

Converting Colors

XYZ(31.3295, 16.9726, 49.5941)

Have a look what the booklet for
XYZ(31.3295, 16.9726, 49.5941)
contains.

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Color

**XYZ(31.4447, 17.0391,
49.7757)**

Conversions

Conversions Part 1

Format	Color
Hex	BD35BD
RGB	189, 53, 189
RGB Percent	74%, 21%, 74%
CMY	0.2588, 0.7921, 0.2588
CMYK	0.00, 0.72, 0.00, 0.26
HSL	300°, 56%, 47%
HSV	300°, 72%, 74%
XYZ	31.4447, 17.0391, 49.7757
YIQ	109.1680, 37.4000, 71.1280

Conversions

Conversions Part 2

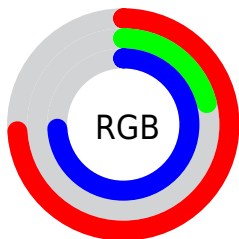
Format	Color
R_{YB}	189, 53, 189
Decimal	12400061
CIE _{Lab}	48.31, 68.62, -43.19
CIE _{LCh}	48, 81.078, 327.811
Yxy	17.0391, 0.3200, 0.1734
Android (android.graphics.Color)	4290590141 (0xFFBD35BD)
YUV	109.1680, 39.3572, 70.0127
Hunter-Lab	41.2784, 63.7387, -42.6001

Details

The XYZ color **31.4447, 17.0391, 49.7757** is a dark color, and the websafe version is hex **CC33CC**. A complement of this color would be **20.3092, 37.4100, 9.5194**, and the grayscale version is **14.4688, 15.2223, 16.5771**.

A 20% lighter version of the original color is **61.2511, 38.4205, 91.3764**, and **13.8889, 6.6548, 23.4741** is the 20% darker color. If you saturate the color by 10%, you get **30.7470, 15.6432, 49.5432**, and if you desaturate by 10%, it is **32.4833, 19.1157, 50.1221**.

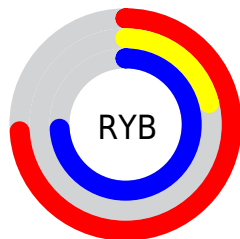
Distribution



Red (74%)

Green (21%)

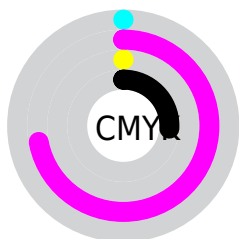
Blue (74%)



Red (74%)

Yellow (21%)

Blue (74%)

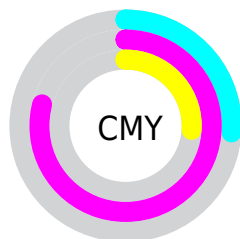


Cyan (0%)

Magenta (72%)

Yellow (0%)

Black (26%)



Cyan (26%)

Magenta (79%)

Yellow (26%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.4447, 17.0391, 49.7757 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 31.4447, 17.0391, 49.7757 by changing the saturation by 10% instead.

