

# Converting Colors

XYZ(27.2402, 12.9533, 50.4991)

Have a look what the booklet for  
XYZ(27.2402, 12.9533, 50.4991)  
contains.

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# Color

**XYZ(27.3085, 12.9917,  
50.3585)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B000BF
RGB	176, 0, 191
RGB Percent	69%, 0%, 75%
CMY	0.3098, 0.9999, 0.2510
CMYK	0.08, 1.00, 0.00, 0.25
HSL	295°, 100%, 37%
HSV	295°, 100%, 75%
XYZ	27.3085, 12.9917, 50.3585
YIQ	74.3980, 43.5850, 96.7130

# Conversions

## Conversions Part 2

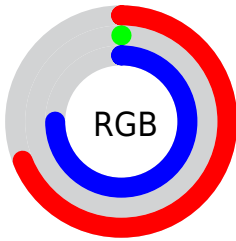
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	176, 0, 191
Decimal	11534527
CIE <sub>Lab</sub>	42.75, 76.70, -53.37
CIE <sub>LCh</sub>	43, 93.439, 325.165
Yxy	12.9917, 0.3012, 0.1433
Android (android.graphics.Color)	4289724607 (0xFFB000BF)
YUV	74.3980, 57.4848, 89.1050
Hunter-Lab	36.0440, 72.1623, -57.6056

# Details

The XYZ color **27.3085, 12.9917, 50.3585** is a dark color, and the websafe version is hex **CC00CC**. A complement of this color would be **18.8282, 37.3634, 6.2200**, and the grayscale version is **6.4770, 6.8143, 7.4208**.

A 20% lighter version of the original color is **54.9435, 31.4266, 91.9770**, and **11.9866, 5.6577, 24.1272** is the 20% darker color. If you saturate the color by 10%, you get **27.3086, 12.9918, 50.3587**, and if you desaturate by 10%, it is **27.8848, 13.6374, 50.4530**.

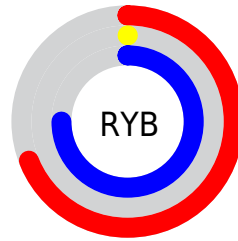
# Distribution



Red (69%)

Green (0%)

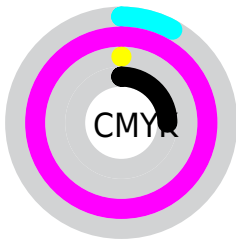
Blue (75%)



Red (69%)

Yellow (0%)

Blue (75%)

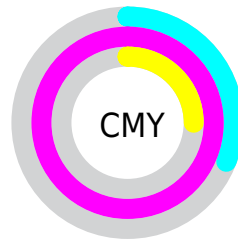


Cyan (8%)

Magenta (100%)

Yellow (0%)

Black (25%)



Cyan (31%)

Magenta (100%)


Yellow (25%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.3085, 12.9917, 50.3585 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 27.3085, 12.9917, 50.3585 by changing the saturation by 10% instead.





