

# Converting Colors

XYZ(49.8607, 28.0991, 36.8725)

Have a look what the booklet for  
XYZ(49.8607, 28.0991, 36.8725)  
contains.

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# Color

**XYZ(49.8897, 28.1249,  
36.9816)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF45A2
RGB	255, 69, 162
RGB Percent	100%, 27%, 64%
CMY	0.0000, 0.7294, 0.3647
CMYK	0.00, 0.73, 0.36, 0.00
HSL	330°, 100%, 64%
HSV	330°, 73%, 100%
XYZ	49.8897, 28.1249, 36.9816
YIQ	135.2160, 81.0030, 68.3550

# Conversions

## Conversions Part 2

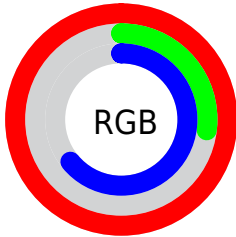
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 69, 162
Decimal	16729506
CIE <sub>Lab</sub>	60.00, 75.74, -8.51
CIE <sub>LCh</sub>	60, 76.214, 353.593
Yxy	28.1249, 0.4338, 0.2446
Android (android.graphics.Color)	4294919586 (0xFFFF45A2)
YUV	135.2160, 13.2045, 105.0506
Hunter-Lab	53.0329, 75.1129, -4.2218

# Details

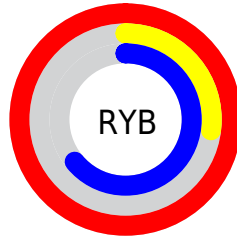
The XYZ color **49.8897, 28.1249, 36.9816** is a light color, and the websafe version is hex **FF3399**. The color can be described as light washed rose. A complement of this color would be **44.7378, 75.3947, 46.3827**, and the grayscale version is **23.0427, 24.2427, 26.4003**.

A 20% lighter version of the original color is **61.8807, 42.5024, 70.5879**, and **24.8068, 12.4632, 15.8500** is the 20% darker color. If you saturate the color by 10%, you get **47.5674, 25.2032, 30.8960**, and if you desaturate by 10%, it is **53.0019, 32.4422, 43.8980**.

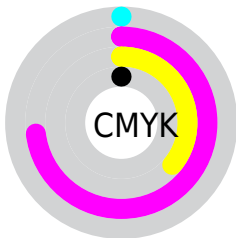
# Distribution



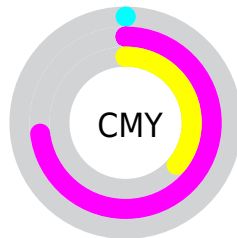
- Red (100%)
- Green (27%)
- Blue (64%)



- Red (100%)
- Yellow (27%)
- Blue (64%)



- Cyan (0%)
- Magenta (73%)
- Yellow (36%)
- Black (0%)




- Cyan (0%)
- Magenta (73%)
- Yellow (36%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.8897, 28.1249, 36.9816 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 49.8897, 28.1249, 36.9816 by changing the saturation by 10% instead.





