

# Converting Colors

XYZ(49.9855, 28.9929, 72.6982)

Have a look what the booklet for  
XYZ(49.9855, 28.9929, 72.6982)  
contains.

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# Color

**XYZ(50.0939, 28.9920,  
72.7678)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E954DF
RGB	233, 84, 223
RGB Percent	91%, 33%, 87%
CMY	0.0863, 0.6706, 0.1255
CMYK	0.00, 0.64, 0.04, 0.09
HSL	304°, 77%, 62%
HSV	304°, 64%, 91%
XYZ	50.0939, 28.9920, 72.7678
YIQ	144.3970, 44.1850, 74.8170

# Conversions

## Conversions Part 2

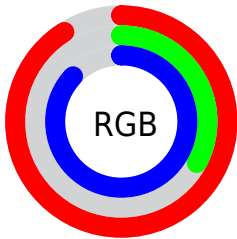
Format	Color
R <sub>Y</sub> B	233, 84, 223
Decimal	15291615
CIE Lab	60.77, 72.95, -42.49
CIE LCh	61, 84.426, 329.783
Yxy	28.9920, 0.3299, 0.1909
Android (android.graphics.Color)	4293481695 (0xFFE954DF)
YUV	144.3970, 38.7513, 77.7048
Hunter-Lab	53.8442, 71.8399, -42.4365

# Details

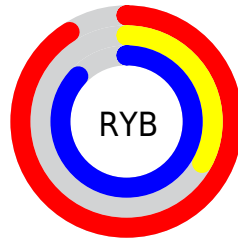
The XYZ color **50.0939, 28.9920, 72.7678** is a light color, and the websafe version is hex **FF66FF**. The color can be described as light muted magenta. A complement of this color would be **34.8168, 60.9721, 20.5253**, and the grayscale version is **26.5067, 27.8871, 30.3691**.

A 20% lighter version of the original color is **69.1125, 48.1249, 100.2542**, and **24.4306, 11.7887, 37.5470** is the 20% darker color. If you saturate the color by 10%, you get **48.3673, 25.8739, 71.1569**, and if you desaturate by 10%, it is **52.4258, 33.3159, 74.5905**.

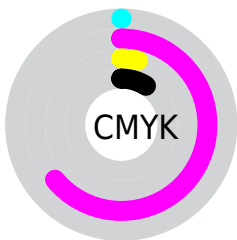
# Distribution



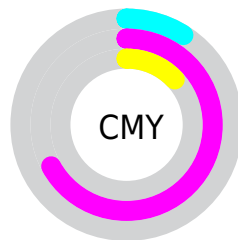
- Red (91%)
- Green (33%)
- Blue (87%)



- Red (91%)
- Yellow (33%)
- Blue (87%)



- Cyan (0%)
- Magenta (64%)
- Yellow (4%)
- Black (9%)




- Cyan (9%)
- Magenta (67%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.0939, 28.9920, 72.7678 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 50.0939, 28.9920, 72.7678 by changing the saturation by 10% instead.





