

# Converting Colors

XYZ(49.9167, 27.5552, 73.4936)

Have a look what the booklet for  
XYZ(49.9167, 27.5552, 73.4936)  
contains.

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# Color

**XYZ(49.9687, 27.5505,  
73.2051)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EB47E0
RGB	235, 71, 224
RGB Percent	92%, 28%, 88%
CMY	0.0784, 0.7215, 0.1216
CMYK	0.00, 0.70, 0.05, 0.08
HSL	304°, 80%, 60%
HSV	304°, 70%, 92%
XYZ	49.9687, 27.5505, 73.2051
YIQ	137.4780, 48.6310, 82.3510

# Conversions

## Conversions Part 2

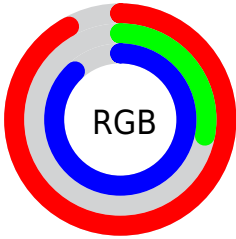
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	235, 71, 224
Decimal	15419360
CIE Lab	59.48, 78.20, -45.07
CIE LCh	59, 90.255, 330.042
Yxy	27.5505, 0.3315, 0.1828
Android (android.graphics.Color)	4293609440 (0xFFEB47E0)
YUV	137.4780, 42.6553, 85.5268
Hunter-Lab	52.4886, 78.0756, -45.9490

# Details

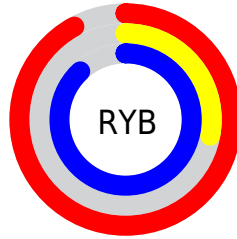
The XYZ color **49.9687, 27.5505, 73.2051** is a light color, and the websafe version is hex **CC33CC**. The color can be described as light muted magenta. A complement of this color would be **33.8312, 61.3666, 18.0464**, and the grayscale version is **23.7910, 25.0300, 27.2576**.

A 20% lighter version of the original color is **67.6775, 45.2551, 99.7758**, and **24.7471, 11.9411, 38.0463** is the 20% darker color. If you saturate the color by 10%, you get **48.5400, 25.0330, 71.6791**, and if you desaturate by 10%, it is **51.9789, 31.2264, 74.9351**.

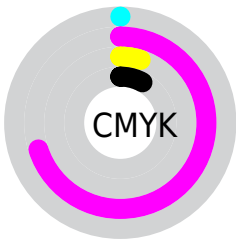
# Distribution



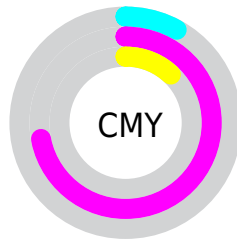
- Red (92%)
- Green (28%)
- Blue (88%)



- Red (92%)
- Yellow (28%)
- Blue (88%)



- Cyan (0%)
- Magenta (70%)
- Yellow (5%)
- Black (8%)




- Cyan (8%)
- Magenta (72%)
- Yellow (12%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.9687, 27.5505, 73.2051 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 49.9687, 27.5505, 73.2051 by changing the saturation by 10% instead.





