

# Converting Colors

XYZ(48.8727, 29.4325, 71.2960)

Have a look what the booklet for  
XYZ(48.8727, 29.4325, 71.2960)  
contains.

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# Color

**XYZ(48.8732, 29.3687,  
71.4994)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E45CDD
RGB	228, 92, 221
RGB Percent	89%, 36%, 87%
CMY	0.1059, 0.6392, 0.1333
CMYK	0.00, 0.60, 0.03, 0.11
HSL	303°, 72%, 63%
HSV	303°, 60%, 89%
XYZ	48.8732, 29.3687, 71.4994
YIQ	147.3700, 39.6470, 68.9510

# Conversions

## Conversions Part 2

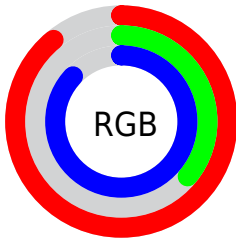
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	228, 92, 221
Decimal	14965981
CIE Lab	61.11, 68.22, -40.90
CIE LCh	61, 79.540, 329.058
Yxy	29.3687, 0.3264, 0.1961
Android (android.graphics.Color)	4293156061 (0xFFE45CDD)
YUV	147.3700, 36.2996, 70.7125
Hunter-Lab	54.1929, 66.1405, -40.2892

# Details

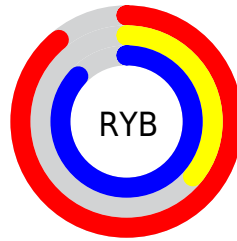
The XYZ color **48.8732, 29.3687, 71.4994** is a light color, and the websafe version is hex **FF66FF**. The color can be described as light muted magenta. A complement of this color would be **34.4105, 58.6642, 21.3158**, and the grayscale version is **27.7304, 29.1745, 31.7710**.

A 20% lighter version of the original color is **70.0374, 49.9749, 100.5625**, and **23.5231, 11.8904, 36.6526** is the 20% darker color. If you saturate the color by 10%, you get **47.0315, 25.9340, 70.1168**, and if you desaturate by 10%, it is **51.3122, 33.9948, 73.0869**.

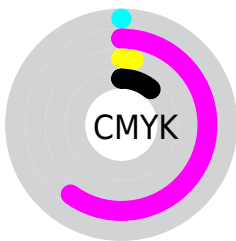
# Distribution



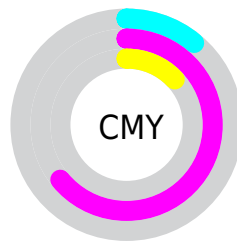
- Red (89%)
- Green (36%)
- Blue (87%)



- Red (89%)
- Yellow (36%)
- Blue (87%)



- Cyan (0%)
- Magenta (60%)
- Yellow (3%)
- Black (11%)




- Cyan (11%)
- Magenta (64%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.8732, 29.3687, 71.4994 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 48.8732, 29.3687, 71.4994 by changing the saturation by 10% instead.





