

Converting Colors

XYZ(30.9911, 16.3315, 49.3696)

Have a look what the booklet for
XYZ(30.9911, 16.3315, 49.3696)
contains.

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Color

**XYZ(31.0018, 16.3264,
49.0943)**

Conversions

Conversions Part 1

Format	Color
Hex	BD2DBC
RGB	189, 45, 188
RGB Percent	74%, 18%, 74%
CMY	0.2588, 0.8235, 0.2627
CMYK	0.00, 0.76, 0.01, 0.26
HSL	300°, 62%, 46%
HSV	300°, 76%, 74%
XYZ	31.0018, 16.3264, 49.0943
YIQ	104.3580, 39.9210, 75.0010

Conversions

Conversions Part 2

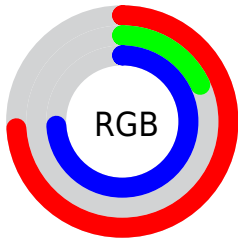
Format	Color
R_{YB}	189, 45, 188
Decimal	12398012
CIE Lab	47.40, 70.91, -44.05
CIE LCh	47, 83.476, 328.148
Yxy	16.3264, 0.3215, 0.1693
Android (android.graphics.Color)	4290588092 (0xFFBD2DBC)
YUV	104.3580, 41.2355, 74.2310
Hunter-Lab	40.4059, 66.2452, -43.7548

Details

The XYZ color **31.0018, 16.3264, 49.0943** is a dark color, and the websafe version is hex **CC33CC**. A complement of this color would be **19.7737, 37.1512, 8.7143**, and the grayscale version is **13.1404, 13.8247, 15.0551**.

A 20% lighter version of the original color is **60.8060, 37.2477, 90.3709**, and **13.6631, 6.5465, 23.0977** is the 20% darker color. If you saturate the color by 10%, you get **30.4214, 15.1877, 48.8311**, and if you desaturate by 10%, it is **31.9061, 18.1118, 49.4658**.

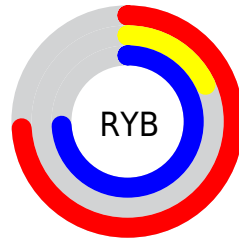
Distribution



Red (74%)

Green (18%)

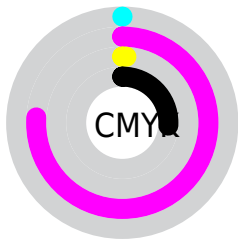
Blue (74%)



Red (74%)

Yellow (18%)

Blue (74%)

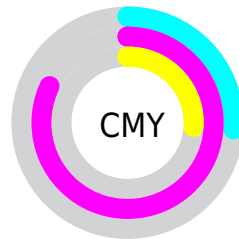


Cyan (0%)

Magenta (76%)

Yellow (1%)

Black (26%)



Cyan (26%)

Magenta (82%)

Yellow (26%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.0018, 16.3264, 49.0943 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 31.0018, 16.3264, 49.0943 by changing the saturation by 10% instead.

