

# Converting Colors

XYZ(46.9384, 29.6721, 57.9698)

Have a look what the booklet for  
XYZ(46.9384, 29.6721, 57.9698)  
contains.

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# Color

**XYZ(46.8821, 29.5878,  
57.8836)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E463C8
RGB	228, 99, 200
RGB Percent	89%, 39%, 78%
CMY	0.1059, 0.6117, 0.2157
CMYK	0.00, 0.57, 0.12, 0.11
HSL	313°, 70%, 64%
HSV	313°, 57%, 89%
XYZ	46.8821, 29.5878, 57.8836
YIQ	149.0850, 44.4630, 58.7590

# Conversions

## Conversions Part 2

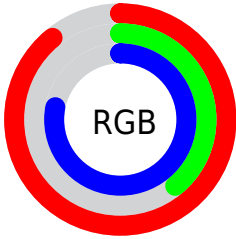
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	228, 99, 200
Decimal	14967752
CIE Lab	61.30, 61.88, -28.75
CIE LCh	61, 68.232, 335.083
Yxy	29.5878, 0.3489, 0.2202
Android (android.graphics.Color)	4293157832 (0xFFE463C8)
YUV	149.0850, 25.1011, 69.2085
Hunter-Lab	54.3947, 58.6563, -25.0167

# Details

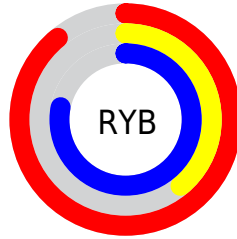
The XYZ color **46.8821, 29.5878, 57.8836** is a light color, and the websafe version is hex **FF66CC**. A complement of this color would be **36.7212, 59.6729, 29.6637**, and the grayscale version is **28.4886, 29.9722, 32.6398**.

A 20% lighter version of the original color is **71.0113, 51.9227, 100.8871**, and **22.4914, 12.0724, 28.3389** is the 20% darker color. If you saturate the color by 10%, you get **44.4501, 25.6340, 54.2653**, and if you desaturate by 10%, it is **49.9444, 34.7711, 61.8049**.

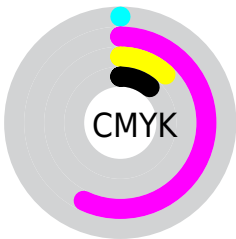
# Distribution



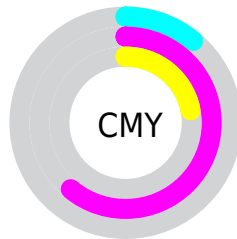
- Red (89%)
- Green (39%)
- Blue (78%)



- Red (89%)
- Yellow (39%)
- Blue (78%)



- Cyan (0%)
- Magenta (57%)
- Yellow (12%)
- Black (11%)



- Cyan (11%)
- Magenta (61%)
- Yellow (22%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.8821, 29.5878, 57.8836 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 46.8821, 29.5878, 57.8836 by changing the saturation by 10% instead.




