

Converting Colors

XYZ(30.9897, 16.7945, 49.0458)

Have a look what the booklet for
XYZ(30.9897, 16.7945, 49.0458)
contains.

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Color

**XYZ(31.0892, 16.8684,
49.1943)**

Conversions

Conversions Part 1

Format	Color
Hex	BC35BC
RGB	188, 53, 188
RGB Percent	74%, 21%, 74%
CMY	0.2627, 0.7921, 0.2627
CMYK	0.00, 0.72, 0.00, 0.26
HSL	300°, 56%, 47%
HSV	300°, 72%, 74%
XYZ	31.0892, 16.8684, 49.1943
YIQ	108.7550, 37.1250, 70.6050

Conversions

Conversions Part 2

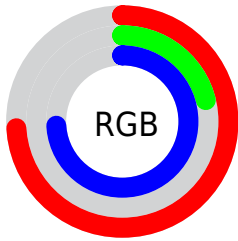
Format	Color
R _Y B	188, 53, 188
Decimal	12334524
CIE Lab	48.09, 68.24, -42.96
CIE LCh	48, 80.634, 327.807
Yxy	16.8684, 0.3200, 0.1736
Android (android.graphics.Color)	4290524604 (0xFFBC35BC)
YUV	108.7550, 39.0678, 69.4979
Hunter-Lab	41.0712, 63.2427, -42.2667

Details

The XYZ color **31.0892, 16.8684, 49.1943** is a dark color, and the websafe version is hex **CC33CC**. A complement of this color would be **20.0948, 36.9811, 9.4480**, and the grayscale version is **14.3532, 15.1007, 16.4447**.

A 20% lighter version of the original color is **60.6334, 37.9551, 90.5165**, and **13.6631, 6.5465, 23.0977** is the 20% darker color. If you saturate the color by 10%, you get **30.3944, 15.4783, 48.9628**, and if you desaturate by 10%, it is **32.1213, 18.9321, 49.5385**.

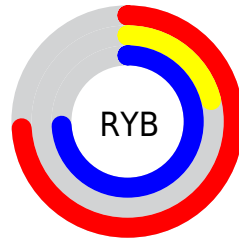
Distribution



Red (74%)

Green (21%)

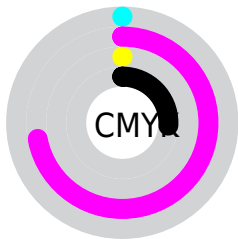
Blue (74%)



Red (74%)

Yellow (21%)

Blue (74%)

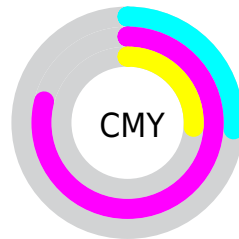


Cyan (0%)

Magenta (72%)

Yellow (0%)

Black (26%)



Cyan (26%)


Magenta (79%)


Yellow (26%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.0892, 16.8684, 49.1943 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 31.0892, 16.8684, 49.1943 by changing the saturation by 10% instead.


 31.0892, 16.8684,
49.1943


 31.0892, 16.8684,
49.1943


298.7686,
234.4129, 400.1512

 20.8189, 10.1407,
34.4069


 60.7554, 38.0994,
90.3639

 13.1034, 5.4924,
22.9265


 80.8820, 53.3714,
117.5833


 7.5773, 2.5389,
14.3345


 105.0248, 72.2604,
149.7838

 3.8752, 0.8961,
8.2123

 133.5491, 95.1507,
187.3838

 1.6318, 0.0000,
4.1414

 166.8203,
122.4267, 230.8021

 0.4130, 0.0000,
1.7032

205.2037,

 0.0000, 0.0000,

154.4728, 280.4570

0.3629

249.0647,
191.6734, 336.7672

■ 0.0000, 0.0000,
0.0000

■ 31.0892, 16.8684,
49.1943

■ 31.0892, 16.8684,
49.1943

■ 30.3944, 15.4783,
48.9628

■ 32.1213, 18.9321,
49.5385

■ 29.9930, 14.6756,
48.8289

■ 33.5240, 21.7375,
50.0061

■ 29.8164, 14.3223,
48.7700

■ 35.3286, 25.3467,
50.6077

■ 37.5627, 29.8148,
51.3525

■ 40.2513, 35.1921,
52.2487

■ 43.4177, 41.5248,
53.3042

■ 47.0835, 48.8563,
54.5262

■ 51.2688, 57.2270,
55.9214

■ 55.9930, 66.6753,
57.4961

Harmonies

Analogous

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



23.5139, 16.8684, 81.8213



31.0892, 16.8684, 49.1943



34.5506, 16.8684, 19.9490

Triad

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



31.0892, 16.8684, 49.1943



16.5763, 16.8684, 0.1639



6.5453, 16.8684, 44.2308

Complementary

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



31.0892, 16.8684, 49.1943



20.0948, 36.9811, 9.4480

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.