 49.9687, 27.5505,  
73.2051

 49.9687, 27.5505,  
73.2051


376.9975,  
290.3128, 490.8152


 35.6062, 17.9871,  
53.6508


 89.3206, 55.7660,  
125.4919

 24.2989, 10.9407,  
37.9313


 115.0407, 75.1869,  
159.0616

 15.6814, 6.0270,  
25.6280


 145.2775, 98.6623,  
198.1402

 9.3884, 2.8615,  
16.3223

 180.3962,  
126.5768, 243.1462

 5.0545, 1.0599,  
9.5957

 220.7621,  
159.3147, 294.4981

 2.3144, 0.0000,  
5.0296

266.7408,

 0.8020, 0.0000,

197.2604, 352.6146

2.2056

318.6975,  
240.7983, 417.9141

■ 0.0000, 0.0000,  
0.6776

■ 0.0000, 0.0000,  
0.0000

■ 49.9687, 27.5505,  
73.2051

■ 49.9687, 27.5505,  
73.2051

■ 48.5400, 25.0330,  
71.6791

■ 51.9789, 31.2264,  
74.9351

■ 47.6190, 23.5283,  
70.3318


■ 54.6271, 36.1759,  
76.8875


■ 47.0888, 22.8022,  
69.1246


■ 57.9666, 42.5047,  
79.0800


■ 47.0787, 22.7893,  
69.0991


■ 62.0441, 50.3063,  
81.5284

 66.9023, 59.6663,  
84.2470

 72.5808, 70.6635,  
87.2489

 79.1162, 83.3714,  
90.5464

 85.2507, 95.2741,  
93.7201

 85.4816, 95.3665,  
94.9360

# Harmonies

## Analogous

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



38.6815, 27.5505, 122.9546



49.9687, 27.5505, 73.2051



54.5835, 27.5505, 29.9523

# Triad

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



49.9687, 27.5505, 73.2051



26.1700, 27.5505, 0.8597



11.4884, 27.5505, 73.3482

# Complementary

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



49.9687, 27.5505, 73.2051



33.8312, 61.3666, 18.0464

# 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.



9.8796, 27.5505, 30.0434



49.9687, 27.5505, 73.2051



16.7208, 27.5505, 1.9146

# Square

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



49.9687, 27.5505, 73.2051



38.6458, 27.5505, 1.9074



11.4792, 27.5505, 8.3786



16.7412, 27.5505, 123.0713



# Rectangle

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



49.9687, 27.5505, 73.2051



52.4582, 27.5505, 13.2894



11.4792, 27.5505, 8.3786



10.5848, 27.5505, 56.8738

# Sweetspot

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



49.9697, 27.5518, 73.2056



79.7087, 70.2342, 100.9597



20.7240, 12.2970, 79.8794



16.7006, 14.3379, 21.4107



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.



49.9697, 27.5518, 73.2056



57.8482, 29.1609, 85.5104



41.4030, 24.1251, 28.0940



15.6687, 15.2953, 18.8064



26.2203, 12.6908, 38.5570



2.0721, 1.0018, 3.0970



# Inverse Universe

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



49.9697, 27.5518, 73.2056



57.8482, 29.1609, 85.5104



39.0030, 63.4353, 45.2811



15.6687, 15.2953, 18.8064



26.2203, 12.6908, 38.5570

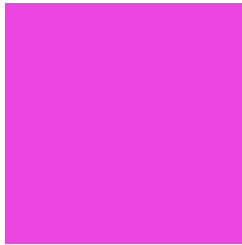


2.0721, 1.0018, 3.0970



# Previews

## White Background



This preview shows how the XYZ color 49.9687, 27.5505, 73.2051 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

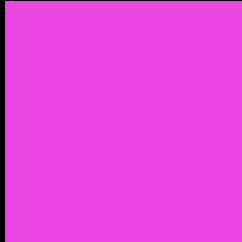
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 49.9687, 27.5505, 73.2051 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

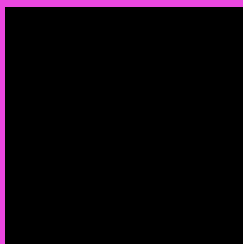
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 49.9687, 27.5505, 73.2051**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.9687, 27.5505, 73.2051.



This preview shows how white text looks on a background with the XYZ color 49.9687, 27.5505,



# 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

49.9687, 27.5505, 73.2051

### Protanopia

31.4526, 28.0509, 98.3644

### Deuteranopia

28.6428, 27.9597, 66.8379



## Tritanopia

38.7264, 27.4183, 19.1707

# Trichromacy



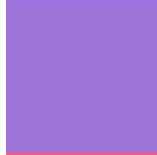
## Original Color

49.9687, 27.5505, 73.2051



## Protanomaly

33.4444, 24.4558, 88.5457



## Deuteranomaly

32.7903, 24.9004, 68.7237



## Tritanomaly

41.5140, 26.6694, 33.5315

# Monochromacy



## Original Color

49.9687, 27.5505, 73.2051



## Achromatopsia

23.7775, 25.0158, 27.2422



## Achromatomaly

30.3001, 23.5591, 40.4865

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.9687, 27.5505, 73.2051 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(235, 71, 224)` looks like.

```
.text, #text, p{  
    color:rgb(235, 71, 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(235, 71, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 71, 224) }
```

## Border

The CSS property to change the border of an element to XYZ 49.9687, 27.5505, 73.2051 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(235, 71, 224) }
```



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

```
.border{ border-color:rgb(235, 71, 224) }
```

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

Here you see how a box with a 4 pixel rgb(235, 71, 224) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 71, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 71, 224);  
box-shadow:4px 4px 4px 4px rgb(235, 71,  
224) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.9687, 27.5505, 73.2051 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 71, 224) }
```

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

```
.background{ background-color: rgb(235, 71,  
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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