 50.0939, 28.9920,  
72.7678


 50.0939, 28.9920,  
72.7678

377.4790,  
297.1772, 489.2588

 35.7061, 19.0748,  
53.2955


 89.5050, 58.0644,  
124.8654

 24.3764, 11.7243,  
37.6493


 115.2590, 77.9883,  
158.3277

 15.7393, 6.5562,  
25.4109


 145.5324,  
102.0166, 197.2904

 9.4295, 3.1862,  
16.1617

 180.6907,  
130.5336, 242.1720

 5.0817, 1.2297,  
9.4830

221.0991,  
163.9238, 293.3912

 2.3306, 0.0857,  
4.9565

267.1231,

 0.8102, 0.0000,

202.5716, 351.3663

2.1635

319.1279,  
246.8612, 416.5160

■ 0.0000, 0.0000,  
0.6532

■ 0.0000, 0.0000,  
0.0000

■ 50.0939, 28.9920,  
72.7678

■ 50.0939, 28.9920,  
72.7678

■ 48.3673, 25.8739,  
71.1569

■ 52.4258, 33.3159,  
74.5905

■ 47.1804, 23.8330,  
69.7353


■ 55.4135, 38.9492,  
76.6413


■ 46.4585, 22.7190,  
68.4782


■ 59.1060, 45.9889,  
78.9366


■ 46.1762, 22.3525,  
67.7733


■ 63.5466, 54.5217,  
81.4910

 68.7752, 64.6274,  
84.3178

 74.8289, 76.3800,  
87.4294

 81.7424, 89.8490,  
90.8373

 84.4343, 94.8717,  
92.8477

 84.6619, 94.9628,  
94.0466

# Harmonies

## Analogous

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



39.4156, 28.9920, 118.3647



50.0939, 28.9920, 72.7678



54.4845, 28.9920, 31.7967

# Triad

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



50.0939, 28.9920, 72.7678



27.6360, 28.9920, 1.5000



13.0053, 28.9920, 72.0786

# Complementary

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



50.0939, 28.9920, 72.7678



34.8168, 60.9721, 20.5253

# 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.



11.3887, 28.9920, 31.3392



50.0939, 28.9920, 72.7678



18.3515, 28.9920, 2.8088

# Square

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



50.0939, 28.9920, 72.7678



39.5915, 28.9920, 2.8547



13.0538, 28.9920, 9.8824



18.2462, 28.9920, 117.8135



# Rectangle

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



50.0939, 28.9920, 72.7678



52.5473, 28.9920, 15.2195



13.0538, 28.9920, 9.8824



12.0933, 28.9920, 56.7415

# Sweetspot

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



50.0949, 28.9933, 72.7684



80.9747, 72.6802, 101.6470



22.4890, 14.6015, 78.7249



16.9469, 14.8130, 21.5466



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.



50.0949, 28.9933, 72.7684



58.7861, 30.7521, 86.7005



42.1662, 25.8219, 31.0163



15.6686, 15.2953, 18.8062



26.2196, 12.6905, 38.5533



2.0720, 1.0018, 3.0967



# Inverse Universe

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



50.0949, 28.9933, 72.7684



58.7861, 30.7521, 86.7005



39.9048, 63.0072, 47.3181



15.6686, 15.2953, 18.8062



26.2196, 12.6905, 38.5533

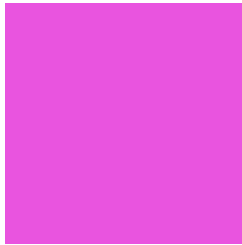


2.0720, 1.0018, 3.0967



# Previews

## White Background



This preview shows how the XYZ color 50.0939, 28.9920, 72.7678 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

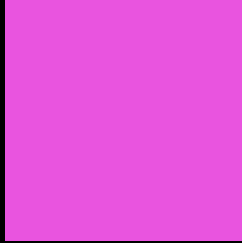
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.0939, 28.9920, 72.7678 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

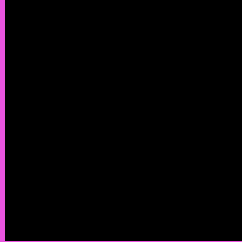
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 50.0939, 28.9920, 72.7678**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.0939, 28.9920, 72.7678.



This preview shows how white text looks on a background with the XYZ color 50.0939, 28.9920,



# 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

50.0939, 28.9920, 72.7678

### Protanopia

32.6963, 29.3517, 98.5499

### Deuteranopia

30.0349, 29.3549, 67.0339



## Tritanopia

39.6544, 28.9694, 21.9140

# Trichromacy



## Original Color

50.0939, 28.9920, 72.7678



## Protanomaly

34.9913, 26.5011, 88.0650



## Deuteranomaly

34.3053, 26.7527, 69.0013



## Tritanomaly

42.4723, 28.3724, 36.0388

# Monochromacy



## Original Color

50.0939, 28.9920, 72.7678



## Achromatopsia

26.5089, 27.8894, 30.3716



## Achromatomaly

32.4069, 26.1663, 42.8777

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.0939, 28.9920, 72.7678 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(233, 84, 223)` looks like.

```
.text, #text, p{  
    color:rgb(233, 84, 223)  
}
```

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(233, 84, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 84, 223) }
```

## Border

The CSS property to change the border of an element to XYZ 50.0939, 28.9920, 72.7678 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(233, 84, 223) }
```



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

```
.border{ border-color:rgb(233, 84, 223) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 84, 223)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 84, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 84, 223);  
box-shadow:4px 4px 4px 4px rgb(233, 84,  
223) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.0939, 28.9920, 72.7678 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 84, 223) }
```

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

```
.background{ background-color: rgb(233, 84,  
223) }
```

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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