

Converting Colors

XYZ(23.1850, 11.6897, 12.9486)

Have a look what the booklet for
XYZ(23.1850, 11.6897, 12.9486)
contains.

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Color

**XYZ(23.2384, 11.7197,
12.8417)**

Conversions

Conversions Part 1

Format	Color
Hex	BD0063
RGB	189, 0, 99
RGB Percent	74%, 0%, 39%
CMY	0.2588, 0.9999, 0.6118
CMYK	0.00, 1.00, 0.48, 0.26
HSL	329°, 100%, 37%
HSV	329°, 100%, 74%
XYZ	23.2384, 11.7197, 12.8417
YIQ	67.7970, 80.8650, 70.8570

Conversions

Conversions Part 2

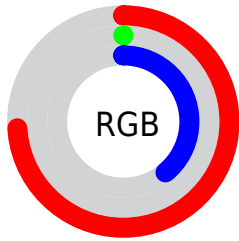
Format	Color
RYB	189, 0, 99
Decimal	12386403
CIELab	40.77, 67.96, -0.21
CIElCh	41, 67.965, 359.826
Yxy	11.7197, 0.4862, 0.2452
Android (android.graphics.Color)	4290576483 (0xFFBD0063)
YUV	67.7970, 15.3831, 106.2950
Hunter-Lab	34.2340, 61.2579, 1.7233

Details

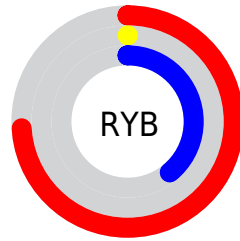
The XYZ color **23.2384, 11.7197, 12.8417** is a dark color, and the websafe version is hex **CC0066**. A complement of this color would be **20.0449, 37.1341, 15.7917**, and the grayscale version is **5.4320, 5.7149, 6.2235**.

A 20% lighter version of the original color is **48.0997, 28.8666, 31.8908**, and **9.6959, 4.9242, 3.8076** is the 20% darker color. If you saturate the color by 10%, you get **23.2375, 11.7193, 12.8376**, and if you desaturate by 10%, it is **23.9248, 12.3651, 15.3136**.

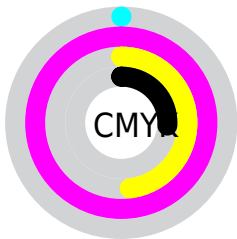
Distribution



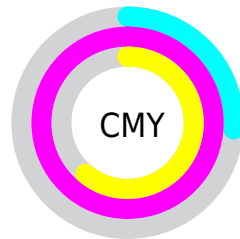
- Red (74%)
- Green (0%)
- Blue (39%)



- Red (74%)
- Yellow (0%)
- Blue (39%)



- Cyan (0%)
- Magenta (100%)
- Yellow (48%)
- Black (26%)





- Cyan (26%)
- Magenta (100%)
- Yellow (61%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 23.2384, 11.7197, 12.8417 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 23.2384, 11.7197, 12.8417 by changing the saturation by 10% instead.


 23.2384, 11.7197,
12.8417


 23.2384, 11.7197,
12.8417


261.4596,
202.5407, 221.0727


 14.8913, 6.5531,
7.1902


 48.2483, 28.9836,
31.7061


 8.8290, 3.1842,
3.5011


 65.6417, 41.8496,
45.7561


 4.6860, 1.2287,
1.3558

 86.7814, 58.0510,
63.4426

 2.0971, 0.0849,
0.1069

 112.0326, 77.9720,
85.1843

 0.6876, 0.0000,
0.0000

 141.7606,
101.9971, 111.3996

 0.0000, 0.0000,
0.0000

 176.3309,

130.5106, 142.5070

216.1088,
163.8970, 178.9252

■ 23.2384, 11.7197,
12.8417

■ 23.2384, 11.7197,
12.8417

■ 23.2375, 11.7193,
12.8376

■ 23.9248, 12.3651,
15.3136

■ 24.8851, 13.4789,
18.1208

■ 26.2025, 15.2254,
21.2981

■ 27.9192, 17.6869,
24.8665

■ 30.0713, 20.9335,
28.8445

■ 32.6905, 25.0265,
33.2489

■ 35.8055, 30.0213,
38.0953

■ 39.4425, 35.9684,
43.3984

■ 43.6259, 42.9146,
49.1719

Harmonies

Analogous

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



21.2449, 11.7197, 31.3287



23.2384, 11.7197, 12.8417



21.2883, 11.7197, 3.5797

Triad

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



23.2384, 11.7197, 12.8417



7.1310, 11.7197, 0.7918



7.0948, 11.7197, 52.2995

Complementary

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



23.2384, 11.7197, 12.8417



20.0449, 37.1341, 15.7917

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.



