

Converting Colors

XYZ(13.1656, 12.8387, 31.4900)

Have a look what the booklet for
XYZ(13.1656, 12.8387, 31.4900)
contains.

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Color

**XYZ(13.2052, 12.9178,
31.5032)**

Conversions

Conversions Part 1

Format	Color
Hex	4C6498
RGB	76, 100, 152
RGB Percent	30%, 39%, 60%
CMY	0.7019, 0.6078, 0.4039
CMYK	0.50, 0.34, 0.00, 0.40
HSL	221°, 33%, 45%
HSV	221°, 50%, 60%
XYZ	13.2052, 12.9178, 31.5032
YIQ	98.7520, -30.9960, 11.0840

Conversions

Conversions Part 2

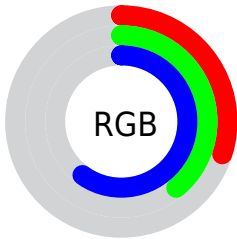
Format	Color
R_YB	76, 94, 152
Decimal	5006488
CIE _{Lab}	42.64, 6.21, -31.18
CIE _{LCh}	43, 31.790, 281.263
Yxy	12.9178, 0.2292, 0.2242
Android (android.graphics.Color)	4283196568 (0xFF4C6498)
YUV	98.7520, 26.2513, -19.9535
Hunter-Lab	35.9413, 2.6853, -26.8098

Details

The XYZ color **13.2052, 12.9178, 31.5032** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **21.9734, 22.6367, 10.0495**, and the grayscale version is **11.7396, 12.3509, 13.4502**.

A 20% lighter version of the original color is **31.3824, 31.3053, 63.4200**, and **3.9566, 3.7266, 12.8227** is the 20% darker color. If you saturate the color by 10%, you get **11.2026, 10.4981, 31.1419**, and if you desaturate by 10%, it is **15.6215, 15.7403, 31.9209**.

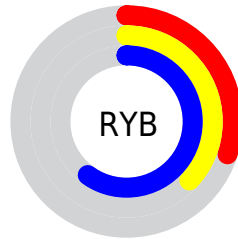
Distribution



Red (30%)

Green (39%)

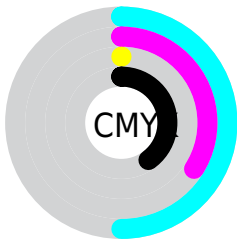
Blue (60%)



Red (30%)

Yellow (37%)

Blue (60%)

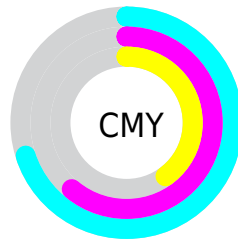


Cyan (50%)

Magenta (34%)

Yellow (0%)

Black (40%)



Cyan (70%)

Magenta (61%)

Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.2052, 12.9178, 31.5032 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 13.2052, 12.9178, 31.5032 by changing the saturation by 10% instead.