 31.0018, 16.3264,
49.0943


 31.0018, 16.3264,
49.0943

298.3733,
231.2601, 399.7466

 20.7521, 9.7554,
34.3282


 60.6187, 37.1639,
90.2139


 13.0543, 5.2371,
22.8664


 80.7166, 52.1993,
117.4045


 7.5432, 2.3870,
14.2905

 104.8279, 70.8248,
149.5736

 3.8534, 0.8192,
8.1820

 133.3180, 93.4250,
187.1399

 1.6195, 0.0000,
4.1222

 166.5523,
120.3843, 230.5217

 0.4051, 0.0000,
1.6926

204.8960,

 0.0000, 0.0000,

152.0869, 280.1378

0.3557

248.7146,
188.9174, 336.4065

■ 0.0000, 0.0000,
0.0000

■ 31.0018, 16.3264,
49.0943

■ 31.0018, 16.3264,
49.0943

■ 30.4214, 15.1877,
48.8311

■ 31.9061, 18.1118,
49.4658

■ 30.1137, 14.5950,
48.6587

■ 33.1707, 20.6182,
49.9573

■ 30.0301, 14.4364,
48.6043

■ 34.8290, 23.9122,
50.5801

■ 36.9103, 28.0521,
51.3440

■ 39.4411, 33.0908,
52.2578

■ 42.4456, 39.0770,
53.3295

■ 45.9463, 46.0557,
54.5667

■ 49.9644, 54.0691,
55.9765

■ 54.5198, 63.1570,
57.5654

Harmonies

Analogous

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



23.2393, 16.3264, 83.2929



31.0018, 16.3264, 49.0943



34.5116, 16.3264, 19.1259

Triad

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



31.0018, 16.3264, 49.0943



15.9820, 16.3264, 0.0000



6.0531, 16.3264, 44.7415

Complementary

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



31.0018, 16.3264, 49.0943



19.7737, 37.1512, 8.7143

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.



5.2025, 16.3264, 16.4925



31.0018, 16.3264, 49.0943



9.7296, 16.3264, 0.5677

Square

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



31.0018, 16.3264, 49.0943



24.2971, 16.3264, 0.7564



6.3018, 16.3264, 3.7823



9.1580, 16.3264, 79.6609

Rectangle

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



31.0018, 16.3264, 49.0943



33.3327, 16.3264, 7.8698



6.3018, 16.3264, 3.7823



5.5477, 16.3264, 33.7179

Sweetspot

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



31.0024, 16.3272, 49.0946



72.0671, 62.1118, 94.1040



11.2066, 6.1095, 48.7336



15.1059, 12.5765, 20.0963



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.



31.0024, 16.3272, 49.0946



54.0896, 26.4378, 87.2452



25.1364, 13.9807, 18.2046



9.9271, 9.6951, 12.0048



20.2061, 9.7136, 32.7086



0.7924, 0.3809, 1.2861

Inverse Universe

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



31.0024, 16.3272, 49.0946



54.0896, 26.4378, 87.2452



22.4915, 38.2384, 23.0262



9.9271, 9.6951, 12.0048



20.2061, 9.7136, 32.7086



0.7924, 0.3809, 1.2861

Previews

White Background



This preview shows how the XYZ color 31.0018, 16.3264, 49.0943 looks on a white background.

Color Contrast Check

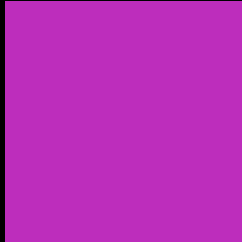
Large Text (above 18pt) WCAG AA ✓ Pass

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 31.0018, 16.3264, 49.0943 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

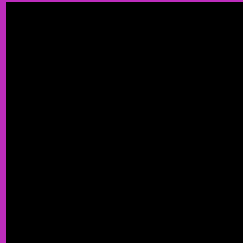
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 31.0018, 16.3264, 49.0943

Background



This preview shows how black text looks on a background with the XYZ color 31.0018, 16.3264, 49.0943.



This preview shows how white text looks on a background with the XYZ color 31.0018, 16.3264,

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

31.0018, 16.3264, 49.0943

Protanopia

20.0341, 16.7635, 78.5237

Deuteranopia

17.0829, 16.6443, 44.4318



Tritanopia

23.2148, 16.3561, 11.1660

Trichromacy



Original Color

31.0018, 16.3264, 49.0943



Protanomaly

18.1767, 12.8787, 66.4936



Deuteranomaly

19.4044, 14.2084, 45.9757



Tritanomaly

25.0576, 15.6566, 20.7701

Monochromacy



Original Color

31.0018, 16.3264, 49.0943



Achromatopsia

13.1579, 13.8432, 15.0752



Achromatomaly

17.4581, 13.0867, 24.5275

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.0018, 16.3264, 49.0943 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(189, 45, 188)` looks like.

```
.text, #text, p{  
    color:rgb(189, 45, 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(189, 45, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 45, 188) }
```

Border

The CSS property to change the border of an element to XYZ 31.0018, 16.3264, 49.0943 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(189, 45, 188) }
```


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

```
.border{ border-color:rgb(189, 45, 188) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 45, 188)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 45, 188); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 45, 188);  
box-shadow:4px 4px 4px 4px rgb(189, 45,  
188) }
```

Background

The CSS property to change the background color of an element to XYZ 31.0018, 16.3264, 49.0943 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 45, 188) }
```

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

```
.background{ background-color: rgb(189, 45,  
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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