

Converting Colors

XYZ(33.1573, 16.9195, 72.3242)

Have a look what the booklet for
XYZ(33.1573, 16.9195, 72.3242)
contains.

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Color

**XYZ(33.2153, 16.9619,
72.0443)**

Conversions

Conversions Part 1

Format	Color
Hex	B42DE0
RGB	180, 45, 224
RGB Percent	71%, 18%, 88%
CMY	0.2941, 0.8235, 0.1216
CMYK	0.20, 0.80, 0.00, 0.12
HSL	285°, 74%, 53%
HSV	285°, 80%, 88%
XYZ	33.2153, 16.9619, 72.0443
YIQ	105.7710, 23.0010, 84.2890

Conversions

Conversions Part 2

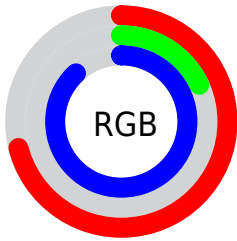
Format	Color
R _{YB}	180, 45, 224
Decimal	11808224
CIE Lab	48.21, 75.41, -63.57
CIE LCh	48, 98.627, 319.870
Yxy	16.9619, 0.2718, 0.1388
Android (android.graphics.Color)	4289998304 (0xFFB42DE0)
YUV	105.7710, 58.2869, 65.0988
Hunter-Lab	41.1848, 71.8857, -74.8862

Details

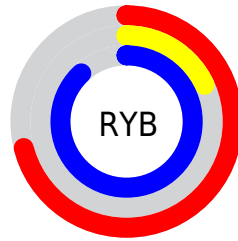
The XYZ color **33.2153, 16.9619, 72.0443** is a light color, and the websafe version is hex **9900CC**. The color can be described as light washed purple. A complement of this color would be **31.2496, 55.6250, 11.5728**, and the grayscale version is **13.4796, 14.1816, 15.4437**.

A 20% lighter version of the original color is **59.2429, 36.2607, 98.4843**, and **15.0939, 6.9647, 37.5946** is the 20% darker color. If you saturate the color by 10%, you get **31.3195, 15.0348, 71.7726**, and if you desaturate by 10%, it is **35.6164, 19.8221, 72.4701**.

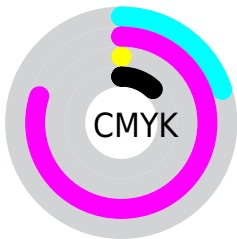
Distribution



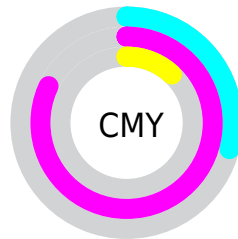
- Red (71%)
- Green (18%)
- Blue (88%)



- Red (71%)
- Yellow (18%)
- Blue (88%)



- Cyan (20%)
- Magenta (80%)
- Yellow (0%)
- Black (12%)



- Cyan (29%)
- Magenta (82%)
- Yellow (12%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 33.2153, 16.9619, 72.0443 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 33.2153, 16.9619, 72.0443 by changing the saturation by 10% instead.

