

Converting Colors

XYZ(33.1016, 15.5040, 72.0537)

Have a look what the booklet for
XYZ(33.1016, 15.5040, 72.0537)
contains.

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Color

**XYZ(32.9830, 15.4491,
71.7646)**

Conversions

Conversions Part 1

Format	Color
Hex	B700E0
RGB	183, 0, 224
RGB Percent	72%, 0%, 88%
CMY	0.2823, 0.9999, 0.1216
CMYK	0.18, 1.00, 0.00, 0.12
HSL	289°, 100%, 44%
HSV	289°, 100%, 88%
XYZ	32.9830, 15.4491, 71.7646
YIQ	80.2530, 37.1640, 108.4600

Conversions

Conversions Part 2

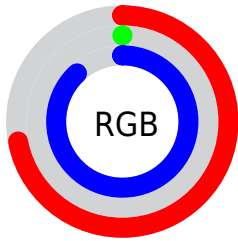
Format	Color
RYB	183, 0, 224
Decimal	11993312
CIELab	46.24, 83.07, -66.74
CIELCh	46, 106.558, 321.223
Yxy	15.4491, 0.2744, 0.1285
Android (android.graphics.Color)	4290183392 (0xFFB700E0)
YUV	80.2530, 70.8673, 90.1091
Hunter-Lab	39.3053, 81.0036, -80.7393

Details

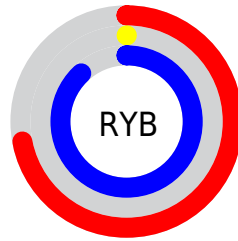
The XYZ color **32.9830, 15.4491, 71.7646** is a dark color, and the websafe version is hex **CC33FF**. The color can be described as middle washed purple. A complement of this color would be **27.5708, 53.7832, 8.9285**, and the grayscale version is **7.5374, 7.9299, 8.6357**.

A 20% lighter version of the original color is **59.0144, 33.7654, 98.0147**, and **15.3801, 7.1122, 37.6080** is the 20% darker color. If you saturate the color by 10%, you get **32.9830, 15.4491, 71.7649**, and if you desaturate by 10%, it is **34.2681, 16.5493, 71.9095**.

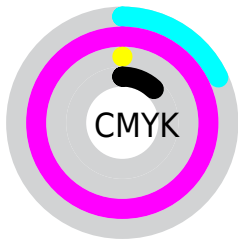
Distribution



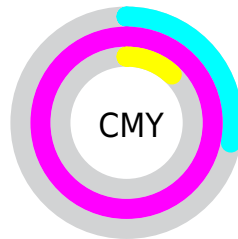
- Red (72%)
- Green (0%)
- Blue (88%)



- Red (72%)
- Yellow (0%)
- Blue (88%)



- Cyan (18%)
- Magenta (100%)
- Yellow (0%)
- Black (12%)





- Cyan (28%)
- Magenta (100%)
- Yellow (12%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 32.9830, 15.4491, 71.7646 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 32.9830, 15.4491, 71.7646 by changing the saturation by 10% instead.


 32.9830, 15.4491,
71.7646

 32.9830, 15.4491,
71.7646


307.2395,
226.0686, 485.6773

 22.2726, 9.1352,
52.4807


 63.7038, 35.6391,
123.4264


 14.1751, 4.8295,
37.0035


 84.4450, 50.2840,
156.6414


 8.3250, 2.1475,
24.9144


 109.2604, 68.4747,
195.3372

 4.3572, 0.6912,
15.7949

 138.5155, 90.5956,
239.9324

 1.9061, 0.0000,
9.2263

 172.5756,
117.0310, 290.8455

 0.5804, 0.0000,
4.7903

 211.8061,

 0.0000, 0.0000,

148.1654, 348.4950

2.0682

256.5722,
184.3831, 413.2994

■ 0.0000, 0.0000,
0.5967

■ 0.0000, 0.0000,
0.0000

■ 32.9830, 15.4491,
71.7646

■ 32.9830, 15.4491,
71.7646

■ 32.9830, 15.4491,
71.7649

■ 34.2681, 16.5493,
71.9095

■ 35.9227, 18.3471,
72.1693

■ 38.0584, 21.0641,
72.5812

■ 40.7385, 24.8265,
73.1661

44.0161, 29.7405,
73.9419

47.9379, 35.8991,
74.9239

52.5459, 43.3859,
76.1261

57.8784, 52.2769,
77.5612

63.9706, 62.6426,
79.2409

Harmonies

Analogous

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



21.9717, 15.4491, 120.1042



32.9830, 15.4491, 71.7646



39.6506, 15.4491, 25.6844

Triad

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



32.9830, 15.4491, 71.7646



17.5187, 15.4491, 0.0000



3.6675, 15.4491, 42.2614

Complementary

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



32.9830, 15.4491, 71.7646



27.5708, 53.7832, 8.9285

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.



