

# Converting Colors

XYZ(34.0685, 19.2232, 72.4362)

Have a look what the booklet for  
XYZ(34.0685, 19.2232, 72.4362)  
contains.

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# Color

**XYZ(34.0048, 19.2271,  
72.4400)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B246E0
RGB	178, 70, 224
RGB Percent	70%, 27%, 88%
CMY	0.3020, 0.7255, 0.1216
CMYK	0.21, 0.69, 0.00, 0.12
HSL	282°, 71%, 58%
HSV	282°, 69%, 88%
XYZ	34.0048, 19.2271, 72.4400
YIQ	119.8480, 14.9340, 70.7900

# Conversions

## Conversions Part 2

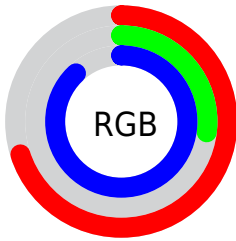
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">178, 70, 224</a>
Decimal	<a href="#">11683552</a>
CIELab	<a href="#">50.95, 66.37, -59.16</a>
CIELCh	<a href="#">51, 88.909, 318.285</a>
Yxy	<a href="#">19.2271, 0.2706, 0.1530</a>
Android (android.graphics.Color)	<a href="#">4289873632</a> ( <a href="#">0xFFB246E0</a> )
YUV	<a href="#">119.8480, 51.3469, 50.9993</a>
Hunter-Lab	<a href="#">43.8487, 61.6920, -67.2556</a>

# Details

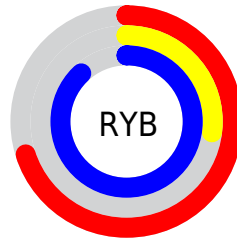
The XYZ color **34.0048, 19.2271, 72.4400** is a light color, and the websafe version is hex **9933CC**. The color can be described as light muted purple. A complement of this color would be **34.9641, 57.4669, 15.0444**, and the grayscale version is **17.6430, 18.5618, 20.2138**.

A 20% lighter version of the original color is **60.4359, 40.1462, 99.1714**, and **14.9530, 6.8921, 37.5880** is the 20% darker color. If you saturate the color by 10%, you get **31.3580, 16.1564, 71.9871**, and if you desaturate by 10%, it is **37.2505, 23.3824, 73.0713**.

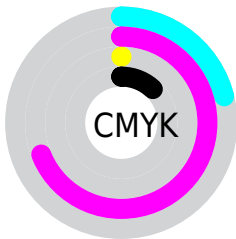
# Distribution



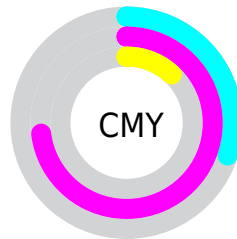
- Red (70%)
- Green (27%)
- Blue (88%)



- Red (70%)
- Yellow (27%)
- Blue (88%)



- Cyan (21%)
- Magenta (69%)
- Yellow (0%)
- Black (12%)




- Cyan (30%)
- Magenta (73%)
- Yellow (12%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.0048, 19.2271, 72.4400 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 34.0048, 19.2271, 72.4400 by changing the saturation by 10% instead.




