

Converting Colors

XYZ(33.3870, 16.7399, 22.8733)

Have a look what the booklet for
XYZ(33.3870, 16.7399, 22.8733)
contains.

XYZ(33.3102, 16.6988, 22.9403)	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(33.3102, 16.6988,
22.9403)**

Conversions

Conversions Part 1

Format	Color
Hex	DB0083
RGB	219, 0, 131
RGB Percent	86%, 0%, 51%
CMY	0.1412, 0.9998, 0.4863
CMYK	0.00, 1.00, 0.40, 0.14
HSL	324°, 100%, 43%
HSV	324°, 100%, 86%
XYZ	33.3102, 16.6988, 22.9403
YIQ	80.4150, 88.4730, 87.1690

Conversions

Conversions Part 2

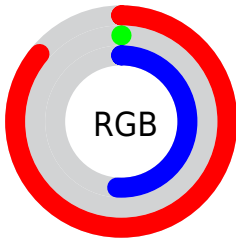
Format	Color
RYB	219, 0, 131
Decimal	14352515
CIELab	47.88, 77.18, -8.87
CIElCh	48, 77.690, 353.442
Yxy	16.6988, 0.4566, 0.2289
Android (android.graphics.Color)	4292542595 (0xFFDB0083)
YUV	80.4150, 24.9384, 121.5390
Hunter-Lab	40.8642, 73.9910, -4.6793

Details

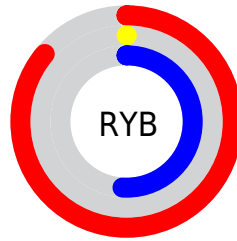
The XYZ color **33.3102, 16.6988, 22.9403** is a dark color, and the websafe version is hex **FF3399**. The color can be described as dark washed rose. A complement of this color would be **27.0954, 51.3687, 17.7294**, and the grayscale version is **7.6516, 8.0500, 8.7665**.

A 20% lighter version of the original color is **53.7189, 32.3750, 48.7651**, and **15.6235, 7.8783, 8.6799** is the 20% darker color. If you saturate the color by 10%, you get **33.3089, 16.6983, 22.9339**, and if you desaturate by 10%, it is **34.2183, 17.5194, 26.3126**.

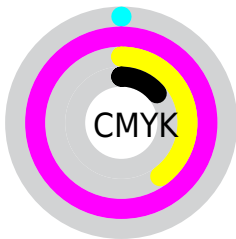
Distribution



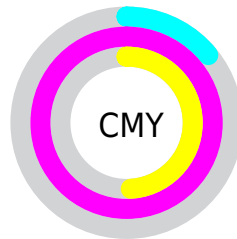
- Red (86%)
- Green (0%)
- Blue (51%)



- Red (86%)
- Yellow (0%)
- Blue (51%)



- Cyan (0%)
- Magenta (100%)
- Yellow (40%)
- Black (14%)





- Cyan (14%)
- Magenta (100%)
- Yellow (49%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 33.3102, 16.6988, 22.9403 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 33.3102, 16.6988, 22.9403 by changing the saturation by 10% instead.


 33.3102, 16.6988,
22.9403


 33.3102, 16.6988,
22.9403


308.6855,
233.4306, 280.5302


 22.5246, 10.0200,
14.3445


 64.2110, 37.8072,
49.2172

 14.3616, 5.4122,
8.2192


 85.0568, 53.0055,
67.7355


 8.4560, 2.4911,
4.1458


 109.9867, 71.8125,
90.3983

 4.4423, 0.8722,
1.7056

 139.3662, 94.6125,
117.6243

 1.9553, 0.0000,
0.3646

 173.5604,
121.7899, 149.8319

 0.6087, 0.0000,
0.0000

 212.9348,

 0.0000, 0.0000,

153.7291, 187.4398

0.0000

257.8547,
190.8146, 230.8663

■ 33.3102, 16.6988,
22.9403

■ 33.3102, 16.6988,
22.9403

■ 33.3089, 16.6983,
22.9339

■ 34.2183, 17.5194,
26.3126

■ 35.5016, 19.0072,
30.0659

■ 37.2673, 21.3750,
34.2418

■ 39.5761, 24.7422,
38.8661

■ 42.4792, 29.2096,
43.9614

■ 46.0216, 34.8654,
49.5477

■ 50.2438, 41.7888,
55.6439

■ 55.1827, 50.0522,
62.2671

■ 60.8726, 59.7226,
69.4336

Harmonies

Analogous

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



29.2944, 16.6988, 52.0794



33.3102, 16.6988, 22.9403



31.6645, 16.6988, 6.7688

Triad

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



33.3102, 16.6988, 22.9403



11.1044, 16.6988, 0.7880



9.1388, 16.6988, 69.9100

Complementary

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



33.3102, 16.6988, 22.9403



27.0954, 51.3687, 17.7294

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.