 46.8821, 29.5878,  
57.8836

 46.8821, 29.5878,  
57.8836

365.0005,  
299.9783, 434.3382


 33.1500, 19.5259,  
41.3010


 84.7574, 59.0097,  
103.2664

 22.4012, 12.0509,  
28.2329


 109.6314, 79.1385,  
132.9037

 14.2702, 6.7784,  
18.2607


 138.9500,  
103.3918, 167.7297

 8.3918, 3.3239,  
10.9660

 173.0786,  
132.1538, 208.1629

 4.4006, 1.3031,  
5.9301

212.3826,  
165.8091, 254.6218

 1.9312, 0.1436,  
2.7345

257.2274,

 0.5948, 0.0000,

204.7421, 307.5249

0.9607

307.9782,  
249.3370, 367.2909

■ 0.0000, 0.0000,  
0.0000

■ 46.8821, 29.5878,  
57.8836

■ 46.8821, 29.5878,  
57.8836

■ 44.4501, 25.6340,  
54.2653

■ 49.9444, 34.7711,  
61.8049

■ 42.5924, 22.7997,  
50.9297

■ 53.6809, 41.2730,  
66.0439

■ 41.2481, 20.9629,  
47.8559

■ 58.1348, 49.1793,  
70.6161

■ 40.3390, 19.9672,  
45.0170

■ 63.3449, 58.5673,  
75.5354

■ 40.0824, 19.7290,  
44.0837

■ 69.3473, 69.5086,  
80.8143

■ 76.1754, 82.0701,  
86.4651

■ 82.6993, 93.9918,  
92.1118

■ 83.4231, 94.2813,  
95.9233

■ 84.1669, 94.5788,  
99.8403

# Harmonies

## Analogous

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



39.2675, 29.5878, 92.0424



46.8821, 29.5878, 57.8836



49.0813, 29.5878, 28.0283

# Triad

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



46.8821, 29.5878, 57.8836



26.6193, 29.5878, 3.7910



16.2207, 29.5878, 69.8458

# Complementary

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



46.8821, 29.5878, 57.8836



36.7212, 59.6729, 29.6637

# 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.



14.1845, 29.5878, 36.8015



46.8821, 29.5878, 57.8836



19.3149, 29.5878, 6.3194

# Square

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



46.8821, 29.5878, 57.8836



36.0477, 29.5878, 4.9520



15.1830, 29.5878, 15.5423



21.4530, 29.5878, 101.1538



# Rectangle

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



46.8821, 29.5878, 57.8836



46.8525, 29.5878, 15.4629



15.1830, 29.5878, 15.5423



15.1970, 29.5878, 58.0747

# Sweetspot

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



46.8831, 29.5892, 57.8842



81.2678, 74.8008, 97.0140



27.2119, 19.0350, 75.6394



17.0891, 15.4575, 20.4838



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.



46.8831, 29.5892, 57.8842



56.7986, 32.2630, 69.1255



40.8700, 27.1840, 26.2200



14.8541, 14.5588, 17.4322



23.1905, 11.4104, 25.6959



1.7470, 0.8565, 2.0745



# Inverse Universe

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



46.8831, 29.5892, 57.8842



56.7986, 32.2630, 69.1255



42.3438, 61.9219, 59.2721



14.8541, 14.5588, 17.4322



23.1905, 11.4104, 25.6959



1.7470, 0.8565, 2.0745



# Previews

## White Background



This preview shows how the XYZ color 46.8821, 29.5878, 57.8836 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

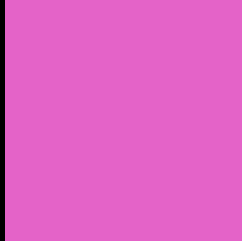
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.8821, 29.5878, 57.8836 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

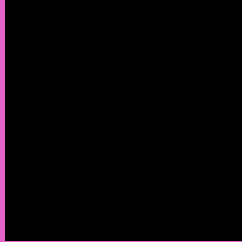
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 46.8821, 29.5878, 57.8836**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.8821, 29.5878, 57.8836.



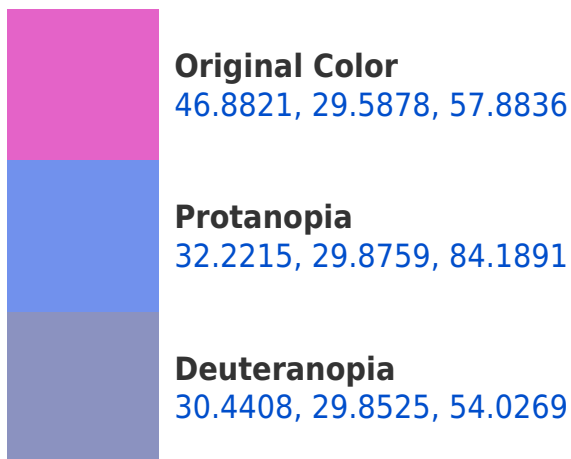
This preview shows how white text looks on a background with the XYZ color 46.8821, 29.5878,



# 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

39.6424, 29.4446, 23.3327

# Trichromacy



## Original Color

46.8821, 29.5878, 57.8836



## Protanomaly

34.6913, 27.7887, 74.0563



## Deuteranomaly

34.4952, 28.2986, 55.2738



## Tritanomaly

41.7571, 29.1397, 33.5607

# Monochromacy



## Original Color

46.8821, 29.5878, 57.8836



## Achromatopsia

28.5667, 30.0544, 32.7292



## Achromatomaly

33.5443, 28.5247, 40.7836

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.8821, 29.5878, 57.8836 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, 99, 200)` looks like.

```
.text, #text, p{  
    color:rgb(228, 99, 200)  
}
```

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, 99, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 99, 200) }
```

## Border

The CSS property to change the border of an element to XYZ 46.8821, 29.5878, 57.8836 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, 99, 200) }
```



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

```
.border{ border-color:rgb(228, 99, 200) }
```

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

Here you see how a box with a 4 pixel rgb(228, 99, 200) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 99, 200); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 99, 200);  
box-shadow:4px 4px 4px 4px rgb(228, 99,  
200) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.8821, 29.5878, 57.8836 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 99, 200) }
```

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

```
.background{ background-color: rgb(228, 99,  
200) }
```

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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