

Converting Colors

XYZ(33.2049, 15.6747, 66.7507)

Have a look what the booklet for
XYZ(33.2049, 15.6747, 66.7507)
contains.

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Color

**XYZ(33.2634, 15.7011,
66.9231)**

Conversions

Conversions Part 1

Format	Color
Hex	BC00D9
RGB	188, 0, 217
RGB Percent	74%, 0%, 85%
CMY	0.2627, 0.9999, 0.1490
CMYK	0.13, 1.00, 0.00, 0.15
HSL	292°, 100%, 43%
HSV	292°, 100%, 85%
XYZ	33.2634, 15.7011, 66.9231
YIQ	80.9500, 42.3910, 107.3430

Conversions

Conversions Part 2

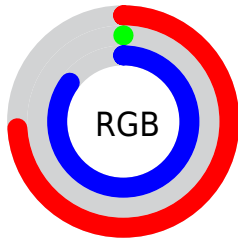
Format	Color
RYB	188, 0, 217
Decimal	12320985
CIELab	46.58, 82.61, -62.15
CIELCh	47, 103.381, 323.046
Yxy	15.7011, 0.2870, 0.1355
Android (android.graphics.Color)	4290511065 (0xFFBC00D9)
YUV	80.9500, 67.0727, 93.8829
Hunter-Lab	39.6246, 80.5011, -72.3993

Details

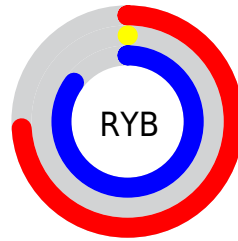
The XYZ color **33.2634, 15.7011, 66.9231** is a dark color, and the websafe version is hex **9900CC**. The color can be described as middle washed purple. A complement of this color would be **25.3202, 49.8874, 8.2952**, and the grayscale version is **7.6797, 8.0796, 8.7987**.

A 20% lighter version of the original color is **60.8580, 34.8419, 98.1253**, and **15.4863, 7.2403, 34.2995** is the 20% darker color. If you saturate the color by 10%, you get **33.2634, 15.7011, 66.9234**, and if you desaturate by 10%, it is **34.2672, 16.6365, 67.0510**.

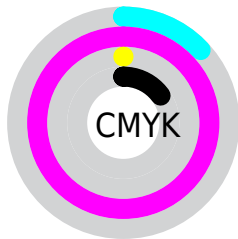
Distribution



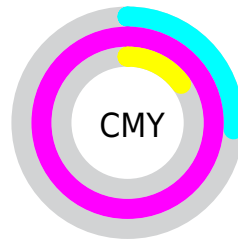
- Red (74%)
- Green (0%)
- Blue (85%)



- Red (74%)
- Yellow (0%)
- Blue (85%)



- Cyan (13%)
- Magenta (100%)
- Yellow (0%)
- Black (15%)





- Cyan (26%)
- Magenta (100%)
- Yellow (15%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 33.2634, 15.7011, 66.9231 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 33.2634, 15.7011, 66.9231 by changing the saturation by 10% instead.

 33.2634, 15.7011,
66.9231


 33.2634, 15.7011,
66.9231

308.4790,
227.5715, 468.1650


 22.4885, 9.3129,
48.5609


 64.1385, 36.0785,
116.4498


 14.3349, 4.9458,
33.9082


 84.9694, 50.8365,
148.4514


 8.4372, 2.2155,
22.5463


 109.8830, 69.1532,
185.8366

 4.4301, 0.7284,
14.0567

 139.2446, 91.4131,
229.0239

 1.9482, 0.0000,
8.0209

 173.4197,
118.0004, 278.4319

 0.6046, 0.0000,
4.0204

 212.7735,

 0.0000, 0.0000,

149.2997, 334.4790

1.6365

257.6715,
185.6952, 397.5839

■ 0.0000, 0.0000,
0.3167

■ 0.0000, 0.0000,
0.0000

■ 33.2634, 15.7011,
66.9231

■ 33.2634, 15.7011,
66.9231

■ 33.2634, 15.7011,
66.9234

■ 34.2672, 16.6365,
67.0510

■ 35.6009, 18.2112,
67.2846

■ 37.3695, 20.6340,
67.6591

■ 39.6312, 24.0213,
68.1937

■ 42.4350, 28.4711,
68.9048

■ 45.8240, 34.0694,
69.8068

■ 49.8368, 40.8933,
70.9124

■ 54.5087, 49.0131,
72.2335

■ 59.8723, 58.4941,
73.7808

Harmonies

Analogous

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



22.6986, 15.7011, 113.9019



33.2634, 15.7011, 66.9231



39.2575, 15.7011, 23.7628

Triad

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



33.2634, 15.7011, 66.9231



17.0989, 15.7011, 0.0000



4.0480, 15.7011, 44.4504

Complementary

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



33.2634, 15.7011, 66.9231



25.3202, 49.8874, 8.2952

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.