5.6982, 16.8684, 16.8706



31.0892, 16.8684, 49.1943



10.3352, 16.8684, 0.8108

Square

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



31.0892, 16.8684, 49.1943



24.7358, 16.8684, 1.0279



6.8454, 16.8684, 4.1944



9.6562, 16.8684, 77.7254

Rectangle

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



31.0892, 16.8684, 49.1943



33.4574, 16.8684, 8.6112



6.8454, 16.8684, 4.1944



6.0370, 16.8684, 33.6094

Sweetspot

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



31.0899, 16.8692, 49.1946



72.6559, 63.1941, 94.5943



11.8192, 6.9348, 48.2932



15.3254, 12.9918, 20.2424



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

Same Dimension

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



31.0899, 16.8692, 49.1946



54.6170, 27.1165, 88.5808



25.4335, 14.6066, 19.4089



9.9300, 9.6963, 12.0204



20.3003, 9.7513, 33.2048



0.7952, 0.3820, 1.3007

Inverse Universe

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



31.0899, 16.8692, 49.1946



54.6170, 27.1165, 88.5808



22.8728, 38.0923, 24.0771



9.9300, 9.6963, 12.0204



20.3003, 9.7513, 33.2048



0.7952, 0.3820, 1.3007

Previews

White Background



This preview shows how the XYZ color 31.0892, 16.8684, 49.1943 looks on a white background.

Color Contrast Check

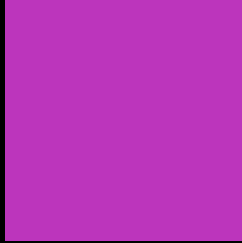
Large Text (above 18pt) WCAG AA ✓ Pass

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 31.0892, 16.8684, 49.1943 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

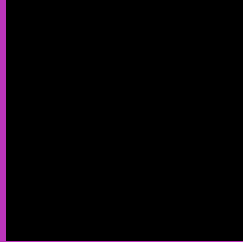
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 31.0892, 16.8684, 49.1943

Background



This preview shows how black text looks on a background with the XYZ color 31.0892, 16.8684, 49.1943.



This preview shows how white text looks on a background with the XYZ color 31.0892, 16.8684,

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

31.0892, 16.8684, 49.1943

Protanopia

20.6798, 17.3670, 80.8595

Deuteranopia

17.6608, 17.2655, 45.0496



Tritanopia

23.3910, 16.7754, 12.1303

Trichromacy



Original Color

31.0892, 16.8684, 49.1943



Protanomaly

18.6949, 13.6032, 67.9700



Deuteranomaly

20.0164, 15.0248, 46.1011



Tritanomaly

25.3356, 16.2536, 21.8806

Monochromacy



Original Color

31.0892, 16.8684, 49.1943



Achromatopsia

14.5356, 15.2926, 16.6537



Achromatomaly

18.6411, 14.3830, 25.8385

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.0892, 16.8684, 49.1943 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(188, 53, 188)` looks like.

```
.text, #text, p{  
    color:rgb(188, 53, 188)  
}
```

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(188, 53, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 53, 188) }
```

Border

The CSS property to change the border of an element to XYZ 31.0892, 16.8684, 49.1943 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(188, 53, 188) }
```


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

```
.border{ border-color:rgb(188, 53, 188) }
```

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

Here you see how a box with a 4 pixel `rgb(188, 53, 188)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 53, 188); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 53, 188);  
box-shadow:4px 4px 4px 4px rgb(188, 53,  
188) }
```

Background

The CSS property to change the background color of an element to XYZ 31.0892, 16.8684, 49.1943 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 53, 188) }
```

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

```
.background{ background-color: rgb(188, 53,  
188) }
```

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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