 49.8897, 28.1249,  
36.9816


 49.8897, 28.1249,  
36.9816

376.6936,  
293.0633, 348.3971


 35.5432, 18.4198,  
24.8976


 89.2042, 56.6838,  
71.7305


 24.2501, 11.2518,  
15.7824


 114.9030, 76.3064,  
95.2324


 15.6450, 6.2365,  
9.2176


 145.1165,  
100.0036, 123.3774

 9.3625, 2.9894,  
4.7847

 180.2102,  
128.1599, 156.5840

 5.0374, 1.1262,  
2.0650

 220.5494,  
161.1596, 195.2708

 2.3042, 0.0002,  
0.5948

266.4995,

 0.7968, 0.0000,

199.3872, 239.8562

0.0000

318.4257,  
243.2269, 290.7588

■ 0.0000, 0.0000,  
0.0000

■ 49.8897, 28.1249,  
36.9816

■ 49.8897, 28.1249,  
36.9816

■ 47.5674, 25.2032,  
30.8960

■ 53.0019, 32.4422,  
43.8980

■ 45.9360, 23.4848,  
25.5908

■ 56.9815, 38.3054,  
51.6864

■ 45.1029, 22.8052,  
22.2719

■ 61.8988, 45.8498,  
60.3861

■ 67.8160, 55.1948,  
70.0326

■ 74.7895, 66.4490,  
80.6591

82.8716, 79.7120,  
92.2968

92.1107, 95.0766,  
104.9754

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



44.7348, 28.1249, 74.5448



49.8897, 28.1249, 36.9816



47.7342, 28.1249, 13.8294

# Triad

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



49.8897, 28.1249, 36.9816



19.9383, 28.1249, 3.1188



17.1170, 28.1249, 96.8988

# Complementary

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



49.8897, 28.1249, 36.9816



44.7378, 75.3947, 46.3827

# 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.



13.0202, 28.1249, 57.3736



49.8897, 28.1249, 36.9816



14.3521, 28.1249, 8.5974

# Square

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



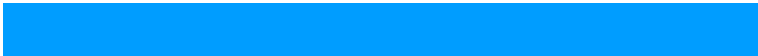
49.8897, 28.1249, 36.9816



28.8685, 28.1249, 2.3015



12.1472, 28.1249, 25.0389



24.7034, 28.1249, 120.3271



# Rectangle

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



49.8897, 28.1249, 36.9816



42.6495, 28.1249, 6.5801



12.1472, 28.1249, 25.0389



15.3680, 28.1249, 84.2184

# Sweetspot

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



49.8905, 28.1264, 36.9821



75.4984, 67.6040, 81.7053



35.0805, 19.1598, 96.4570



15.7260, 13.7643, 16.8449



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.



49.8905, 28.1264, 36.9821



46.6619, 24.1961, 28.1154



44.4434, 25.9476, 8.2982



18.3882, 18.1386, 20.6612



23.6426, 11.9463, 12.0344



2.3571, 1.1852, 1.4620



# Inverse Universe

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



49.8905, 28.1264, 36.9821



46.6619, 24.1961, 28.1154



56.2651, 80.0056, 107.0848



18.3882, 18.1386, 20.6612



23.6426, 11.9463, 12.0344



2.3571, 1.1852, 1.4620



# Previews

## White Background



This preview shows how the XYZ color 49.8897, 28.1249, 36.9816 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

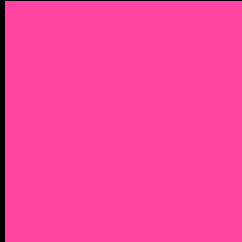
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.8897, 28.1249, 36.9816 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

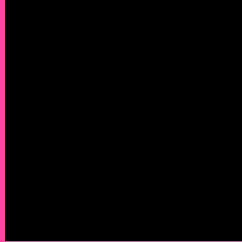
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 49.8897, 28.1249, 36.9816**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.8897, 28.1249, 36.9816.



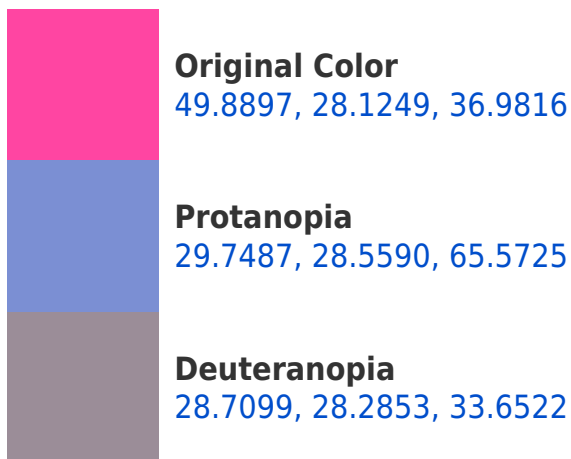
This preview shows how white text looks on a background with the XYZ color 49.8897, 28.1249,



# 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





## Tritanopia

44.8898, 28.0938, 13.4126

# Trichromacy



## Original Color

49.8897, 28.1249, 36.9816



## Protanomaly

32.6656, 24.9990, 53.5557



## Deuteranomaly

33.6173, 25.7381, 34.6486



## Tritanomaly

46.3573, 27.8883, 20.0792

# Monochromacy



## Original Color

49.8897, 28.1249, 36.9816



## Achromatopsia

23.0288, 24.2281, 26.3844



## Achromatomaly

29.3857, 22.9969, 29.6781

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.8897, 28.1249, 36.9816 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(255, 69, 162)` looks like.

```
.text, #text, p{  
    color:rgb(255, 69, 162)  
}
```

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(255, 69, 162) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 69, 162) }
```

## Border

The CSS property to change the border of an element to XYZ 49.8897, 28.1249, 36.9816 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(255, 69, 162) }
```



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

```
.border{ border-color:rgb(255, 69, 162) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 69, 162)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 69, 162); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 69, 162);  
box-shadow:4px 4px 4px 4px rgb(255, 69,  
162) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.8897, 28.1249, 36.9816 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 69, 162) }
```

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

```
.background{ background-color: rgb(255, 69,  
162) }
```

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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