■ 13.2052, 12.9178,
31.5032

■ 13.2052, 12.9178,
31.5032

205.8397,
210.3902, 323.2726

■ 7.6480, 7.3720,
20.7207

■ 31.2701, 31.1560,
63.1203

■ 3.9204, 3.6958,
12.7307

■ 44.5085, 44.6172,
84.7919

■ 1.6572, 1.5049,
7.1148

■ 61.0381, 61.4856,
110.9303

■ 0.4293, 0.2922,
3.4545

■ 81.2241, 82.1457,
141.9540

■ 0.0000, 0.0000,
1.3311

■ 105.4319,
106.9818, 178.2815

■ 0.0000, 0.0000,
0.0871

134.0268,

■ 0.0000, 0.0000,

136.3783, 220.3314

0.0000

167.3743,
170.7196, 268.5223

■ 13.2052, 12.9178,
31.5032

■ 13.2052, 12.9178,
31.5032

■ 11.2026, 10.4981,
31.1419

■ 15.6215, 15.7403,
31.9209

■ 9.5870, 8.4596,
30.8336

■ 18.4729, 18.9827,
32.3965

■ 8.3307, 6.7808,
30.5758

■ 21.7812, 22.6628,
32.9324

■ 7.4012, 5.4368,
30.3654

■ 25.5661, 26.7970,
33.5309

■ 6.7245, 4.3809,
30.1972

■ 29.8461, 31.4005,
34.1939

■ 6.7243, 4.3806,
30.1972

■ 34.6388, 36.4880,
34.9233

■ 39.9608, 42.0736,
35.7209

■ 45.8280, 48.1707,
36.5885

■ 52.2557, 54.7921,
37.5278

Harmonies

Analogous

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



10.8491, 12.9178, 30.7430



13.2052, 12.9178, 31.5032



15.5938, 12.9178, 26.5819

Triad

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



13.2052, 12.9178, 31.5032



16.1001, 12.9178, 7.0041



8.3925, 12.9178, 10.2192

Complementary

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



13.2052, 12.9178, 31.5032



21.9734, 22.6367, 10.0495

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.



9.4690, 12.9178, 6.2634



13.2052, 12.9178, 31.5032



13.8271, 12.9178, 4.8706

Square

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



13.2052, 12.9178, 31.5032



17.4051, 12.9178, 11.6299



11.3952, 12.9178, 4.6531



8.2718, 12.9178, 16.8190

Rectangle

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



13.2052, 12.9178, 31.5032



16.8047, 12.9178, 21.4576



11.3952, 12.9178, 4.6531



8.6473, 12.9178, 8.6019

Sweetspot

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



13.2057, 12.9183, 31.5035



41.4825, 43.3340, 58.6116



18.1012, 25.5502, 24.3774



9.1388, 9.5322, 13.2757



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178

Same Dimension

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



13.2057, 12.9183, 31.5035



19.4055, 18.0750, 54.8997



12.4626, 9.6070, 30.9035



6.0357, 6.3288, 7.8324



5.6634, 3.7236, 25.3279



0.1147, 0.1158, 0.3887

Inverse Universe

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



17.8341, 12.7651, 13.5808



28.7563, 18.5635, 18.5113



23.0255, 28.3876, 11.1041



6.2852, 6.2532, 6.8818



11.3174, 5.7812, 2.9305



0.1844, 0.0925, 0.1237

Previews

White Background



This preview shows how the XYZ color 13.2052, 12.9178, 31.5032 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 13.2052, 12.9178, 31.5032 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

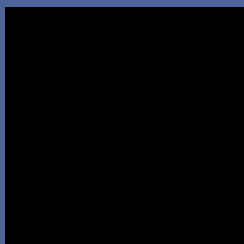
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

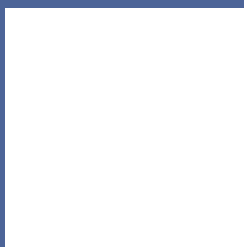
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 13.2052, 12.9178, 31.5032

Background



This preview shows how black text looks on a background with the XYZ color 13.2052, 12.9178, 31.5032.



This preview shows how white text looks on a background with the XYZ color 13.2052, 12.9178,

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

13.2052, 12.9178, 31.5032

Protanopia

13.5274, 12.9519, 31.0651

Deuteranopia

13.2052, 12.9178, 31.5032



Tritanopia

10.5244, 12.8663, 18.4518

Trichromacy



Original Color

13.2052, 12.9178, 31.5032

Protanomaly

13.3560, 12.8635, 31.0571

Deuteranomaly

13.2052, 12.9178, 31.5032

Tritanomaly

11.2967, 12.7146, 22.6276

Monochromacy



Original Color

13.2052, 12.9178, 31.5032

Achromatopsia

11.8596, 12.4772, 13.5877

Achromatomaly

12.0462, 12.4558, 18.9089

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.2052, 12.9178, 31.5032 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(76, 100, 152)` looks like.

```
.text, #text, p{  
    color:rgb(76, 100, 152)  
}
```

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(76, 100, 152) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 100, 152) }
```

Border

The CSS property to change the border of an element to XYZ 13.2052, 12.9178, 31.5032 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(76, 100, 152) }
```


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

```
.border{ border-color:rgb(76, 100, 152) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 100, 152)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 100, 152); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 100, 152);  
box-shadow:4px 4px 4px 4px rgb(76, 100,  
152) }
```

Background

The CSS property to change the background color of an element to XYZ 13.2052, 12.9178, 31.5032 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 100, 152) }
```

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

```
.background{ background-color: rgb(76, 100,  
152) }
```

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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