 31.4447, 17.0391,
49.7757

 31.4447, 17.0391,
49.7757


300.3723,
235.3976, 402.4981


 21.0912, 10.2624,
34.8653


 61.3106, 38.3930,
91.2353


 13.3035, 5.5733,
23.2764

 81.5538, 53.7389,
118.6216

 7.7163, 2.5874,
14.5905


 105.8241, 72.7101,
151.0036

 3.9642, 0.9203,
8.3891

 134.4871, 95.6908,
188.7999

 1.6819, 0.0000,
4.2536

 167.9081,
123.0656, 232.4289

 0.4449, 0.0000,
1.7655

206.4524,

 0.0000, 0.0000,

155.2187, 282.3092

0.4050

250.4853,
192.5345, 338.8594

■ 0.0000, 0.0000,
0.0000

■ 31.4447, 17.0391,
49.7757

■ 31.4447, 17.0391,
49.7757

■ 30.7470, 15.6432,
49.5432

■ 32.4833, 19.1157,
50.1221

■ 30.3457, 14.8406,
49.4093

■ 33.8965, 21.9422,
50.5933

■ 30.1719, 14.4931,
49.3514

■ 35.7163, 25.5817,
51.1999

■ 37.9706, 30.0902,
51.9514

■ 40.6847, 35.5185,
52.8562

■ 43.8823, 41.9137,
53.9222

■ 47.5853, 49.3196,
55.1566

■ 51.8142, 57.7774,
56.5663

■ 56.5884, 67.3258,
58.1578

Harmonies

Analogous

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



23.7715, 17.0391, 82.8529



31.4447, 17.0391, 49.7757



34.9508, 17.0391, 20.1508

Triad

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



31.4447, 17.0391, 49.7757



16.7439, 17.0391, 0.1589



6.5971, 17.0391, 44.7566

Complementary

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



31.4447, 17.0391, 49.7757



20.3092, 37.4100, 9.5194

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.



5.7407, 17.0391, 17.0414



31.4447, 17.0391, 49.7757



10.4285, 17.0391, 0.8095

Square

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



31.4447, 17.0391, 49.7757



25.0063, 17.0391, 1.0273



6.8998, 17.0391, 4.2207



9.7431, 17.0391, 78.7090

Rectangle

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



31.4447, 17.0391, 49.7757



33.8425, 17.0391, 8.6804



6.8998, 17.0391, 4.2207



6.0833, 17.0391, 33.9942

Sweetspot

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



31.4454, 17.0399, 49.7760



72.6559, 63.1940, 94.5942



11.9273, 6.9780, 48.8632



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.



31.4454, 17.0399, 49.7760



54.6169, 27.1165, 88.5803



25.7114, 14.7463, 19.5815



9.9300, 9.6963, 12.0204



20.3003, 9.7513, 33.2046



0.7952, 0.3820, 1.3007

Inverse Universe

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



31.4454, 17.0399, 49.7760



54.6169, 27.1165, 88.5803



23.1178, 38.5334, 24.3096



9.9300, 9.6963, 12.0204



20.3003, 9.7513, 33.2046



0.7952, 0.3820, 1.3007

Previews

White Background



This preview shows how the XYZ color 31.4447, 17.0391, 49.7757 looks on a white background.

Color Contrast Check

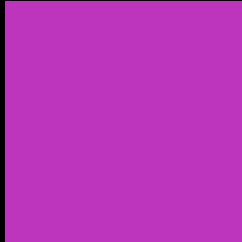
Large Text (above 18pt) WCAG AA ✓ Pass

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 31.4447, 17.0391, 49.7757 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 31.4447, 17.0391, 49.7757

Background



This preview shows how black text looks on a background with the XYZ color 31.4447, 17.0391, 49.7757.



This preview shows how white text looks on a background with the XYZ color 31.4447, 17.0391,

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

31.4447, 17.0391, 49.7757

Protanopia

20.8248, 17.4250, 81.6227

Deuteranopia

17.7471, 17.3100, 45.0536



Tritanopia

23.7441, 17.0717, 12.3996

Trichromacy



Original Color

31.4447, 17.0391, 49.7757



Protanomaly

18.8966, 13.6920, 68.6647



Deuteranomaly

20.2595, 15.1381, 46.6539



Tritanomaly

25.7038, 16.5358, 22.2591

Monochromacy



Original Color

31.4447, 17.0391, 49.7757



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 31.4447, 17.0391, 49.7757 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, 53, 189)` looks like.

```
.text, #text, p{  
    color:rgb(189, 53, 189)  
}
```

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, 53, 189) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 53, 189) }
```

Border

The CSS property to change the border of an element to XYZ 31.4447, 17.0391, 49.7757 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, 53, 189) }
```


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

```
.border{ border-color:rgb(189, 53, 189) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 53, 189)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 53, 189); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 53, 189);  
box-shadow:4px 4px 4px 4px rgb(189, 53,  
189) }
```

Background

The CSS property to change the background color of an element to XYZ 31.4447, 17.0391, 49.7757 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 53, 189) }
```

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

```
.background{ background-color: rgb(189, 53,  
189) }
```

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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