

Converting Colors

XYZ(31.1490, 37.9029, 15.0989)

Have a look what the booklet for
XYZ(31.1490, 37.9029, 15.0989)
contains.

XYZ(31.2439, 38.0820, 15.1550)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(31.2439, 38.0820,
15.1550)**

Conversions

Conversions Part 1

Format	Color
Hex	A0AD59
RGB	160, 173, 89
RGB Percent	63%, 68%, 35%
CMY	0.3726, 0.3216, 0.6510
CMYK	0.08, 0.00, 0.49, 0.32
HSL	69°, 34%, 51%
HSV	69°, 49%, 68%
XYZ	31.2439, 38.0820, 15.1550
YIQ	159.5370, 19.2160, -28.8800

Conversions

Conversions Part 2

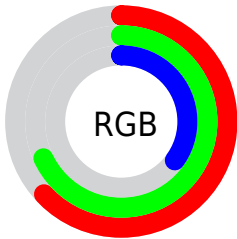
Format	Color
RYB	89, 173, 102
Decimal	10530137
CIELab	68.08, -17.34, 41.32
CIELCh	68, 44.812, 112.771
Yxy	38.0820, 0.3698, 0.4508
Android (android.graphics.Color)	4288720217 (0xFFA0AD59)
YUV	159.5370, -34.7747, 0.4061
Hunter-Lab	61.7106, -17.6196, 28.6369

Details

The XYZ color **31.2439, 38.0820, 15.1550** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **16.5961, 12.9876, 41.1696**, and the grayscale version is **33.3500, 35.0868, 38.2095**.

A 20% lighter version of the original color is **60.8700, 72.0088, 35.8902**, and **13.2670, 16.9470, 4.4913** is the 20% darker color. If you saturate the color by 10%, you get **30.0718, 37.5533, 11.7436**, and if you desaturate by 10%, it is **32.6001, 38.6884, 19.4677**.

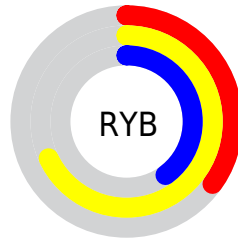
Distribution



Red (63%)

Green (68%)

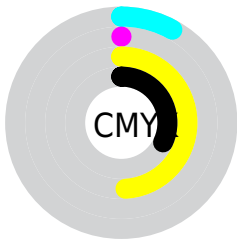
Blue (35%)



Red (35%)

Yellow (68%)

Blue (40%)

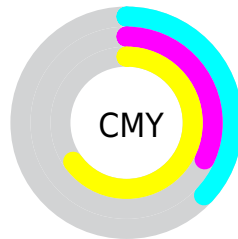


Cyan (8%)

Magenta (0%)

Yellow (49%)

Black (32%)



Cyan (37%)

Magenta (32%)

Yellow (65%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.2439, 38.0820, 15.1550 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 31.2439, 38.0820, 15.1550 by changing the saturation by 10% instead.

