

Converting Colors

XYZ(31.9000, 23.2042, 43.8760)

Have a look what the booklet for
XYZ(31.9000, 23.2042, 43.8760)
contains.

XYZ(31.8129, 23.1460, 43.8652)	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(31.8129, 23.1460,
43.8652)**

Conversions

Conversions Part 1

Format	Color
Hex	B46AB0
RGB	180, 106, 176
RGB Percent	71%, 42%, 69%
CMY	0.2941, 0.5843, 0.3098
CMYK	0.00, 0.41, 0.02, 0.29
HSL	303°, 33%, 56%
HSV	303°, 41%, 71%
XYZ	31.8129, 23.1460, 43.8652
YIQ	136.1060, 21.6340, 37.4580

Conversions

Conversions Part 2

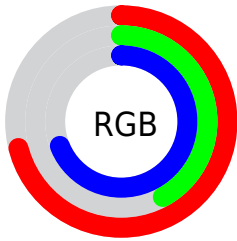
Format	Color
RYB	180, 106, 176
Decimal	11823792
CIELab	55.22, 40.16, -24.92
CIELCh	55, 47.263, 328.187
Yxy	23.1460, 0.3219, 0.2342
Android (android.graphics.Color)	4290013872 (0xFFB46AB0)
YUV	136.1060, 19.6677, 38.4950
Hunter-Lab	48.1103, 33.8400, -20.3812

Details

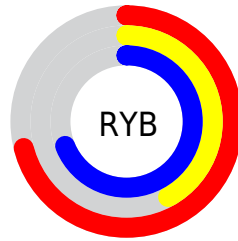
The XYZ color **31.8129, 23.1460, 43.8652** is a light color, and the websafe version is hex **996699**. A complement of this color would be **25.0806, 36.8333, 20.5409**, and the grayscale version is **23.3652, 24.5820, 26.7698**.

A 20% lighter version of the original color is **61.8887, 48.6270, 82.4680**, and **13.5455, 8.5981, 19.6846** is the 20% darker color. If you saturate the color by 10%, you get **30.0533, 19.7798, 42.8055**, and if you desaturate by 10%, it is **33.9640, 27.2932, 45.0593**.

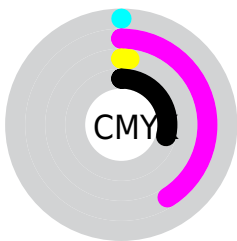
Distribution



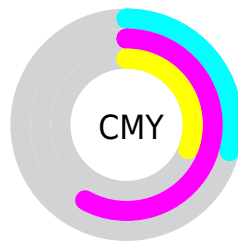
- Red (71%)
- Green (42%)
- Blue (69%)



- Red (71%)
- Yellow (42%)
- Blue (69%)



- Cyan (0%)
- Magenta (41%)
- Yellow (2%)
- Black (29%)





- Cyan (29%)
- Magenta (58%)
- Yellow (31%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.8129, 23.1460, 43.8652 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 31.8129, 23.1460, 43.8652 by changing the saturation by 10% instead.