6.4610, 16.6988, 38.1867



33.3102, 16.6988, 22.9403



7.3410, 16.6988, 3.5444

Square

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



33.3102, 16.6988, 22.9403



17.4562, 16.6988, 0.3752



5.9162, 16.6988, 14.1321



14.3862, 16.6988, 89.4543

Rectangle

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



33.3102, 16.6988, 22.9403



27.7617, 16.6988, 2.4827



5.9162, 16.6988, 14.1321



7.9788, 16.6988, 59.5486

Sweetspot

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



33.3107, 16.6998, 22.9406



70.7491, 58.6957, 78.3023



16.7760, 7.1720, 67.5180



14.5774, 11.6302, 15.9593



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

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



33.3107, 16.6998, 22.9406



46.9496, 23.5439, 31.9966



29.3582, 15.1188, 2.1269



13.3813, 13.1816, 15.2692



19.8061, 9.9235, 13.8909



1.3253, 0.6598, 1.1221

Inverse Universe

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



33.3107, 16.6998, 22.9406



46.9496, 23.5439, 31.9966



35.4221, 54.6994, 61.5773



13.3813, 13.1816, 15.2692



19.8061, 9.9235, 13.8909



1.3253, 0.6598, 1.1221

Previews

White Background



This preview shows how the XYZ color 33.3102, 16.6988, 22.9403 looks on a white background.

Color Contrast Check

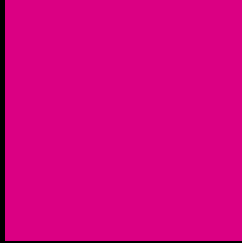
Large Text (above 18pt) WCAG AA ✓ Pass

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 33.3102, 16.6988, 22.9403 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 33.3102, 16.6988, 22.9403

Background



This preview shows how black text looks on a background with the XYZ color 33.3102, 16.6988, 22.9403.



This preview shows how white text looks on a background with the XYZ color 33.3102, 16.6988,

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

33.3102, 16.6988, 22.9403

Protanopia

18.8200, 17.4195, 49.9473

Deuteranopia

17.6192, 17.2786, 20.8188



Tritanopia

29.8949, 17.1601, 5.1048

Trichromacy



Original Color

33.3102, 16.6988, 22.9403



Protanomaly

19.1239, 12.4931, 37.9627



Deuteranomaly

20.2530, 13.3581, 20.9130



Tritanomaly

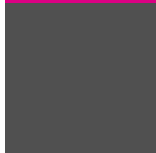
30.3480, 16.2807, 9.3276

Monochromacy



Original Color

33.3102, 16.6988, 22.9403



Achromatopsia

7.6249, 8.0220, 8.7359



Achromatomaly

12.7960, 8.0938, 12.6922

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.3102, 16.6988, 22.9403 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(219, 0, 131)` looks like.

```
.text, #text, p{  
    color:rgb(219, 0, 131)  
}
```

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(219, 0, 131) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(219, 0, 131) }
```

Border

The CSS property to change the border of an element to XYZ 33.3102, 16.6988, 22.9403 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(219, 0, 131) }
```


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

```
.border{ border-color:rgb(219, 0, 131) }
```

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

Here you see how a box with a 4 pixel rgb(219, 0, 131) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(219, 0, 131); -webkit-box-  
shadow:4px 4px 4px 4px rgb(219, 0, 131);  
box-shadow:4px 4px 4px 4px rgb(219, 0,  
131) }
```

Background

The CSS property to change the background color of an element to XYZ 33.3102, 16.6988, 22.9403 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(219, 0, 131) }
```

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

```
.background{ background-color: rgb(219, 0,  
131) }
```

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