

Converting Colors

XYZ(23.8184, 11.9436, 16.2779)

Have a look what the booklet for
XYZ(23.8184, 11.9436, 16.2779)
contains.

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Color

**XYZ(23.9109, 11.9887,
16.3830)**

Conversions

Conversions Part 1

Format	Color
Hex	BD0070
RGB	189, 0, 112
RGB Percent	74%, 0%, 44%
CMY	0.2588, 0.9999, 0.5608
CMYK	0.00, 1.00, 0.41, 0.26
HSL	324°, 100%, 37%
HSV	324°, 100%, 74%
XYZ	23.9109, 11.9887, 16.3830
YIQ	69.2790, 76.6920, 74.9000

Conversions

Conversions Part 2

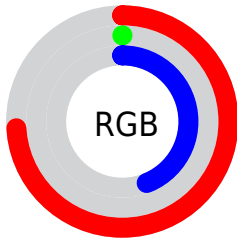
Format	Color
RYB	189, 0, 112
Decimal	12386416
CIELab	41.20, 69.09, -7.76
CIELCh	41, 69.528, 353.594
Yxy	11.9887, 0.4573, 0.2293
Android (android.graphics.Color)	4290576496 (0xFFBD0070)
YUV	69.2790, 21.0615, 104.9953
Hunter-Lab	34.6247, 62.6741, -3.8163

Details

The XYZ color **23.9109, 11.9887, 16.3830** is a dark color, and the websafe version is hex **CC0066**. A complement of this color would be **19.5387, 36.9317, 13.1261**, and the grayscale version is **5.6631, 5.9580, 6.4883**.

A 20% lighter version of the original color is **49.3737, 29.5013, 38.2140**, and **10.1313, 5.1160, 5.3040** is the 20% darker color. If you saturate the color by 10%, you get **23.9101, 11.9884, 16.3790**, and if you desaturate by 10%, it is **24.5901, 12.6311, 18.8165**.

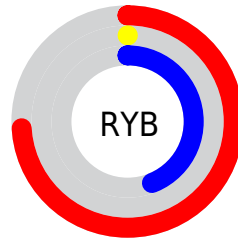
Distribution



Red (74%)

Green (0%)

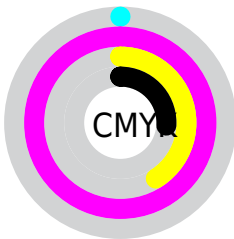
Blue (44%)



Red (74%)

Yellow (0%)

Blue (44%)

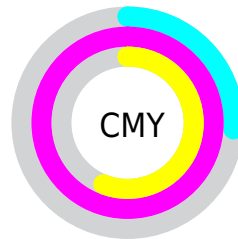


Cyan (0%)

Magenta (100%)

Yellow (41%)

Black (26%)



Cyan (26%)


Magenta (100%)


Yellow (56%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 23.9109, 11.9887, 16.3830 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 23.9109, 11.9887, 16.3830 by changing the saturation by 10% instead.


 23.9109, 11.9887,
16.3830


 23.9109, 11.9887,
16.3830


264.8186,
204.3305, 243.5136


 15.3919, 6.7360,
9.6383


 49.3405, 29.4745,
38.0378

 9.1830, 3.2975,
5.0573

 66.9818, 42.4764,
53.7851


 4.9188, 1.2890,
2.2216

 88.3946, 58.8302,
73.3702

 2.2340, 0.1326,
0.6868

 113.9443, 78.9202,
97.2118

 0.7606, 0.0000,
0.0000

 143.9962,
103.1308, 125.7284

 0.0000, 0.0000,
0.0000

 178.9156,

131.8465, 159.3386

219.0679,
165.4516, 198.4608

■ 23.9109, 11.9887,
16.3830

■ 23.9109, 11.9887,
16.3830

■ 23.9101, 11.9884,
16.3790

■ 24.5901, 12.6311,
18.8165

■ 25.5311, 13.7373,
21.5225

■ 26.8168, 15.4710,
24.5330

■ 28.4887, 17.9146,
27.8658

■ 30.5825, 21.1379,
31.5368

■ 33.1294, 25.2019,
35.5602

■ 36.1575, 30.1619,
39.9491

■ 39.6926, 36.0682,
44.7157

■ 43.7586, 42.9675,
49.8715

Harmonies

Analogous

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



21.0481, 11.9887, 37.2534



23.9109, 11.9887, 16.3830



22.7094, 11.9887, 4.8280

Triad

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



23.9109, 11.9887, 16.3830



7.9555, 11.9887, 0.5114



6.5774, 11.9887, 50.2684

Complementary

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



23.9109, 11.9887, 16.3830



19.5387, 36.9317, 13.1261

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.