 27.3085, 12.9917,  
50.3585

 27.3085, 12.9917,  
50.3585

281.2881,  
210.8645, 404.8414


 17.9428, 7.4228,  
35.3252


 54.7949, 31.2889,  
92.1076

 11.0084, 3.7279,  
23.6279


 73.6464, 44.7860,  
119.6604


 6.1398, 1.5226,  
14.8482


 96.3905, 61.6946,  
152.2235

 2.9718, 0.3045,  
8.5675

 123.3926, 82.3991,  
190.2153

 1.1388, 0.0000,  
4.3672

 155.0181,  
107.2840, 234.0545

 0.0572, 0.0000,  
1.8289

 191.6322,

 0.0000, 0.0000,

136.7336, 284.1596

0.4469

233.6005,  
171.1323, 340.9490

■ 0.0000, 0.0000,  
0.0000

■ 27.3085, 12.9917,  
50.3585

■ 27.3085, 12.9917,  
50.3585

■ 27.3086, 12.9918,  
50.3587

■ 27.8848, 13.6374,  
50.4530

■ 28.6949, 14.7456,  
50.6242

■ 29.8222, 16.4829,  
50.9001

■ 31.3090, 18.9334,  
51.2947

■ 33.1909, 22.1683,  
51.8199

■ 35.4991, 26.2503,  
52.4862

■ 38.2618, 31.2356,  
53.3028

■ 41.5047, 37.1757,  
54.2785

■ 45.2516, 44.1181,  
55.4210

# Harmonies

## Analogous

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



19.1202, 12.9917, 87.3902



27.3085, 12.9917, 50.3585



31.5898, 12.9917, 17.7084

# Triad

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



27.3085, 12.9917, 50.3585



13.5365, 12.9917, 0.0000



3.6484, 12.9917, 38.1751

# Complementary

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



27.3085, 12.9917, 50.3585



18.8282, 37.3634, 6.2200

# 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.



3.1220, 12.9917, 11.0962



27.3085, 12.9917, 50.3585



7.4001, 12.9917, 0.0000

# Square

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



27.3085, 12.9917, 50.3585



21.9173, 12.9917, 0.0000



4.1837, 12.9917, 1.4977



6.0704, 12.9917, 76.7455



# Rectangle

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



27.3085, 12.9917, 50.3585



30.7971, 12.9917, 6.1775



4.1837, 12.9917, 1.4977



3.2961, 12.9917, 27.0565

# Sweetspot

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



27.3091, 12.9923, 50.3588



68.2682, 55.4727, 95.3883



9.5885, 4.1303, 49.5822



14.5086, 11.3072, 20.8031



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



27.3091, 12.9923, 50.3588



48.8137, 23.2187, 90.1880



24.3787, 12.2338, 16.2380



9.8540, 9.6571, 12.0169



17.9781, 8.5541, 33.0965



0.7264, 0.3465, 1.2975



# Inverse Universe

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



21.5724, 11.1113, 1.4602



38.6025, 19.8863, 2.4392



20.0640, 37.8350, 13.7562



9.5598, 9.5482, 10.0707



14.1892, 7.3068, 1.0238



0.5663, 0.2904, 0.0952



# Previews

## White Background



This preview shows how the XYZ color 27.3085, 12.9917, 50.3585 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



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

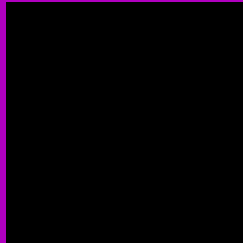
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 27.3085, 12.9917, 50.3585**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.3085, 12.9917, 50.3585.



This preview shows how white text looks on a background with the XYZ color 27.3085, 12.9917,



# 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

27.3085, 12.9917, 50.3585

### Protanopia

16.1900, 13.7675, 62.7769

### Deuteranopia

14.1030, 13.6673, 45.0748



## Tritanopia

19.0683, 13.3979, 9.1705

# Trichromacy



## Original Color

27.3085, 12.9917, 50.3585



## Protanomaly

14.7272, 9.0686, 57.4741



## Deuteranomaly

14.8164, 9.5308, 46.4061



## Tritanomaly

20.5956, 11.7948, 18.9604

# Monochromacy



## Original Color

27.3085, 12.9917, 50.3585



## Achromatopsia

6.5089, 6.8478, 7.4573



## Achromatomaly

10.7829, 6.6969, 17.5539

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.3085, 12.9917, 50.3585 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(176, 0, 191)` looks like.

```
.text, #text, p{  
    color:rgb(176, 0, 191)  
}
```

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(176, 0, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 0, 191) }
```

## Border

The CSS property to change the border of an element to XYZ 27.3085, 12.9917, 50.3585 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(176, 0, 191) }
```



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

```
.border{ border-color:rgb(176, 0, 191) }
```

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

Here you see how a box with a 4 pixel rgb(176, 0, 191) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 0, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 0, 191);  
box-shadow:4px 4px 4px 4px rgb(176, 0,  
191) }
```

# Background

The CSS property to change the background color of an element to XYZ 27.3085, 12.9917, 50.3585 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 0, 191) }
```

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

```
.background{ background-color: rgb(176, 0,  
191) }
```

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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