

# Converting Colors

XYZ(31.0563, 14.4092, 73.7813)

Have a look what the booklet for  
XYZ(31.0563, 14.4092, 73.7813)  
contains.

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# Color

**XYZ(31.0987, 14.4303,  
73.8193)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AD00E3
RGB	173, 0, 227
RGB Percent	68%, 0%, 89%
CMY	0.3216, 1.0000, 0.1098
CMYK	0.24, 1.00, 0.00, 0.11
HSL	286°, 100%, 45%
HSV	286°, 100%, 89%
XYZ	31.0987, 14.4303, 73.8193
YIQ	77.6050, 30.2410, 107.2730

# Conversions

## Conversions Part 2

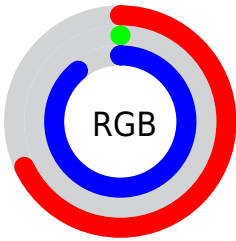
<b>Format</b>	<b>Color</b>
<b>RYB</b>	173, 0, 227
Decimal	11337955
CIELab	44.84, 82.28, -70.79
CIElCh	45, 108.545, 319.291
Yxy	14.4303, 0.2606, 0.1209
Android (android.graphics.Color)	4289528035 (0xFFAD00E3)
YUV	77.6050, 73.6517, 83.6614
Hunter-Lab	37.9872, 79.6535, -88.6252

# Details

The XYZ color **31.0987, 14.4303, 73.8193** 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 **28.9910, 55.7229, 9.2279**, and the grayscale version is **7.0312, 7.3973, 8.0557**.

A 20% lighter version of the original color is **55.4714, 31.6919, 97.8012**, and **14.0658, 6.4130, 38.5267** is the 20% darker color. If you saturate the color by 10%, you get **31.0988, 14.4303, 73.8196**, and if you desaturate by 10%, it is **32.6185, 15.6601, 73.9768**.

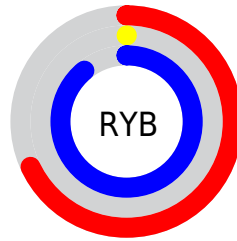
# Distribution



Red (68%)

Green (0%)

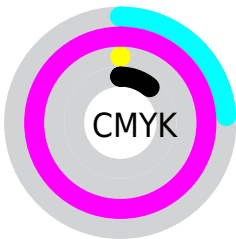
Blue (89%)



Red (68%)

Yellow (0%)

Blue (89%)

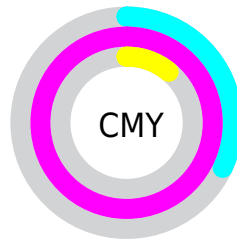


Cyan (24%)

Magenta (100%)

Yellow (0%)

Black (11%)



Cyan (32%)

Magenta (100%)


Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.0987, 14.4303, 73.8193 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 31.0987, 14.4303, 73.8193 by changing the saturation by 10% instead.