 48.8732, 29.3687,  
71.4994


 48.8732, 29.3687,  
71.4994

372.7682,  
298.9506, 484.7279


 34.7330, 19.3599,  
52.2655


 87.7050, 58.6624,  
123.0456


 23.6228, 11.9306,  
36.8331


 113.1272, 78.7160,  
156.1951

 15.1773, 6.6965,  
24.7835


 143.0410,  
102.8868, 194.8201

 9.0310, 3.2730,  
15.6983

 177.8114,  
131.5590, 239.3392

 4.8187, 1.2759,  
9.1589

217.8040,  
165.1171, 290.1710

 2.1749, 0.1224,  
4.7467

263.3841,

 0.7295, 0.0000,

203.9455, 347.7341

2.0433

314.9170,  
248.4285, 412.4469

■ 0.0000, 0.0000,  
0.5817

■ 0.0000, 0.0000,  
0.0000

■ 48.8732, 29.3687,  
71.4994

■ 48.8732, 29.3687,  
71.4994

■ 47.0315, 25.9340,  
70.1168

■ 51.3122, 33.9948,  
73.0869

■ 45.7288, 23.5763,  
68.9191


■ 54.3937, 39.9049,  
74.8938


■ 44.9008, 22.1661,  
67.8849


■ 58.1622, 47.1872,  
76.9351


■ 44.4383, 21.4854,  
66.9780


■ 62.6572, 55.9208,  
79.2240


 44.4242, 21.4658,  
66.9468

 67.9154, 66.1789,  
81.7727

 73.9708, 78.0299,  
84.5926

 80.8556, 91.5378,  
87.6944

 82.0932, 93.7493,  
88.9193

 82.2590, 93.8157,  
89.7924

# Harmonies

## Analogous

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



38.8234, 29.3687, 112.9650



48.8732, 29.3687, 71.4994



53.1304, 29.3687, 32.9305

# Triad

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



48.8732, 29.3687, 71.4994



28.2449, 29.3687, 2.0739



13.8046, 29.3687, 68.7409

# Complementary

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



48.8732, 29.3687, 71.4994



34.4105, 58.6642, 21.3158

# 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.



12.2879, 29.3687, 31.0431



48.8732, 29.3687, 71.4994



19.2677, 29.3687, 3.4706

# Square

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



48.8732, 29.3687, 71.4994



39.5389, 29.3687, 3.6897



14.0117, 29.3687, 10.6134



18.8253, 29.3687, 110.7902



# Rectangle

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



48.8732, 29.3687, 71.4994



51.4652, 29.3687, 16.6589



14.0117, 29.3687, 10.6134



12.9330, 29.3687, 54.6190

# Sweetspot

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



48.8743, 29.3701, 71.5000



81.7369, 73.9788, 102.5970



22.9559, 15.8986, 75.2587



17.1012, 15.0675, 21.7646



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.



48.8743, 29.3701, 71.5000



60.0841, 32.4436, 89.9213



41.5897, 26.4562, 33.1400



14.9614, 14.6017, 17.9970



25.6657, 12.4005, 38.7302



1.9065, 0.9203, 2.9142



# Inverse Universe

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



48.8743, 29.3701, 71.5000



60.0841, 32.4436, 89.9213



39.1149, 60.5460, 46.0890



14.9614, 14.6017, 17.9970



25.6657, 12.4005, 38.7302



1.9065, 0.9203, 2.9142



# Previews

## White Background



This preview shows how the XYZ color 48.8732, 29.3687, 71.4994 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

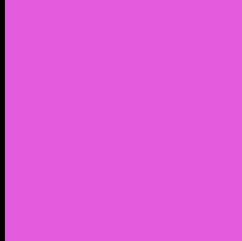
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.8732, 29.3687, 71.4994 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

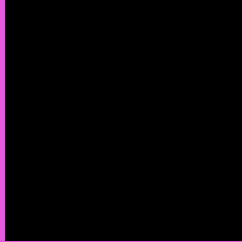
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 48.8732, 29.3687, 71.4994**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.8732, 29.3687, 71.4994.



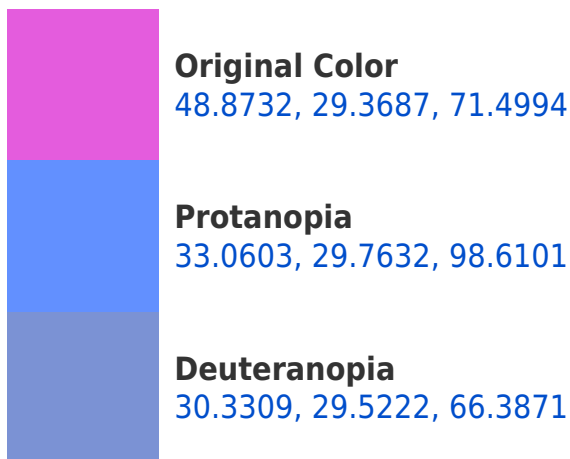
This preview shows how white text looks on a background with the XYZ color 48.8732, 29.3687,

71.4994.

# 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

38.8596, 29.2149, 23.3296

# Trichromacy



## Original Color

48.8732, 29.3687, 71.4994



## Protanomaly

35.1883, 27.1580, 88.1814



## Deuteranomaly

34.4245, 27.4051, 67.7653



## Tritanomaly

41.7205, 28.8826, 37.0942

# Monochromacy



## Original Color

48.8732, 29.3687, 71.4994



## Achromatopsia

27.7328, 29.1771, 31.7738



## Achromatomaly

33.1338, 27.4648, 43.5993

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.8732, 29.3687, 71.4994 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(228, 92, 221)` looks like.

```
.text, #text, p{  
    color:rgb(228, 92, 221)  
}
```

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(228, 92, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 92, 221) }
```

## Border

The CSS property to change the border of an element to XYZ 48.8732, 29.3687, 71.4994 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(228, 92, 221) }
```



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

```
.border{ border-color:rgb(228, 92, 221) }
```

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

Here you see how a box with a 4 pixel rgb(228, 92, 221) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 92, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 92, 221);  
box-shadow:4px 4px 4px 4px rgb(228, 92,  
221) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.8732, 29.3687, 71.4994 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 92, 221) }
```

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

```
.background{ background-color: rgb(228, 92,  
221) }
```

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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