■ 33.2153, 16.9619,
72.0443

■ 33.2153, 16.9619,
72.0443

308.2666,
234.9527, 486.6775

■ 22.4515, 10.2073,
52.7078

■ 64.0640, 38.2603,
123.8278

■ 14.3075, 5.5366,
37.1834

■ 84.8795, 53.5728,
157.1119

■ 8.4179, 2.5654,
25.0527

■ 109.7763, 72.5069,
195.8823

■ 4.4176, 0.9093,
15.8969

■ 139.1197, 95.4468,
240.5575

■ 1.9410, 0.0000,
9.2977

■ 173.2750,
122.7769, 291.5561

■ 0.6005, 0.0000,
4.8364

212.6078,

■ 0.0000, 0.0000,

154.8817, 349.2966

2.0945

257.4832,
192.1455, 414.1975

■ 0.0000, 0.0000,
0.6125

■ 0.0000, 0.0000,
0.0000

■ 33.2153, 16.9619,
72.0443

■ 33.2153, 16.9619,
72.0443

■ 31.3195, 15.0348,
71.7726

■ 35.6164, 19.8221,
72.4701

■ 29.8169, 13.8202,
71.6173

■ 38.5838, 23.7396,
73.0699

■ 29.8039, 13.8102,
71.6161

■ 42.1720, 28.8212,
73.8616

■ 46.4279, 35.1601,
74.8608

■ 51.3936, 42.8398,
76.0814

■ 57.1078, 51.9367,
77.5361

■ 63.6061, 62.5212,
79.2367

■ 70.9217, 74.6590,
81.1939

■ 79.0859, 88.4120,
83.4182

Harmonies

Analogous

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



22.7176, 16.9619, 114.6424



33.2153, 16.9619, 72.0443



39.7351, 16.9619, 28.5815

Triad

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



33.2153, 16.9619, 72.0443



19.3471, 16.9619, 0.0000



4.7383, 16.9619, 40.8371

Complementary

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



33.2153, 16.9619, 72.0443



31.2496, 55.6250, 11.5728

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.



4.4114, 16.9619, 11.0763



33.2153, 16.9619, 72.0443



10.9448, 16.9619, 0.0000

Square

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



33.2153, 16.9619, 72.0443



29.9766, 16.9619, 0.5394



6.2086, 16.9619, 1.4260



7.3695, 16.9619, 87.7486

Rectangle

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



33.2153, 16.9619, 72.0443



39.7599, 16.9619, 11.2343



6.2086, 16.9619, 1.4260



4.4056, 16.9619, 28.2868

Sweetspot

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



33.2161, 16.9626, 72.0447



73.2178, 64.2323, 103.1468



18.1724, 13.2107, 72.1134



15.0912, 12.8270, 21.9304



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.



33.2161, 16.9626, 72.0447



40.6216, 19.0205, 96.1381



39.8413, 20.9894, 44.7328



13.9487, 13.7571, 17.3079



17.4572, 8.0948, 41.6907



1.2894, 0.6020, 2.8935

Inverse Universe

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



33.4825, 18.4458, 11.2476



42.4680, 21.9284, 7.8506



29.5732, 54.6035, 18.5989



13.8447, 13.7555, 14.9524



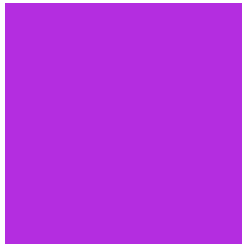
18.3338, 9.4005, 3.1578



1.3061, 0.6657, 0.4046

Previews

White Background



This preview shows how the XYZ color 33.2153, 16.9619, 72.0443 looks on a white background.

Color Contrast Check

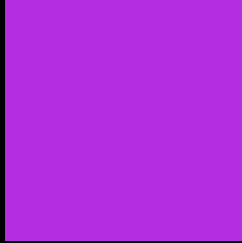
Large Text (above 18pt) WCAG AA ✓ Pass

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 33.2153, 16.9619, 72.0443 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

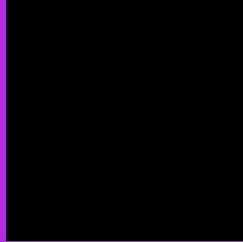
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 33.2153, 16.9619, 72.0443

Background



This preview shows how black text looks on a background with the XYZ color 33.2153, 16.9619, 72.0443.



This preview shows how white text looks on a background with the XYZ color 33.2153, 16.9619,

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

33.2153, 16.9619, 72.0443

Protanopia

20.5357, 17.3094, 80.1006

Deuteranopia

17.5019, 17.1788, 60.7859



Tritanopia

21.3908, 16.8251, 14.6905

Trichromacy



Original Color

33.2153, 16.9619, 72.0443



Protanomaly

19.8711, 13.6534, 76.4510



Deuteranomaly

17.9313, 13.4101, 64.5941



Tritanomaly

24.2044, 15.8181, 28.9716

Monochromacy



Original Color

33.2153, 16.9619, 72.0443



Achromatopsia

13.6994, 14.4128, 15.6956



Achromatomaly

18.2680, 13.4971, 30.0761

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.2153, 16.9619, 72.0443 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(180, 45, 224)` looks like.

```
.text, #text, p{  
    color:rgb(180, 45, 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(180, 45, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 45, 224) }
```

Border

The CSS property to change the border of an element to XYZ 33.2153, 16.9619, 72.0443 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(180, 45, 224) }
```


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

```
.border{ border-color:rgb(180, 45, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 45, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 45, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 45, 224);  
box-shadow:4px 4px 4px 4px rgb(180, 45,  
224) }
```

Background

The CSS property to change the background color of an element to XYZ 33.2153, 16.9619, 72.0443 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 45, 224) }
```

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

```
.background{ background-color: rgb(180, 45,  
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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