

Converting Colors

XYZ(23.0777, 12.7444, 8.9993)

Have a look what the booklet for
XYZ(23.0777, 12.7444, 8.9993)
contains.

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Color

**XYZ(23.1646, 12.7991,
9.0342)**

Conversions

Conversions Part 1

Format	Color
Hex	BD2651
RGB	189, 38, 81
RGB Percent	74%, 15%, 32%
CMY	0.2588, 0.8509, 0.6824
CMYK	0.00, 0.80, 0.57, 0.26
HSL	343°, 67%, 45%
HSV	343°, 80%, 74%
XYZ	23.1646, 12.7991, 9.0342
YIQ	88.0510, 76.1930, 45.3850

Conversions

Conversions Part 2

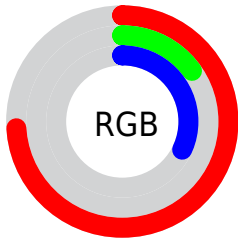
Format	Color
RYB	189, 38, 81
Decimal	12396113
CIELab	42.46, 60.34, 13.56
CIElCh	42, 61.846, 12.665
Yxy	12.7991, 0.5148, 0.2844
Android (android.graphics.Color)	4290586193 (0xFFBD2651)
YUV	88.0510, -3.4761, 88.5323
Hunter-Lab	35.7758, 52.9698, 10.0710

Details

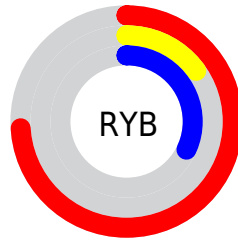
The XYZ color **23.1646, 12.7991, 9.0342** is a dark color, and the websafe version is hex **CC3366**. A complement of this color would be **24.1865, 38.8830, 33.4290**, and the grayscale version is **9.2837, 9.7672, 10.6365**.

A 20% lighter version of the original color is **48.2748, 31.0446, 24.5669**, and **9.3872, 4.8007, 2.1821** is the 20% darker color. If you saturate the color by 10%, you get **22.2486, 11.6994, 6.4719**, and if you desaturate by 10%, it is **24.4887, 14.5538, 12.2308**.

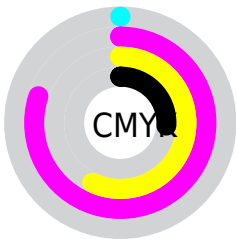
Distribution



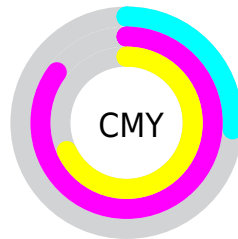
- Red (74%)
- Green (15%)
- Blue (32%)



- Red (74%)
- Yellow (15%)
- Blue (32%)



- Cyan (0%)
- Magenta (80%)
- Yellow (57%)
- Black (26%)





- Cyan (26%)
- Magenta (85%)
- Yellow (68%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 23.1646, 12.7991, 9.0342 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 23.1646, 12.7991, 9.0342 by changing the saturation by 10% instead.


