

Converting Colors

XYZ(23.9301, 12.4398, 38.3324)

Have a look what the booklet for
XYZ(23.9301, 12.4398, 38.3324)
contains.

XYZ(23.8472, 12.4137, 38.1850)	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(23.8472, 12.4137,
38.1850)**

Conversions

Conversions Part 1

Format	Color
Hex	A824A8
RGB	168, 36, 168
RGB Percent	66%, 14%, 66%
CMY	0.3412, 0.8588, 0.3412
CMYK	0.00, 0.79, 0.00, 0.34
HSL	300°, 65%, 40%
HSV	300°, 79%, 66%
XYZ	23.8472, 12.4137, 38.1850
YIQ	90.5160, 36.3000, 69.0360

Conversions

Conversions Part 2

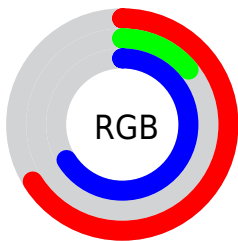
Format	Color
R_{YB}	168, 36, 168
Decimal	11019432
CIE _{Lab}	41.87, 65.93, -41.27
CIE _{LCh}	42, 77.785, 327.956
Yxy	12.4137, 0.3203, 0.1667
Android (android.graphics.Color)	4289209512 (0xFFA824A8)
YUV	90.5160, 38.1996, 67.9535
Hunter-Lab	35.2331, 59.1583, -39.5943

Details

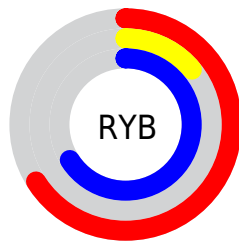
The XYZ color **23.8472, 12.4137, 38.1850** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **15.0492, 28.5083, 6.3791**, and the grayscale version is **9.7460, 10.2535, 11.1661**.

A 20% lighter version of the original color is **49.1863, 30.2859, 73.7744**, and **9.7766, 4.6825, 16.6082** is the 20% darker color. If you saturate the color by 10%, you get **23.4530, 11.6249, 38.0536**, and if you desaturate by 10%, it is **24.4809, 13.6807, 38.3964**.

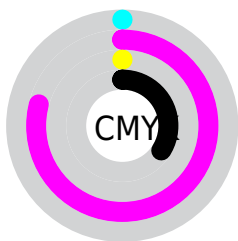
Distribution



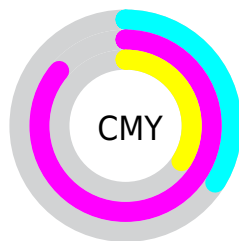
- Red (66%)
- Green (14%)
- Blue (66%)



- Red (66%)
- Yellow (14%)
- Blue (66%)



- Cyan (0%)
- Magenta (79%)
- Yellow (0%)
- Black (34%)





- Cyan (34%)
- Magenta (86%)
- Yellow (34%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.8472, 12.4137, 38.1850 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 23.8472, 12.4137, 38.1850 by changing the saturation by 10% instead.


 23.8472, 12.4137,
38.1850


 23.8472, 12.4137,
38.1850


264.5019,
207.1252, 353.7349


 15.3444, 7.0261,
25.8234


 49.2372, 30.2464,
73.5982

 9.1494, 3.4784,
16.4670


 66.8552, 43.4602,
97.4868


 4.8966, 1.3863,
9.6973


 88.2423, 60.0516,
126.0548

 2.2209, 0.2066,
5.0957

 113.7639, 80.4049,
159.7208

 0.7537, 0.0000,
2.2438

 143.7852,
104.9045, 198.9032

 0.0000, 0.0000,
0.6995

 178.6718,

 0.0000, 0.0000,

133.9348, 244.0207

0.0000

218.7889,
167.8802, 295.4917

■ 23.8472, 12.4137,
38.1850

■ 23.8472, 12.4137,
38.1850

■ 23.4530, 11.6249,
38.0536

■ 24.4809, 13.6807,
38.3964

■ 23.2427, 11.2044,
37.9835

■ 25.3823, 15.4834,
38.6969

■ 23.2166, 11.1521,
37.9748

■ 26.5770, 17.8729,
39.0952

■ 28.0875, 20.8939,
39.5987

■ 29.9340, 24.5868,
40.2143

■ 32.1349, 28.9887,
40.9480

■ 34.7076, 34.1339,
41.8055

■ 37.6679, 40.0546,
42.7924

■ 41.0311, 46.7809,
43.9135

Harmonies

Analogous

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



17.7672, 12.4137, 65.0871



23.8472, 12.4137, 38.1850



26.6259, 12.4137, 14.6755

Triad

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



23.8472, 12.4137, 38.1850



12.1969, 12.4137, 0.0000



4.4876, 12.4137, 34.4139

Complementary

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



23.8472, 12.4137, 38.1850



15.0492, 28.5083, 6.3791

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.