3.2918, 15.4491, 10.2754



32.9830, 15.4491, 71.7646



9.2173, 15.4491, 0.0000

Square

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



32.9830, 15.4491, 71.7646



28.5934, 15.4491, 0.0000



4.8315, 15.4491, 0.9084



6.2259, 15.4491, 93.9256

Rectangle

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



32.9830, 15.4491, 71.7646



39.3996, 15.4491, 8.8324



4.8315, 15.4491, 0.9084



3.3399, 15.4491, 28.5798

Sweetspot

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



32.9838, 15.4497, 71.7649



70.3449, 57.9605, 102.0877



14.2504, 6.9732, 71.1162



14.4719, 11.4487, 21.6970



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.



32.9838, 15.4497, 71.7649



44.1540, 20.6771, 96.2716



36.4964, 18.1499, 31.7476



14.0361, 13.8022, 17.3120



19.2885, 9.0389, 41.7764



1.4017, 0.6599, 2.8987

Inverse Universe

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



31.1412, 16.0078, 3.5474



41.7465, 21.4626, 4.5975



27.7914, 53.7658, 14.8647



13.8092, 13.7413, 14.7653



18.1567, 9.3297, 2.2250



1.2888, 0.6588, 0.3139

Previews

White Background



This preview shows how the XYZ color 32.9830, 15.4491, 71.7646 looks on a white background.

Color Contrast Check

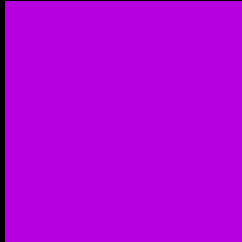
Large Text (above 18pt) WCAG AA ✓ Pass

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 32.9830, 15.4491, 71.7646 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

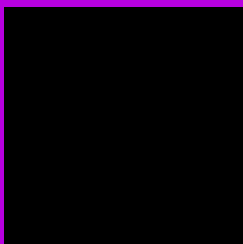
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 32.9830, 15.4491, 71.7646

Background



This preview shows how black text looks on a background with the XYZ color 32.9830, 15.4491, 71.7646.



This preview shows how white text looks on a background with the XYZ color 32.9830, 15.4491,

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

32.9830, 15.4491, 71.7646

Protanopia

19.1228, 16.0614, 74.7653

Deuteranopia

16.3261, 16.1581, 56.2912



Tritanopia

21.0272, 15.7869, 12.5286

Trichromacy



Original Color

32.9830, 15.4491, 71.7646



Protanomaly

18.1093, 10.8185, 73.0852



Deuteranomaly

16.0824, 10.5124, 60.8560



Tritanomaly

23.2351, 13.5221, 26.5847

Monochromacy



Original Color

32.9830, 15.4491, 71.7646



Achromatopsia

7.6249, 8.0220, 8.7359



Achromatomaly

12.6848, 7.8155, 22.6698

CSS Examples

Text

The CSS property to change the color of the text to XYZ 32.9830, 15.4491, 71.7646 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(183, 0, 224)` looks like.

```
.text, #text, p{  
    color:rgb(183, 0, 224)  
}
```

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(183, 0, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(183, 0, 224) }
```

Border

The CSS property to change the border of an element to XYZ 32.9830, 15.4491, 71.7646 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(183, 0, 224) }
```


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

```
.border{ border-color:rgb(183, 0, 224) }
```

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

Here you see how a box with a 4 pixel rgb(183, 0, 224) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(183, 0, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(183, 0, 224);  
box-shadow:4px 4px 4px 4px rgb(183, 0,  
224) }
```

Background

The CSS property to change the background color of an element to XYZ 32.9830, 15.4491, 71.7646 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(183, 0, 224) }
```

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

```
.background{ background-color: rgb(183, 0,  
224) }
```

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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