 31.0987, 14.4303,  
73.8193

 31.0987, 14.4303,  
73.8193


298.8115,  
219.8916, 492.9962


 20.8262, 8.4205,  
54.1503


 60.7702, 33.8506,  
126.3713

 13.1088, 4.3652,  
38.3278


 80.9000, 48.0300,  
160.0913

 7.5810, 1.8799,  
25.9334


 105.0462, 65.7013,  
199.3321

 3.8776, 0.5362,  
16.5485

 133.5742, 87.2490,  
244.5122

 1.6331, 0.0000,  
9.7546

 166.8494,  
113.0575, 296.0501

 0.4138, 0.0000,  
5.1331

 205.2371,

 0.0000, 0.0000,

143.5111, 354.3644

2.2654

249.1027,  
178.9944, 419.8736

■ 0.0000, 0.0000,  
0.7118

■ 0.0000, 0.0000,  
0.0000

■ 31.0987, 14.4303,  
73.8193

■ 31.0987, 14.4303,  
73.8193

■ 31.0988, 14.4303,  
73.8196

■ 32.6185, 15.6601,  
73.9768

■ 34.5392, 17.6203,  
74.2540

■ 36.9756, 20.5385,  
74.6888

■ 39.9933, 24.5452,  
75.3032

■ 43.6476, 29.7504,  
76.1153

■ 47.9872, 36.2504,  
77.1412

■ 53.0555, 44.1315,  
78.3952

■ 58.8925, 53.4727,  
79.8906

■ 65.5348, 64.3468,  
81.6395

# Harmonies

## Analogous

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



20.1461, 14.4303, 121.3403



31.0987, 14.4303, 73.8193



38.1767, 14.4303, 26.6292

# Triad

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



31.0987, 14.4303, 73.8193



17.1297, 14.4303, 0.0000



3.1033, 14.4303, 37.9608

# Complementary

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



31.0987, 14.4303, 73.8193



28.9910, 55.7229, 9.2279

# 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.



2.8647, 14.4303, 8.2801



31.0987, 14.4303, 73.8193



8.8236, 14.4303, 0.0000

# Square

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



31.0987, 14.4303, 73.8193



28.0910, 14.4303, 0.0000



4.4328, 14.4303, 0.4560



5.3368, 14.4303, 89.2639



# Rectangle

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



31.0987, 14.4303, 73.8193



38.3217, 14.4303, 9.0799



4.4328, 14.4303, 0.4560



2.8390, 14.4303, 24.9753

# Sweetspot

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



31.0994, 14.4308, 73.8196



68.9289, 57.2305, 102.0214



15.3165, 8.4485, 73.4968



14.1306, 11.2728, 21.6810



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.



31.0994, 14.4308, 73.8196



40.3852, 18.7342, 96.0953



38.9585, 19.2431, 39.8168



14.6425, 14.4334, 18.1585



18.2456, 8.4718, 43.0568



1.4292, 0.6678, 3.1855



# Inverse Universe

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



32.3449, 16.5976, 4.9900



42.0732, 21.5933, 6.3176



28.2018, 55.2315, 13.0137



14.5168, 14.4239, 15.6559



18.9013, 9.6947, 3.1092



1.4324, 0.7307, 0.4176



# Previews

## White Background



This preview shows how the XYZ color 31.0987, 14.4303, 73.8193 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

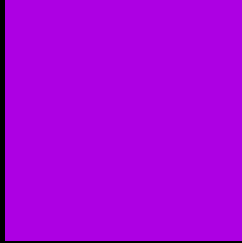
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.0987, 14.4303, 73.8193 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

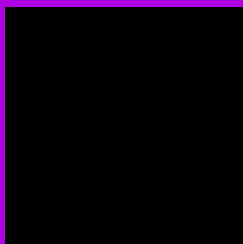
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 31.0987, 14.4303, 73.8193**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.0987, 14.4303, 73.8193.



This preview shows how white text looks on a background with the XYZ color 31.0987, 14.4303,



# 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

31.0987, 14.4303, 73.8193

### Protanopia

17.7365, 15.0151, 68.9812

### Deuteranopia

14.9799, 14.9134, 51.3793



## Tritanopia

18.7748, 14.7433, 12.6827

# Trichromacy



## Original Color

31.0987, 14.4303, 73.8193



## Protanomaly

17.1829, 10.2271, 70.1756



## Deuteranomaly

15.1391, 9.7967, 58.2198



## Tritanomaly

20.9183, 12.3830, 27.2742

# Monochromacy



## Original Color

31.0987, 14.4303, 73.8193



## Achromatopsia

7.2414, 7.6185, 8.2966



## Achromatomaly

12.1155, 7.4579, 22.6307

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.0987, 14.4303, 73.8193 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(173, 0, 227)` looks like.

```
.text, #text, p{  
    color:rgb(173, 0, 227)  
}
```

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(173, 0, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(173, 0, 227) }
```

## Border

The CSS property to change the border of an element to XYZ 31.0987, 14.4303, 73.8193 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(173, 0, 227) }
```



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

```
.border{ border-color:rgb(173, 0, 227) }
```

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

Here you see how a box with a 4 pixel rgb(173, 0, 227) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(173, 0, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(173, 0, 227);  
box-shadow:4px 4px 4px 4px rgb(173, 0,  
227) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.0987, 14.4303, 73.8193 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(173, 0, 227) }
```

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

```
.background{ background-color: rgb(173, 0,  
227) }
```

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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