3.8481, 12.4137, 12.4200



23.8472, 12.4137, 38.1850



7.3436, 12.4137, 0.2430

Square

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



23.8472, 12.4137, 38.1850



18.6782, 12.4137, 0.4369



4.6974, 12.4137, 2.7247



6.8577, 12.4137, 61.9247

Rectangle

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



23.8472, 12.4137, 38.1850



25.7234, 12.4137, 5.9250



4.6974, 12.4137, 2.7247



4.1050, 12.4137, 25.7931

Sweetspot

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



23.8477, 12.4143, 38.1853



55.8874, 47.7529, 73.4965



8.4268, 4.4645, 37.4640



11.8962, 9.8385, 15.9241



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656

Same Dimension

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



23.8477, 12.4143, 38.1853



42.2753, 20.5288, 68.9585



19.1782, 10.5465, 13.5962



7.8419, 7.6666, 9.4848



17.5320, 8.4215, 28.6766



0.4266, 0.2049, 0.6977

Inverse Universe

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



23.8477, 12.4143, 38.1853



42.2753, 20.5288, 68.9585



17.1291, 29.3403, 17.3318



7.8419, 7.6666, 9.4848



17.5320, 8.4215, 28.6766



0.4266, 0.2049, 0.6977

Previews

White Background



This preview shows how the XYZ color 23.8472, 12.4137, 38.1850 looks on a white background.

Color Contrast Check

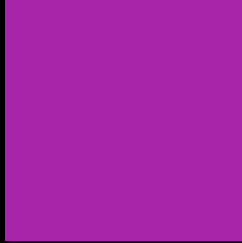
Large Text (above 18pt) WCAG AA ✓ Pass

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 23.8472, 12.4137, 38.1850 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

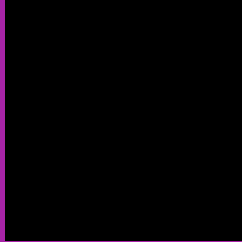
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 23.8472, 12.4137, 38.1850

Background



This preview shows how black text looks on a background with the XYZ color 23.8472, 12.4137, 38.1850.

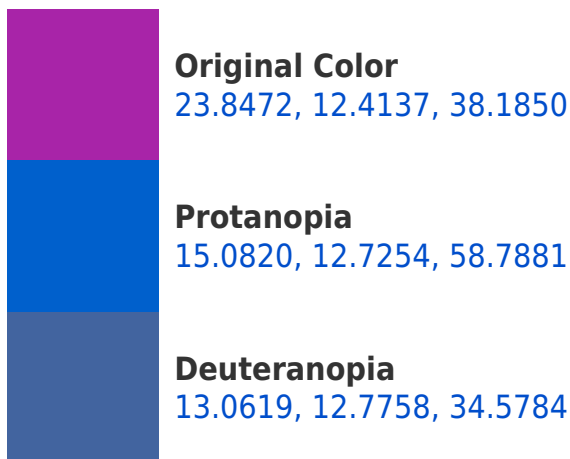


This preview shows how white text looks on a background with the XYZ color 23.8472, 12.4137,

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





Tritanopia

17.7575, 12.4397, 8.4863

Trichromacy



Original Color

23.8472, 12.4137, 38.1850



Protanomaly

13.7772, 9.6512, 50.4270



Deuteranomaly

14.7690, 10.8000, 35.4886



Tritanomaly

19.2787, 11.9351, 16.0395

Monochromacy



Original Color

23.8472, 12.4137, 38.1850



Achromatopsia

9.9438, 10.4616, 11.3927



Achromatomaly

13.1908, 9.7603, 18.6415

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.8472, 12.4137, 38.1850 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(168, 36, 168)` looks like.

```
.text, #text, p{  
    color:rgb(168, 36, 168)  
}
```

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(168, 36, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 36, 168) }
```

Border

The CSS property to change the border of an element to XYZ 23.8472, 12.4137, 38.1850 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(168, 36, 168) }
```


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

```
.border{ border-color:rgb(168, 36, 168) }
```

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

Here you see how a box with a 4 pixel rgb(168, 36, 168) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 36, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 36, 168);  
box-shadow:4px 4px 4px 4px rgb(168, 36,  
168) }
```

Background

The CSS property to change the background color of an element to XYZ 23.8472, 12.4137, 38.1850 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 36, 168) }
```

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

```
.background{ background-color: rgb(168, 36,  
168) }
```

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