

# Converting Colors

XYZ(46.5410, 27.6666, 83.1229)

Have a look what the booklet for  
XYZ(46.5410, 27.6666, 83.1229)  
contains.

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# Color

**XYZ(46.3828, 27.5729,  
82.9982)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D55AED
RGB	213, 90, 237
RGB Percent	84%, 35%, 93%
CMY	0.1647, 0.6470, 0.0706
CMYK	0.10, 0.62, 0.00, 0.07
HSL	290°, 80%, 64%
HSV	290°, 62%, 93%
XYZ	46.3828, 27.5729, 82.9982
YIQ	143.5350, 26.1210, 71.7930

# Conversions

## Conversions Part 2

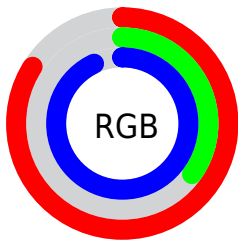
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	213, 90, 237
Decimal	13982445
CIE Lab	59.50, 68.21, -52.52
CIE LCh	60, 86.093, 322.404
Yxy	27.5729, 0.2955, 0.1757
Android (android.graphics.Color)	4292172525 (0xFFD55AED)
YUV	143.5350, 46.0782, 60.9208
Hunter-Lab	52.5099, 65.7794, -56.9580

# Details

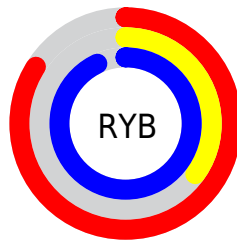
The XYZ color **46.3828, 27.5729, 82.9982** is a light color, and the websafe version is hex **CC66FF**. The color can be described as light muted magenta. A complement of this color would be **39.0699, 64.8846, 20.1388**, and the grayscale version is **26.1375, 27.4987, 29.9460**.

A 20% lighter version of the original color is **69.7237, 49.3474, 100.4579**, and **22.1034, 10.9591, 44.1304** is the 20% darker color. If you saturate the color by 10%, you get **43.5843, 23.6213, 82.3834**, and if you desaturate by 10%, it is **49.8473, 32.8147, 83.8278**.

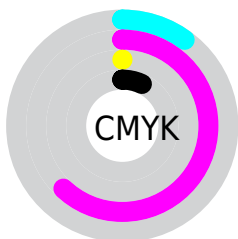
# Distribution



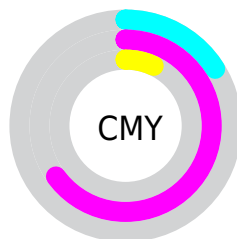
- Red (84%)
- Green (35%)
- Blue (93%)



- Red (84%)
- Yellow (35%)
- Blue (93%)



- Cyan (10%)
- Magenta (62%)
- Yellow (0%)
- Black (7%)




- Cyan (16%)
- Magenta (65%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.3828, 27.5729, 82.9982 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 46.3828, 27.5729, 82.9982 by changing the saturation by 10% instead.