 34.0048, 19.2271,  
72.4400


 34.0048, 19.2271,  
72.4400


311.7390,  
247.6996, 488.0903


 23.0602, 11.8345,  
53.0292

 65.2854, 42.1175,  
124.3954


 14.7589, 6.6311,  
37.4382


 86.3521, 58.3841,  
157.7771


 8.7356, 3.2325,  
25.2485


 111.5235, 78.3774,  
196.6528

 4.6248, 1.2543,  
16.0416

 141.1650,  
102.4819, 241.4410

 2.0613, 0.1054,  
9.3989

 175.6419,  
131.0820, 292.5603

 0.6681, 0.0000,  
4.9019

215.3197,

 0.0000, 0.0000,

164.5621, 350.4293

2.1321

260.5636,  
203.3065, 415.4664

■ 0.0000, 0.0000,  
0.6348

■ 0.0000, 0.0000,  
0.0000

■ 34.0048, 19.2271,  
72.4400

■ 34.0048, 19.2271,  
72.4400

■ 31.3580, 16.1564,  
71.9871

■ 37.2505, 23.3824,  
73.0713

■ 29.2449, 14.0446,  
71.6909

■ 41.1455, 28.7248,  
73.8972

■ 27.5719, 12.7047,  
71.5204

■ 45.7377, 35.3470,  
74.9334

■ 27.3774, 12.5593,  
71.5026

■ 51.0690, 43.3321,  
76.1937

57.1782, 52.7556,  
77.6906

64.1010, 63.6879,  
79.4359

71.8709, 76.1942,  
81.4403

80.5192, 90.3363,  
83.7142

84.5482, 95.1170,  
84.4246

# Harmonies

## Analogous

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



24.1028, 19.2271, 108.6449



34.0048, 19.2271, 72.4400



40.3044, 19.2271, 32.3732

# Triad

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



34.0048, 19.2271, 72.4400



21.9234, 19.2271, 0.0553



6.4711, 19.2271, 40.0746

# Complementary

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



34.0048, 19.2271, 72.4400



34.9641, 57.4669, 15.0444

# 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.



6.2236, 19.2271, 12.5690



34.0048, 19.2271, 72.4400



13.4712, 19.2271, 0.2397

# Square

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



34.0048, 19.2271, 72.4400



31.9759, 19.2271, 1.6078



8.3439, 19.2271, 2.4252



9.1820, 19.2271, 81.7828



# Rectangle

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



34.0048, 19.2271, 72.4400



40.6026, 19.2271, 14.7097



8.3439, 19.2271, 2.4252



6.1383, 19.2271, 28.7076

# Sweetspot

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



34.0056, 19.2279, 72.4404



74.6400, 67.5550, 103.7132



22.2494, 19.2216, 73.0589



15.4806, 13.6929, 22.0770



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.



34.0056, 19.2279, 72.4404



40.8991, 20.4437, 96.3981



42.5791, 24.0874, 52.9749



13.8756, 13.7194, 17.3045



16.0565, 7.3727, 41.6252



1.2018, 0.5568, 2.8894



# Inverse Universe

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



36.0835, 21.4891, 18.7695



44.9389, 24.2965, 16.6083



31.5211, 55.5495, 21.3221



13.8749, 13.7676, 15.1112



18.5256, 9.4772, 4.1677



1.3228, 0.6724, 0.4925



# Previews

## White Background



This preview shows how the XYZ color 34.0048, 19.2271, 72.4400 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

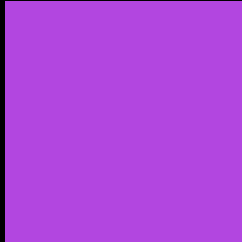
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 34.0048, 19.2271, 72.4400 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

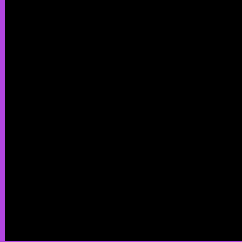
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 34.0048, 19.2271, 72.4400**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.0048, 19.2271, 72.4400.



This preview shows how white text looks on a background with the XYZ color 34.0048, 19.2271,



# 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

34.0048, 19.2271, 72.4400

### Protanopia

23.4602, 19.5621, 92.1619

### Deuteranopia

20.1350, 19.4924, 66.3195



## Tritanopia

22.8892, 19.1000, 18.3999

# Trichromacy



## Original Color

34.0048, 19.2271, 72.4400



## Protanomaly

22.4653, 16.5294, 84.4445



## Deuteranomaly

21.9196, 17.1867, 68.4917



## Tritanomaly

25.6834, 18.3773, 32.7654

# Monochromacy



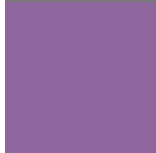
## Original Color

34.0048, 19.2271, 72.4400



## Achromatopsia

17.8524, 18.7821, 20.4537



## Achromatomaly

21.9074, 17.6341, 34.5968

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.0048, 19.2271, 72.4400 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(178, 70, 224)` looks like.

```
.text, #text, p{  
    color:rgb(178, 70, 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(178, 70, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 70, 224) }
```

## Border

The CSS property to change the border of an element to XYZ 34.0048, 19.2271, 72.4400 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(178, 70, 224) }
```



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

```
.border{ border-color:rgb(178, 70, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 70, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 70, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 70, 224);  
box-shadow:4px 4px 4px 4px rgb(178, 70,  
224) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.0048, 19.2271, 72.4400 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 70, 224) }
```

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

```
.background{ background-color: rgb(178, 70,  
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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