 31.8129, 23.1460,
43.8652


 31.8129, 23.1460,
43.8652


302.0265,
268.4740, 378.1832


 21.3735, 14.7013,
30.2281


 61.8848, 48.6329,
82.3152


 13.5113, 8.6101,
19.7583


 82.2481, 66.4440,
107.9652

 7.8610, 4.4877,
12.0371

 106.6499, 88.1461,
138.4565

 4.0572, 1.9500,
6.6461

 135.4558,
114.1234, 174.2078

 1.7345, 0.5782,
3.1667

169.0311,
144.7605, 215.6376

 0.4777, 0.0000,
1.1804

207.7410,

 0.0000, 0.0000,

180.4417, 263.1644

0.0000

251.9511,
221.5514, 317.2067

■ 31.8129, 23.1460,
43.8652

■ 31.8129, 23.1460,
43.8652

■ 30.0533, 19.7798,
42.8055

■ 33.9640, 27.2932,
45.0593

■ 28.6583, 17.1424,
41.8706

■ 36.5269, 32.2630,
46.3937

■ 27.6015, 15.1801,
41.0517

■ 39.5229, 38.0981,
47.8760

■ 26.8516, 13.8304,
40.3385

■ 42.9713, 44.8371,
49.5125

■ 26.3715, 13.0195,
39.7187

■ 46.8904, 52.5162,
51.3094

■ 26.1039, 12.6159,
39.2235

■ 51.2974, 61.1699,
53.2723

■ 56.2084, 70.8307,
55.4066

■ 61.6391, 81.5296,
57.7177

■ 63.3141, 84.7160,
58.7803

Harmonies

Analogous

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



27.1565, 23.1460, 60.5366



31.8129, 23.1460, 43.8652



33.7983, 23.1460, 26.1341

Triad

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



31.8129, 23.1460, 43.8652



22.3227, 23.1460, 5.8709



14.2040, 23.1460, 41.5977

Complementary

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



31.8129, 23.1460, 43.8652



25.0806, 36.8333, 20.5409

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.



13.3264, 23.1460, 24.2924



31.8129, 23.1460, 43.8652



17.5407, 23.1460, 7.2703

Square

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



31.8129, 23.1460, 43.8652



27.8024, 23.1460, 7.6798



14.4455, 23.1460, 12.7638



17.0662, 23.1460, 58.9001

Rectangle

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



31.8129, 23.1460, 43.8652



33.1337, 23.1460, 17.1669



14.4455, 23.1460, 12.7638



13.6894, 23.1460, 35.4194

Sweetspot

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



31.8137, 23.1470, 43.8657



71.0275, 67.8404, 86.5002



19.7865, 16.9004, 45.3998



15.1948, 14.3570, 18.6193



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.



31.8137, 23.1470, 43.8657



54.8602, 36.5650, 77.8459



28.6595, 21.8854, 27.2561



8.8298, 8.6386, 10.6021



18.2268, 8.8083, 27.4180



0.5795, 0.2795, 0.8942

Inverse Universe

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



31.8137, 23.1470, 43.8657



54.8602, 36.5650, 77.8459



27.5090, 37.8046, 33.3287



8.8298, 8.6386, 10.6021



18.2268, 8.8083, 27.4180



0.5795, 0.2795, 0.8942

Previews

White Background



This preview shows how the XYZ color 31.8129, 23.1460, 43.8652 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 31.8129, 23.1460, 43.8652 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

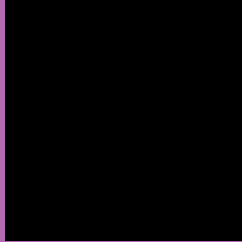
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 31.8129, 23.1460, 43.8652

Background



This preview shows how black text looks on a background with the XYZ color 31.8129, 23.1460, 43.8652.



This preview shows how white text looks on a background with the XYZ color 31.8129, 23.1460,

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

31.8129, 23.1460, 43.8652

Protanopia

24.5222, 23.5522, 54.8833

Deuteranopia

23.8865, 23.3038, 42.2689



Tritanopia

27.5827, 23.2276, 22.7683

Trichromacy



Original Color

31.8129, 23.1460, 43.8652

Protanomaly

26.1900, 22.7841, 50.5944

Deuteranomaly

26.0573, 22.7116, 42.5456

Tritanomaly

28.8437, 23.0540, 29.3152

Monochromacy



Original Color

31.8129, 23.1460, 43.8652

Achromatopsia

23.4014, 24.6201, 26.8113

Achromatomaly

25.8684, 23.5770, 32.4656

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.8129, 23.1460, 43.8652 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, 106, 176)` looks like.

```
.text, #text, p{  
    color:rgb(180, 106, 176)  
}
```

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, 106, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 106, 176) }
```

Border

The CSS property to change the border of an element to XYZ 31.8129, 23.1460, 43.8652 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, 106, 176) }
```


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

```
.border{ border-color:rgb(180, 106, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 106, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 106, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 106, 176);  
box-shadow:4px 4px 4px 4px rgb(180, 106,  
176) }
```

Background

The CSS property to change the background color of an element to XYZ 31.8129, 23.1460, 43.8652 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 106, 176) }
```

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

```
.background{ background-color: rgb(180,  
106, 176) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor