

Converting Colors

XYZ(31.5020, 23.1131, 42.3611)

Have a look what the booklet for
XYZ(31.5020, 23.1131, 42.3611)
contains.

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Color

**XYZ(31.6229, 23.2358,
42.3534)**

Conversions

Conversions Part 1

Format	Color
Hex	B46BAD
RGB	180, 107, 173
RGB Percent	71%, 42%, 68%
CMY	0.2941, 0.5804, 0.3216
CMYK	0.00, 0.41, 0.04, 0.29
HSL	306°, 33%, 56%
HSV	306°, 41%, 71%
XYZ	31.6229, 23.2358, 42.3534
YIQ	136.3510, 22.3220, 36.0020

Conversions

Conversions Part 2

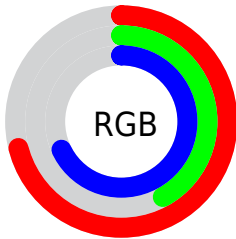
Format	Color
RYB	180, 107, 173
Decimal	11824045
CIELab	55.31, 39.07, -23.04
CIELCh	55, 45.361, 329.475
Yxy	23.2358, 0.3253, 0.2390
Android (android.graphics.Color)	4290014125 (0xFFB46BAD)
YUV	136.3510, 18.0680, 38.2802
Hunter-Lab	48.2035, 32.7450, -18.3519

Details

The XYZ color **31.6229, 23.2358, 42.3534** is a light color, and the websafe version is hex **996699**. A complement of this color would be **25.4229, 36.9840, 21.7197**, and the grayscale version is **23.4625, 24.6843, 26.8812**.

A 20% lighter version of the original color is **61.6387, 48.8033, 80.3000**, and **13.4575, 8.7179, 18.7427** is the 20% darker color. If you saturate the color by 10%, you get **29.7722, 19.7996, 40.9179**, and if you desaturate by 10%, it is **33.8678, 27.4562, 43.9315**.

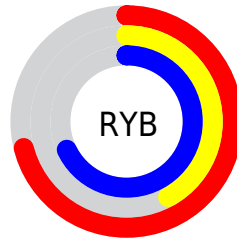
Distribution



Red (71%)

Green (42%)

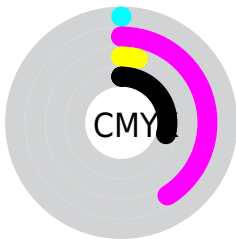
Blue (68%)



Red (71%)

Yellow (42%)

Blue (68%)

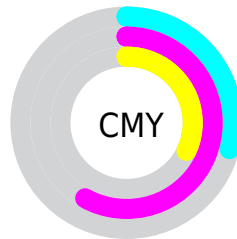


Cyan (0%)

Magenta (41%)

Yellow (4%)

Black (29%)



Cyan (29%)


Magenta (58%)


Yellow (32%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.6229, 23.2358, 42.3534 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 31.6229, 23.2358, 42.3534 by changing the saturation by 10% instead.


