

# Converting Colors

XYZ(46.8203, 25.4865, 71.7389)

Have a look what the booklet for  
XYZ(46.8203, 25.4865, 71.7389)  
contains.

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# Color

**XYZ(46.8116, 25.5012,  
71.5622)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E342DE
RGB	227, 66, 222
RGB Percent	89%, 26%, 87%
CMY	0.1098, 0.7411, 0.1294
CMYK	0.00, 0.71, 0.02, 0.11
HSL	302°, 74%, 57%
HSV	302°, 71%, 89%
XYZ	46.8116, 25.5012, 71.5622
YIQ	131.9230, 45.8800, 82.6480

# Conversions

## Conversions Part 2

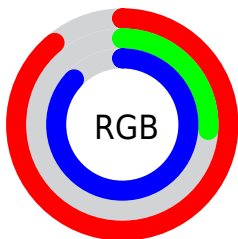
Format	Color
R <sub>YB</sub>	227, 66, 222
Decimal	14893790
CIE Lab	57.56, 77.79, -47.06
CIE LCh	58, 90.915, 328.827
Yxy	25.5012, 0.3254, 0.1772
Android (android.graphics.Color)	4293083870 (0xFFE342DE)
YUV	131.9230, 44.4080, 83.3825
Hunter-Lab	50.4987, 77.0943, -48.6713

# Details

The XYZ color **46.8116, 25.5012, 71.5622** 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 **30.8544, 56.5526, 15.2522**, and the grayscale version is **21.7394, 22.8716, 24.9071**.

A 20% lighter version of the original color is **67.0092, 43.9183, 99.5531**, and **23.0314, 11.0780, 37.0008** is the 20% darker color. If you saturate the color by 10%, you get **45.6447, 23.3175, 70.7081**, and if you desaturate by 10%, it is **48.5067, 28.7392, 72.5947**.

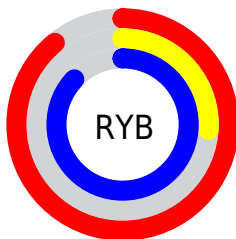
# Distribution



Red (89%)

Green (26%)

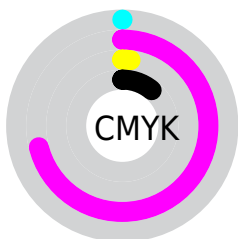
Blue (87%)



Red (89%)

Yellow (26%)

Blue (87%)

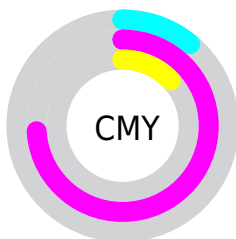


Cyan (0%)

Magenta (71%)

Yellow (2%)

Black (11%)



Cyan (11%)

Magenta (74%)

Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.8116, 25.5012, 71.5622 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 46.8116, 25.5012, 71.5622 by changing the saturation by 10% instead.