■ 31.2439, 38.0820,
15.1550

■ 31.2439, 38.0820,
15.1550

299.4672,
337.9716, 235.9755

■ 20.9374, 26.0463,
8.7804

■ 60.9971, 72.2338,
35.8710

■ 13.1904, 16.8583,
4.5034

■ 81.1745, 95.1187,
51.0495

■ 7.6377, 10.1335,
1.9054

■ 105.3729,
122.3889, 69.9997

■ 3.9139, 5.4876,
0.4961

■ 133.9576,
154.4286, 93.1402

■ 1.6535, 2.5361,
0.0000

167.2941,
191.6224, 120.8895

■ 0.4269, 0.8946,
0.0000

205.7476,

■ 0.0000, 0.0000,

234.3545, 153.6661

0.0000

249.6835,
283.0095, 191.8886

■ 31.2439, 38.0820,
15.1550

■ 31.2439, 38.0820,
15.1550

■ 30.0718, 37.5533,
11.7436

■ 32.6001, 38.6884,
19.4677

■ 29.0689, 37.0923,
9.1671

■ 34.1488, 39.3717,
24.7371

■ 28.2222, 36.6950,
7.3540


■ 35.9008, 40.1377,
31.0169


■ 27.5156, 36.3552,
6.2196

■ 37.8657, 40.9903,
38.3561


■ 26.9205, 36.0612,
5.6134


■ 40.0523, 41.9328,
46.8006

 26.8377, 36.0201,
5.5381

 42.4686, 42.9687,
56.3935

 45.1227, 44.1010,
67.1758

 48.0220, 45.3328,
79.1862

 51.1734, 46.6669,
92.4618

Harmonies

Analogous

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



37.9118, 38.0820, 13.8205



31.2439, 38.0820, 15.1550



26.5233, 38.0820, 22.2805

Triad

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



31.2439, 38.0820, 15.1550



28.6653, 38.0820, 80.2350



51.2161, 38.0820, 46.4943

Complementary

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



31.2439, 38.0820, 15.1550



16.5961, 12.9876, 41.1696

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.



47.9732, 38.0820, 69.3506



31.2439, 38.0820, 15.1550



34.5324, 38.0820, 92.5051

Square

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



31.2439, 38.0820, 15.1550



25.1736, 38.0820, 58.1992



41.6451, 38.0820, 87.9858



50.0408, 38.0820, 28.2917

Rectangle

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



31.2439, 38.0820, 15.1550



24.8267, 38.0820, 31.0864



41.6451, 38.0820, 87.9858



50.5938, 38.0820, 53.9288

Sweetspot

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



31.2448, 38.0837, 15.1558



65.4089, 72.3661, 59.6610



23.7503, 19.0309, 11.8732



14.0639, 15.6612, 12.4078



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



31.2448, 38.0837, 15.1558



53.7653, 67.2120, 20.7876



24.2738, 34.4900, 14.8296



8.5391, 9.2665, 8.5519



19.7542, 26.4807, 4.0701



0.5818, 0.7533, 0.1147

Inverse Universe

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



16.5961, 12.9876, 41.1696



24.5249, 17.0573, 72.8055



22.5483, 16.0561, 41.4482



7.6901, 7.8145, 10.0557



5.9014, 2.4022, 29.1971



0.1986, 0.0846, 0.8138

Previews

White Background



This preview shows how the XYZ color 31.2439, 38.0820, 15.1550 looks on a white 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

Black Background



This preview shows how the XYZ color 31.2439, 38.0820, 15.1550 looks on a black 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

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

XYZ 31.2439, 38.0820, 15.1550

Background



This preview shows how black text looks on a background with the XYZ color 31.2439, 38.0820, 15.1550.



This preview shows how white text looks on a background with the XYZ color 31.2439, 38.0820,

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

31.2439, 38.0820, 15.1550

Protanopia

34.8850, 38.0278, 14.5183

Deuteranopia

38.5598, 37.8006, 15.6198



Tritanopia

37.5112, 37.8750, 46.4079

Trichromacy



Original Color

31.2439, 38.0820, 15.1550

Protanomaly

33.6286, 38.1945, 14.8324

Deuteranomaly

35.5225, 37.5319, 15.4974

Tritanomaly

34.5786, 37.7580, 31.8511

Monochromacy



Original Color

31.2439, 38.0820, 15.1550

Achromatopsia

33.4132, 35.1533, 38.2819

Achromatomaly

32.2554, 36.1051, 27.8232

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.2439, 38.0820, 15.1550 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(160, 173, 89)` looks like.

```
.text, #text, p{  
    color:rgb(160, 173, 89)  
}
```

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(160, 173, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(160, 173, 89) }
```

Border

The CSS property to change the border of an element to XYZ 31.2439, 38.0820, 15.1550 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(160, 173, 89) }
```


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

```
.border{ border-color:rgb(160, 173, 89) }
```

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

Here you see how a box with a 4 pixel rgb(160, 173, 89) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(160, 173, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(160, 173, 89);  
box-shadow:4px 4px 4px 4px rgb(160, 173,  
89) }
```

Background

The CSS property to change the background color of an element to XYZ 31.2439, 38.0820, 15.1550 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(160, 173, 89) }
```

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

```
.background{ background-color: rgb(160,  
173, 89) }
```

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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