 46.3828, 27.5729,  
82.9982

 46.3828, 27.5729,  
82.9982

363.0357,  
290.4204, 524.9514


 32.7539, 18.0040,  
61.6481


 84.0160, 55.8018,  
139.4222

 22.0963, 10.9528,  
44.3144


 108.7509, 75.2306,  
175.3330

 14.0447, 6.0351,  
30.5788


 137.9187, 98.7148,  
216.9346

 8.2337, 2.8664,  
20.0225

 171.8845,  
126.6387, 264.6454

 4.2979, 1.0624,  
12.2272

211.0137,  
159.3869, 318.8839

 1.8720, 0.0000,  
6.7742

255.6718,

 0.5605, 0.0000,

197.3436, 380.0687

3.2450

306.2240,  
240.8933, 448.6184

■ 0.0000, 0.0000,  
1.2210

■ 0.0000, 0.0000,  
0.0000

■ 46.3828, 27.5729,  
82.9982

■ 46.3828, 27.5729,  
82.9982

■ 43.5843, 23.6213,  
82.3834

■ 49.8473, 32.8147,  
83.8278

■ 41.3853, 20.8303,  
81.9606


■ 54.0294, 39.4527,  
84.8886


■ 39.7109, 19.0492,  
81.7050


■ 58.9792, 47.5859,  
86.1976


■ 38.6560, 18.1621,  
81.5894

■ 64.7415, 57.3034,  
87.7696

 71.3574, 68.6872,  
89.6182

 78.8650, 81.8135,  
91.7561

 87.0108, 96.1749,  
94.0988

 88.3392, 96.8597,  
94.1610

 89.6957, 97.5590,  
94.2245

# Harmonies

## Analogous

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



34.9608, 27.5729, 125.6284



46.3828, 27.5729, 82.9982



52.7025, 27.5729, 38.6040

# Triad

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



46.3828, 27.5729, 82.9982



29.0537, 27.5729, 1.2268



11.2977, 27.5729, 58.9296

# Complementary

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



46.3828, 27.5729, 82.9982



39.0699, 64.8846, 20.1388

# 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.



10.5243, 27.5729, 22.8170



46.3828, 27.5729, 82.9982



19.0523, 27.5729, 1.7612

# Square

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



46.3828, 27.5729, 82.9982



41.0545, 27.5729, 3.2374



12.9403, 27.5729, 6.3724



15.4558, 27.5729, 106.2720



# Rectangle

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



46.3828, 27.5729, 82.9982



52.2212, 27.5729, 18.9583



12.9403, 27.5729, 6.3724



10.6901, 27.5729, 44.7219

# Sweetspot

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



46.3839, 27.5741, 82.9988



78.6435, 71.4184, 104.2479



25.5774, 20.4371, 82.7178



16.3748, 14.5033, 22.1863



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.



46.3839, 27.5741, 82.9988



50.8160, 27.0297, 97.1467



47.6591, 28.9487, 50.6539



15.4594, 15.1821, 19.0379



21.1996, 9.9647, 44.5490



1.7291, 0.8157, 3.5012



# Inverse Universe

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



41.6193, 26.5328, 18.8484



45.3685, 26.0566, 13.9737



39.1617, 64.6068, 34.8338



15.1658, 15.0942, 16.1582



19.2965, 9.9213, 2.0969

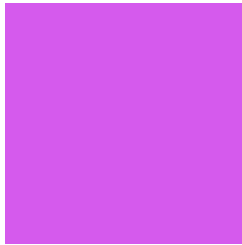


1.5452, 0.7910, 0.3223



# Previews

## White Background



This preview shows how the XYZ color 46.3828, 27.5729, 82.9982 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

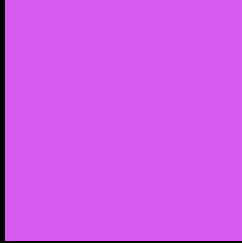
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.3828, 27.5729, 82.9982 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

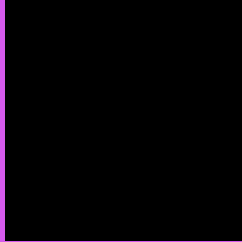
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 46.3828, 27.5729, 82.9982**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.3828, 27.5729, 82.9982.



This preview shows how white text looks on a background with the XYZ color 46.3828, 27.5729,



# 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

46.3828, 27.5729, 82.9982

### Protanopia

31.4526, 28.0509, 98.3644

### Deuteranopia

28.7682, 28.0340, 76.5679



## Tritanopia

34.4198, 27.4286, 24.5992

# Trichromacy



## Original Color

46.3828, 27.5729, 82.9982



## Protanomaly

33.5757, 25.6829, 91.9946



## Deuteranomaly

32.2789, 25.6738, 78.8556



## Tritanomaly

37.6392, 26.8538, 40.7356

# Monochromacy



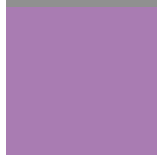
## Original Color

46.3828, 27.5729, 82.9982



## Achromatopsia

26.5089, 27.8894, 30.3716



## Achromatomaly

31.6057, 26.0647, 45.4847

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.3828, 27.5729, 82.9982 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(213, 90, 237)` looks like.

```
.text, #text, p{  
    color:rgb(213, 90, 237)  
}
```

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(213, 90, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(213, 90, 237) }
```

## Border

The CSS property to change the border of an element to XYZ 46.3828, 27.5729, 82.9982 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(213, 90, 237) }
```



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

```
.border{ border-color:rgb(213, 90, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(213, 90, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(213, 90, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(213, 90, 237);  
box-shadow:4px 4px 4px 4px rgb(213, 90,  
237) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.3828, 27.5729, 82.9982 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(213, 90, 237) }
```

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

```
.background{ background-color: rgb(213, 90,  
237) }
```

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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