46.8116, 25.5012,  
71.5622

46.8116, 25.5012,  
71.5622

364.7235,  
280.3248, 484.9529

33.0941, 16.4509,  
52.3165

84.6528, 52.4692,  
123.1358

22.3581, 9.8438,  
36.8734

109.5071, 71.1556,  
156.3008

14.2383, 5.2955,  
24.8145

138.8045, 93.8228,  
194.9426

8.3694, 2.4217,  
15.7211

172.9102,  
120.8552, 239.4797

4.3860, 0.8370,  
9.1748

212.1896,  
152.6372, 290.3308

1.9228, 0.0000,  
4.7570

257.0080,

0.5900, 0.0000,

189.5532, 347.9143

2.0492

307.7309,  
231.9876, 412.6488

■ 0.0000, 0.0000,  
0.5853

■ 0.0000, 0.0000,  
0.0000

■ 46.8116, 25.5012,  
71.5622

■ 46.8116, 25.5012,  
71.5622

■ 45.6447, 23.3175,  
70.7081

■ 48.5067, 28.7392,  
72.5947


■ 44.9366, 22.0518,  
70.0086


■ 50.7828, 33.1391,  
73.8227


■ 44.5907, 21.4958,  
69.4743


■ 53.6893, 38.7993,  
75.2627


■ 57.2698, 45.8066,  
76.9294

 61.5637, 54.2404,  
78.8358

 66.6077, 64.1737,  
80.9942

 72.4359, 75.6746,  
83.4160

 79.0801, 88.8071,  
86.1118

 81.4909, 93.4719,  
87.3984

# Harmonies

## Analogous

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



35.7449, 25.5012, 119.8087



46.8116, 25.5012, 71.5622



51.6302, 25.5012, 29.0072

# Triad

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



46.8116, 25.5012, 71.5622



24.6676, 25.5012, 0.5835



10.1764, 25.5012, 67.6548

# Complementary

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



46.8116, 25.5012, 71.5622



30.8544, 56.5526, 15.2522

# 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.



8.7976, 25.5012, 26.5617



46.8116, 25.5012, 71.5622



15.5110, 25.5012, 1.4293

# Square

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



46.8116, 25.5012, 71.5622



36.7116, 25.5012, 1.6053



10.4176, 25.5012, 6.9082



14.9683, 25.5012, 116.5973



# Rectangle

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



46.8116, 25.5012, 71.5622



49.8125, 25.5012, 12.6108



10.4176, 25.5012, 6.9082



9.3752, 25.5012, 51.8372

# Sweetspot

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



46.8126, 25.5024, 71.5627



80.0150, 70.3567, 102.5728



18.2463, 10.6973, 73.7773



16.7747, 14.3675, 21.8007



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.



46.8126, 25.5024, 71.5627



58.9259, 29.4562, 91.6041



38.6481, 22.2366, 28.5691



14.9748, 14.6071, 18.0675



26.0135, 12.5396, 40.5617



1.9284, 0.9291, 3.0296



# Inverse Universe

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



46.8126, 25.5024, 71.5627



58.9259, 29.4562, 91.6041



35.1566, 58.2735, 37.9074



14.9748, 14.6071, 18.0675



26.0135, 12.5396, 40.5617

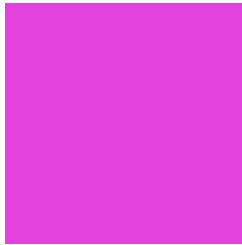


1.9284, 0.9291, 3.0296



# Previews

## White Background



This preview shows how the XYZ color 46.8116, 25.5012, 71.5622 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

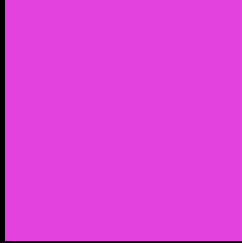
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.8116, 25.5012, 71.5622 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

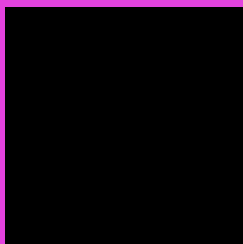
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 46.8116, 25.5012, 71.5622**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.8116, 25.5012, 71.5622.



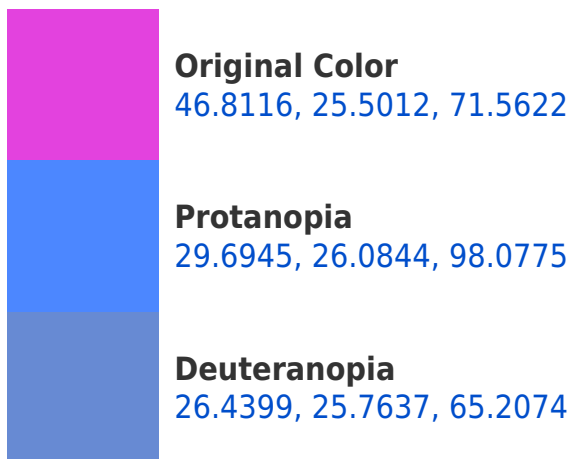
This preview shows how white text looks on a background with the XYZ color 46.8116, 25.5012,



# 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

35.8439, 25.4954, 18.0708

# Trichromacy



## Original Color

46.8116, 25.5012, 71.5622



## Protanomaly

31.1137, 22.4482, 87.4871



## Deuteranomaly

30.2727, 22.7905, 67.0934



## Tritanomaly

38.4555, 24.6068, 32.0009

# Monochromacy



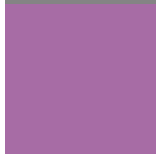
## Original Color

46.8116, 25.5012, 71.5622



## Achromatopsia

21.9318, 23.0740, 25.1276



## Achromatomaly

28.0904, 21.6572, 38.2970

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.8116, 25.5012, 71.5622 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(227, 66, 222)` looks like.

```
.text, #text, p{  
    color:rgb(227, 66, 222)  
}
```

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(227, 66, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 66, 222) }
```

## Border

The CSS property to change the border of an element to XYZ 46.8116, 25.5012, 71.5622 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(227, 66, 222) }
```



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

```
.border{ border-color:rgb(227, 66, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(227, 66, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 66, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 66, 222);  
box-shadow:4px 4px 4px 4px rgb(227, 66,  
222) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.8116, 25.5012, 71.5622 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 66, 222) }
```

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

```
.background{ background-color: rgb(227, 66,  
222) }
```

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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