4.6468, 11.9887, 27.5161



23.9109, 11.9887, 16.3830



5.2638, 11.9887, 2.5675

Square

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



23.9109, 11.9887, 16.3830



12.5048, 11.9887, 0.1354



4.2487, 11.9887, 10.2090



10.3527, 11.9887, 64.2037

Rectangle

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



23.9109, 11.9887, 16.3830



19.9002, 11.9887, 1.7711



4.2487, 11.9887, 10.2090



5.7418, 11.9887, 42.8466

Sweetspot

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



23.9112, 11.9894, 16.3832



64.4671, 53.5384, 71.1418



12.1361, 5.1958, 48.5073



13.3525, 10.6720, 14.5716



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.



23.9112, 11.9894, 16.3832



42.7011, 21.4224, 28.6922



21.1036, 10.8663, 1.5981



9.7609, 9.6287, 11.1301



16.1262, 8.0816, 11.2239



0.6634, 0.3292, 0.6065

Inverse Universe

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



23.9112, 11.9894, 16.3832



42.7011, 21.4224, 28.6922



25.4635, 39.3016, 44.3254



9.7609, 9.6287, 11.1301



16.1262, 8.0816, 11.2239



0.6634, 0.3292, 0.6065

Previews

White Background



This preview shows how the XYZ color 23.9109, 11.9887, 16.3830 looks on a white background.

Color Contrast Check

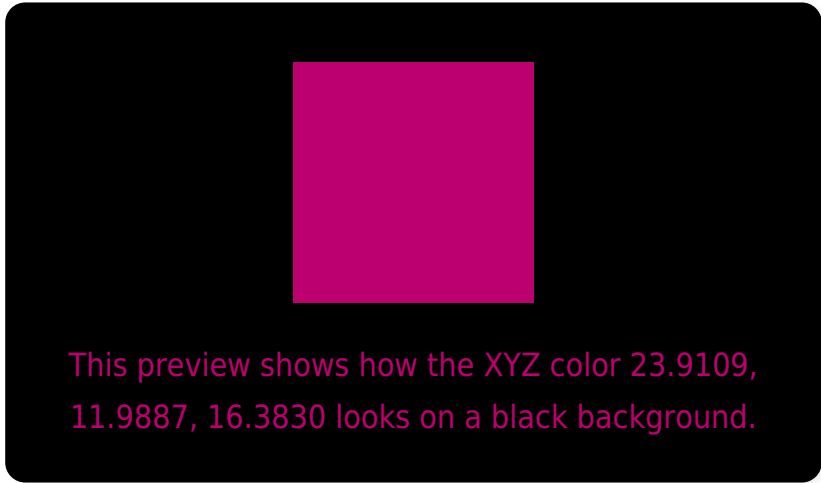
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

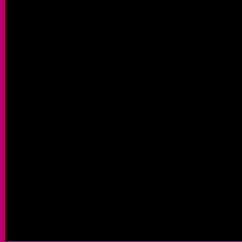
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 23.9109, 11.9887, 16.3830

Background



This preview shows how black text looks on a background with the XYZ color 23.9109, 11.9887, 16.3830.



This preview shows how white text looks on a background with the XYZ color 23.9109, 11.9887,

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

23.9109, 11.9887, 16.3830

Protanopia

13.7024, 12.8044, 35.4675

Deuteranopia

12.8368, 12.6747, 14.8666



Tritanopia

21.3819, 12.3051, 3.7308

Trichromacy



Original Color

23.9109, 11.9887, 16.3830

Protanomaly

13.8830, 9.1414, 27.0194

Deuteranomaly

14.6930, 9.8252, 15.0320

Tritanomaly

21.7391, 11.6993, 6.7426

Monochromacy



Original Color

23.9109, 11.9887, 16.3830

Achromatopsia

5.6565, 5.9511, 6.4808

Achromatomaly

9.3504, 5.9680, 9.2534

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.9109, 11.9887, 16.3830 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, 0, 112)` looks like.

```
.text, #text, p{  
    color:rgb(189, 0, 112)  
}
```

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, 0, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 0, 112) }
```

Border

The CSS property to change the border of an element to XYZ 23.9109, 11.9887, 16.3830 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, 0, 112) }
```


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

```
.border{ border-color:rgb(189, 0, 112) }
```

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

Here you see how a box with a 4 pixel rgb(189, 0, 112) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 0, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 0, 112);  
box-shadow:4px 4px 4px 4px rgb(189, 0,  
112) }
```

Background

The CSS property to change the background color of an element to XYZ 23.9109, 11.9887, 16.3830 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 0, 112) }
```

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

```
.background{ background-color: rgb(189, 0,  
112) }
```

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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