3.5491, 15.7011, 11.8094



33.2634, 15.7011, 66.9231



9.1638, 15.7011, 0.0000

Square

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



33.2634, 15.7011, 66.9231



27.7982, 15.7011, 0.0000



4.9824, 15.7011, 1.3029



6.8022, 15.7011, 94.1068

Rectangle

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



33.2634, 15.7011, 66.9231



38.6572, 15.7011, 8.2295



4.9824, 15.7011, 1.3029



3.6720, 15.7011, 30.7604

Sweetspot

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



33.2641, 15.7018, 66.9234



71.6482, 58.6324, 102.1487



13.0565, 6.0736, 66.1301



14.7872, 11.6112, 21.7118



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.



33.2641, 15.7018, 66.9234



47.8447, 22.5797, 96.4444



33.4275, 16.6769, 26.6784



13.4343, 13.1820, 16.4885



20.2009, 9.5381, 40.5147



1.3572, 0.6429, 2.6270

Inverse Universe

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



28.8375, 14.8409, 2.5081



41.5299, 21.3760, 3.4565



26.1163, 50.1473, 15.1334



13.1265, 13.0797, 13.9276



17.4786, 8.9925, 1.6343



1.1558, 0.5920, 0.2295

Previews

White Background



This preview shows how the XYZ color 33.2634, 15.7011, 66.9231 looks on a white background.

Color Contrast Check

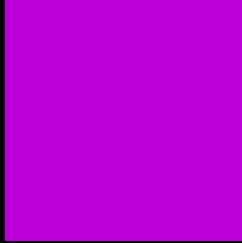
Large Text (above 18pt) WCAG AA ✓ Pass

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 33.2634, 15.7011, 66.9231 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

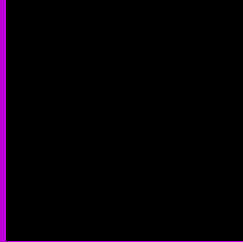
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 33.2634, 15.7011, 66.9231

Background



This preview shows how black text looks on a background with the XYZ color 33.2634, 15.7011, 66.9231.



This preview shows how white text looks on a background with the XYZ color 33.2634, 15.7011,

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

33.2634, 15.7011, 66.9231

Protanopia

19.5054, 16.3823, 76.2628

Deuteranopia

16.6780, 16.2989, 58.1441



Tritanopia

22.1501, 16.0230, 11.8228

Trichromacy



Original Color

33.2634, 15.7011, 66.9231



Protanomaly

18.1026, 10.9214, 72.3881



Deuteranomaly

16.0289, 10.4990, 60.2132



Tritanomaly

24.1946, 13.9095, 25.0765

Monochromacy



Original Color

33.2634, 15.7011, 66.9231



Achromatopsia

7.8210, 8.2283, 8.9606



Achromatomaly

13.0030, 8.0608, 21.9896

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.2634, 15.7011, 66.9231 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(188, 0, 217)` looks like.

```
.text, #text, p{  
    color:rgb(188, 0, 217)  
}
```

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(188, 0, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 0, 217) }
```

Border

The CSS property to change the border of an element to XYZ 33.2634, 15.7011, 66.9231 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(188, 0, 217) }
```


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

```
.border{ border-color:rgb(188, 0, 217) }
```

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

Here you see how a box with a 4 pixel rgb(188, 0, 217) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 0, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 0, 217);  
box-shadow:4px 4px 4px 4px rgb(188, 0,  
217) }
```

Background

The CSS property to change the background color of an element to XYZ 33.2634, 15.7011, 66.9231 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 0, 217) }
```

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

```
.background{ background-color: rgb(188, 0,  
217) }
```

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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