly

13.4794, 13.3475, 31.5716

Deuteranomaly

13.5235, 13.4785, 33.3413

Tritanomaly

11.1185, 13.3608, 24.1832

Monochromacy



Original Color

12.9546, 13.4938, 32.9321

Achromatopsia

11.6093, 12.2139, 13.3009

Achromatomaly

11.7298, 12.5706, 19.2609

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9546, 13.4938, 32.9321 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(62, 105, 155)` looks like.

```
.text, #text, p{  
  color:rgb(62, 105, 155)  
}
```

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(62, 105, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(62, 105, 155) }
```

Border

The CSS property to change the border of an element to XYZ 12.9546, 13.4938, 32.9321 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(62, 105, 155) }
```


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

```
.border{ border-color:rgb(62, 105, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(62, 105, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(62, 105, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(62, 105, 155);  
box-shadow:4px 4px 4px 4px rgb(62, 105,  
155) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9546, 13.4938, 32.9321 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(62, 105, 155) }
```

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

```
.background{ background-color: rgb(62, 105,  
155) }
```

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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