 31.6229, 23.2358,
42.3534


 31.6229, 23.2358,
42.3534


301.1737,
268.9338, 371.7886


 21.2278, 14.7677,
29.0505


 61.5886, 48.7802,
80.0101


 13.4040, 8.6565,
18.8731


 81.8900, 66.6253,
105.2009

 7.7862, 4.5178,
11.4027


 106.2241, 88.3649,
135.1914

 4.0091, 1.9672,
6.2208

 134.9563,
114.3834, 170.4002

 1.7073, 0.5883,
2.9089

168.4520,
145.0651, 211.2457

 0.4608, 0.0000,
1.0483

207.0766,

 0.0000, 0.0000,

180.7945, 258.1467

0.0000

251.1954,
221.9559, 311.5214

■ 31.6229, 23.2358,
42.3534

■ 31.6229, 23.2358,
42.3534

■ 29.7722, 19.7996,
40.9179

■ 33.8678, 27.4562,
43.9315

■ 28.2891, 17.0956,
39.6153

■ 36.5271, 32.5022,
45.6581

■ 27.1472, 15.0705,
38.4370


■ 39.6222, 38.4163,
47.5407


■ 26.3155, 13.6624,
37.3726


■ 43.1723, 45.2369,
49.5857


■ 25.7574, 12.7981,
36.4099

■ 47.1954, 53.0003,
51.7993

 25.4101, 12.3384,
35.5701

 51.7089, 61.7406,
54.1871

 56.7288, 71.4904,
56.7546

 62.2707, 82.2807,
59.5071

 63.7177, 84.8775,
60.9055

Harmonies

Analogous

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



27.2534, 23.2358, 58.3439



31.6229, 23.2358, 42.3534



33.3752, 23.2358, 25.5574

Triad

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



31.6229, 23.2358, 42.3534



22.1747, 23.2358, 6.3592



14.6199, 23.2358, 41.7296

Complementary

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



31.6229, 23.2358, 42.3534



25.4229, 36.9840, 21.7197

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.



13.6800, 23.2358, 25.0440



31.6229, 23.2358, 42.3534



17.6151, 23.2358, 7.9140

Square

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



31.6229, 23.2358, 42.3534



27.4324, 23.2358, 8.0329



14.6881, 23.2358, 13.5762



17.4819, 23.2358, 57.8970

Rectangle

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



31.6229, 23.2358, 42.3534



32.6446, 23.2358, 17.0657



14.6881, 23.2358, 13.5762



14.0902, 23.2358, 35.8303

Sweetspot

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



31.6237, 23.2368, 42.3539



70.8597, 67.7733, 85.6165



20.3177, 17.3281, 45.4544



15.1548, 14.3410, 18.4086



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787

Same Dimension

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



31.6237, 23.2368, 42.3539



54.2001, 36.3009, 74.3699



28.6263, 22.0379, 26.5700



8.8142, 8.6324, 10.5200



17.7480, 8.6168, 24.8969



0.5685, 0.2752, 0.8366

Inverse Universe

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



31.6237, 23.2368, 42.3539



54.2001, 36.3009, 74.3699



27.8571, 37.9577, 34.5379



8.8142, 8.6324, 10.5200



17.7480, 8.6168, 24.8969



0.5685, 0.2752, 0.8366

Previews

White Background



This preview shows how the XYZ color 31.6229, 23.2358, 42.3534 looks on a white background.

Color Contrast Check

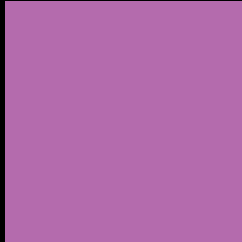
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 31.6229, 23.2358, 42.3534 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

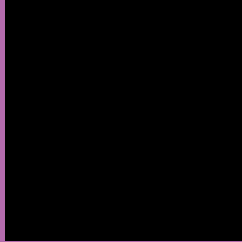
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 31.6229, 23.2358, 42.3534

Background



This preview shows how black text looks on a background with the XYZ color 31.6229, 23.2358, 42.3534.



This preview shows how white text looks on a background with the XYZ color 31.6229, 23.2358,

42.3534.

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

31.6229, 23.2358, 42.3534

Protanopia

24.4597, 23.5716, 52.5508

Deuteranopia

23.8965, 23.3419, 40.7821



Tritanopia

27.5827, 23.2276, 22.7683

Trichromacy



Original Color

31.6229, 23.2358, 42.3534

Protanomaly

26.0925, 22.7830, 48.3697

Deuteranomaly

26.0693, 22.9323, 41.0826

Tritanomaly

28.7675, 23.0235, 28.9144

Monochromacy



Original Color

31.6229, 23.2358, 42.3534

Achromatopsia

23.4014, 24.6201, 26.8113

Achromatomaly

25.7073, 23.5126, 31.6172

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.6229, 23.2358, 42.3534 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(180, 107, 173)` looks like.

```
.text, #text, p{  
    color:rgb(180, 107, 173)  
}
```

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(180, 107, 173) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 107, 173) }
```

Border

The CSS property to change the border of an element to XYZ 31.6229, 23.2358, 42.3534 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(180, 107, 173) }
```


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

```
.border{ border-color:rgb(180, 107, 173) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 107, 173)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 107, 173); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 107, 173);  
box-shadow:4px 4px 4px 4px rgb(180, 107,  
173) }
```

Background

The CSS property to change the background color of an element to XYZ 31.6229, 23.2358, 42.3534 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 107, 173) }
```

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

```
.background{ background-color: rgb(180,  
107, 173) }
```

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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