 23.1646, 12.7991,
9.0342


 23.1646, 12.7991,
9.0342

261.0889,
209.6261, 193.8603


 14.8365, 7.2904,
4.6664


 48.1281, 30.9424,
24.5411


 8.7903, 3.6443,
1.9976


 65.4942, 44.3457,
36.5173


 4.6606, 1.4767,
0.5538

 86.6037, 61.1494,
51.8666

 2.0822, 0.2722,
0.0000

 111.8219, 81.7377,
71.0077

 0.6795, 0.0000,
0.0000

 141.5141,
106.4952, 94.3591

 0.0000, 0.0000,
0.0000

 176.0458,

135.8061, 122.3393

215.7823,
170.0550, 155.3668

■ 23.1646, 12.7991,
9.0342

■ 23.1646, 12.7991,
9.0342

■ 22.2486, 11.6994,
6.4719

■ 24.4887, 14.5538,
12.2308

■ 21.6535, 11.0894,
4.4847

■ 26.2665, 17.0453,
16.1037

■ 21.6476, 11.0834,
4.4652

■ 28.5380, 20.3455,
20.6918

■ 31.3383, 24.5174,
26.0303

■ 34.6995, 29.6174,
32.1523

■ 38.6509, 35.6974,
39.0886

■ 43.2196, 42.8053,
46.8682

■ 48.4311, 50.9858,
55.5189

■ 54.3095, 60.2810,
65.0670

Harmonies

Analogous

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



22.8756, 12.7991, 23.0623



23.1646, 12.7991, 9.0342



20.0121, 12.7991, 2.7779

Triad

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



23.1646, 12.7991, 9.0342



7.0483, 12.7991, 2.3035



9.6866, 12.7991, 55.5686

Complementary

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



23.1646, 12.7991, 9.0342



24.1865, 38.8830, 33.4290

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.



6.6957, 12.7991, 39.5537



23.1646, 12.7991, 9.0342



5.4614, 12.7991, 7.6047

Square

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



23.1646, 12.7991, 9.0342



10.3050, 12.7991, 0.8994



5.3514, 12.7991, 20.3513



14.2367, 12.7991, 56.9401

Rectangle

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



23.1646, 12.7991, 9.0342



16.7593, 12.7991, 1.3120



5.3514, 12.7991, 20.3513



8.4981, 12.7991, 51.4041

Sweetspot

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



23.1649, 12.7999, 9.0344



65.9082, 58.8157, 64.2387



21.3286, 10.9637, 49.1360



13.6414, 11.8310, 12.8764



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.



23.1649, 12.7999, 9.0344



39.0218, 20.1207, 8.7933



23.4161, 15.1184, 3.5187



9.6389, 9.5798, 10.4872



14.5942, 7.4688, 3.1564



0.6008, 0.3042, 0.2772

Inverse Universe

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



23.1649, 12.7999, 9.0344



39.0218, 20.1207, 8.7933



22.3492, 28.8147, 52.5278



9.6389, 9.5798, 10.4872



14.5942, 7.4688, 3.1564



0.6008, 0.3042, 0.2772

Previews

White Background



This preview shows how the XYZ color 23.1646, 12.7991, 9.0342 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 23.1646, 12.7991, 9.0342 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 23.1646, 12.7991, 9.0342

Background



This preview shows how black text looks on a background with the XYZ color 23.1646, 12.7991, 9.0342.



This preview shows how white text looks on a background with the XYZ color 23.1646, 12.7991,

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

23.1646, 12.7991, 9.0342

Protanopia

12.7785, 13.1644, 16.9064

Deuteranopia

13.2565, 13.0369, 8.2962



Tritanopia

22.2495, 12.8588, 4.1056

Trichromacy



Original Color

23.1646, 12.7991, 9.0342

Protanomaly

14.5404, 11.2744, 13.4664

Deuteranomaly

15.6011, 11.7244, 8.4620

Tritanomaly

22.4185, 12.7454, 5.5535

Monochromacy



Original Color

23.1646, 12.7991, 9.0342

Achromatopsia

9.2757, 9.7587, 10.6273

Achromatomaly

12.2873, 9.3962, 9.7604

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.1646, 12.7991, 9.0342 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, 38, 81)` looks like.

```
.text, #text, p{  
    color:rgb(189, 38, 81)  
}
```

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, 38, 81) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 38, 81) }
```

Border

The CSS property to change the border of an element to XYZ 23.1646, 12.7991, 9.0342 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, 38, 81) }
```


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

```
.border{ border-color:rgb(189, 38, 81) }
```

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

Here you see how a box with a 4 pixel rgb(189, 38, 81) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 38, 81); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 38, 81);  
box-shadow:4px 4px 4px 4px rgb(189, 38,  
81) }
```

Background

The CSS property to change the background color of an element to XYZ 23.1646, 12.7991, 9.0342 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 38, 81) }
```

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

```
.background{ background-color: rgb(189, 38,  
81) }
```

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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