4.8711, 11.7197, 31.0748



23.2384, 11.7197, 12.8417



4.8874, 11.7197, 3.5201

Square

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



23.2384, 11.7197, 12.8417



11.1674, 11.7197, 0.1624



4.1966, 11.7197, 12.6802



11.1110, 11.7197, 62.0770

Rectangle

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



23.2384, 11.7197, 12.8417



18.2644, 11.7197, 1.3199



4.1966, 11.7197, 12.6802



6.1600, 11.7197, 45.7567

Sweetspot

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



23.2387, 11.7204, 12.8419



63.8282, 53.2828, 67.7772



13.2309, 5.7603, 48.5584



13.2004, 10.6112, 13.7708



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.



23.2387, 11.7204, 12.8419



41.4964, 20.9405, 22.3486



21.0213, 10.8334, 1.1650



9.7332, 9.6176, 10.9842



15.6739, 7.9007, 8.8422



0.6468, 0.3226, 0.5194

Inverse Universe

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



23.2387, 11.7204, 12.8419



41.4964, 20.9405, 22.3486



26.7141, 39.8018, 50.9112



9.7332, 9.6176, 10.9842



15.6739, 7.9007, 8.8422



0.6468, 0.3226, 0.5194

Previews

White Background



This preview shows how the XYZ color 23.2384, 11.7197, 12.8417 looks on a white background.

Color Contrast Check

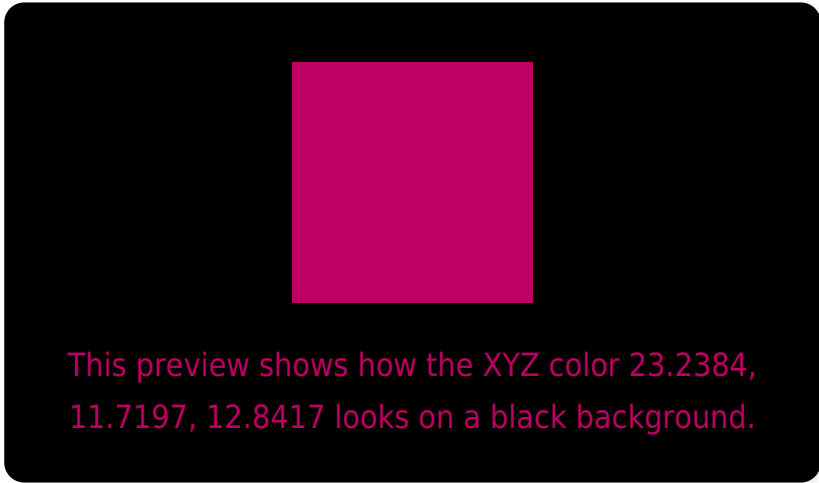
Large Text (above 18pt) WCAG AA ✓ Pass

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 23.2384, 11.7197, 12.8417

Background



This preview shows how black text looks on a background with the XYZ color 23.2384, 11.7197, 12.8417.



This preview shows how white text looks on a background with the XYZ color 23.2384, 11.7197,

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

23.2384, 11.7197, 12.8417

Protanopia

12.8888, 12.4174, 27.7041

Deuteranopia

12.5361, 12.3193, 11.6147



Tritanopia

21.3582, 12.0433, 3.2064

Trichromacy



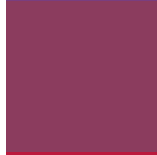
Original Color

23.2384, 11.7197, 12.8417



Protanomaly

13.5794, 9.1151, 21.1224



Deuteranomaly

14.2837, 9.5288, 11.6761



Tritanomaly

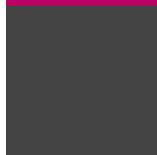
21.6835, 11.5970, 5.5105

Monochromacy



Original Color

23.2384, 11.7197, 12.8417



Achromatopsia

5.4944, 5.7805, 6.2950



Achromatomaly

8.9573, 5.7370, 8.0324

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.2384, 11.7197, 12.8417 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, 99)` looks like.

```
.text, #text, p{  
  color:rgb(189, 0, 99)  
}
```

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, 99) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 0, 99) }
```

Border

The CSS property to change the border of an element to XYZ 23.2384, 11.7197, 12.8417 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, 99) }
```


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

```
.border{ border-color:rgb(189, 0, 99) }
```

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, 99)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 0, 99); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 0, 99);  
box-shadow:4px 4px 4px 4px rgb(189, 0, 99)  
}
```

Background

The CSS property to change the background color of an element to XYZ 23.2384, 11.7197, 12.8417 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, 99) }
```

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

```
.background{ background-color: rgb(189, 0,  
99) }
```

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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