

# Converting Colors

XYZ(46.9463, 28.1234, 74.4912)

Have a look what the booklet for  
XYZ(46.9463, 28.1234, 74.4912)  
contains.

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# Color

**XYZ(46.8469, 28.1341,  
74.1955)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DC5BE1
RGB	220, 91, 225
RGB Percent	86%, 36%, 88%
CMY	0.1372, 0.6431, 0.1176
CMYK	0.02, 0.60, 0.00, 0.12
HSL	298°, 69%, 62%
HSV	298°, 60%, 88%
XYZ	46.8469, 28.1341, 74.1955
YIQ	144.8470, 33.8700, 69.0220

# Conversions

## Conversions Part 2

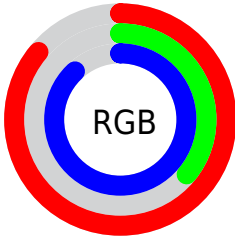
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	220, 91, 225
Decimal	14441441
CIE <sub>Lab</sub>	60.01, 67.33, -44.94
CIE <sub>LCh</sub>	60, 80.953, 326.276
Y <sub>xy</sub>	28.1341, 0.3140, 0.1886
Android (android.graphics.Color)	4292631521 (0xFFDC5BE1)
Y <sub>UV</sub>	144.8470, 39.5154, 65.9092
Hunter-Lab	53.0416, 64.8303, -45.8068

# Details

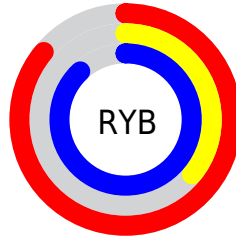
The XYZ color **46.8469, 28.1341, 74.1955** is a light color, and the websafe version is hex **CC33CC**. The color can be described as light muted magenta. A complement of this color would be **33.6384, 57.0933, 19.1461**, and the grayscale version is **26.6880, 28.0779, 30.5768**.

A 20% lighter version of the original color is **69.8799, 49.6598, 100.5100**, and **22.4311, 11.2847, 38.5320** is the 20% darker color. If you saturate the color by 10%, you get **44.9507, 24.7172, 73.6363**, and if you desaturate by 10%, it is **49.3228, 32.7070, 74.9481**.

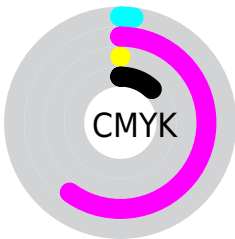
# Distribution



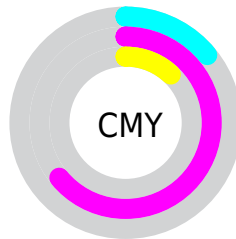
- Red (86%)
- Green (36%)
- Blue (88%)



- Red (86%)
- Yellow (36%)
- Blue (88%)



- Cyan (2%)
- Magenta (60%)
- Yellow (0%)
- Black (12%)




- Cyan (14%)
- Magenta (64%)
- Yellow (12%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.8469, 28.1341, 74.1955 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 46.8469, 28.1341, 74.1955 by changing the saturation by 10% instead.





 46.8469, 28.1341,  
74.1955

 46.8469, 28.1341,  
74.1955

364.8622,  
293.1071, 494.3293

 33.1221, 18.4268,  
54.4563


 84.7052, 56.6985,  
126.9095


 22.3797, 11.2568,  
38.5709

 109.5694, 76.3243,  
160.7214

 14.2543, 6.2398,  
26.1208


 138.8774,  
100.0251, 200.0613

 8.3806, 2.9915,  
16.6875

 172.9945,  
128.1852, 245.3477

 4.3933, 1.1273,  
9.8523

212.2863,  
161.1891, 296.9991

 1.9270, 0.0011,  
5.1968

257.1179,

 0.5924, 0.0000,

199.4211, 355.4342

2.3025

307.8547,  
243.2657, 421.0714

■ 0.0000, 0.0000,  
0.7326

■ 0.0000, 0.0000,  
0.0000

■ 46.8469, 28.1341,  
74.1955

■ 46.8469, 28.1341,  
74.1955

■ 44.9507, 24.7172,  
73.6363

■ 49.3228, 32.7070,  
74.9481

■ 43.5779, 22.3459,  
73.2510


■ 52.4221, 38.5255,  
75.9078


■ 42.6663, 20.8952,  
73.0190


■ 56.1877, 45.6749,  
77.0893


■ 42.1111, 20.1553,  
72.9054


■ 60.6581, 54.2317,  
78.5053


 42.0890, 20.1277,  
72.9013

 65.8685, 64.2668,  
80.1677

 71.8520, 75.8461,  
82.0873

 78.6397, 89.0319,  
84.2747

 80.9400, 93.2412,  
84.9659

 81.2050, 93.3778,  
84.9783

# Harmonies

## Analogous

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



36.5104, 28.1341, 114.9358



46.8469, 28.1341, 74.1955



51.7984, 28.1341, 34.4706

# Triad

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



46.8469, 28.1341, 74.1955



28.0489, 28.1341, 1.7290



12.6140, 28.1341, 63.2627

# Complementary

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



46.8469, 28.1341, 74.1955



33.6384, 57.0933, 19.1461

# 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.



11.4369, 28.1341, 27.0919



46.8469, 28.1341, 74.1955



18.8905, 28.1341, 2.7197

# Square

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



46.8469, 28.1341, 74.1955



39.3243, 28.1341, 3.5215



13.4104, 28.1341, 8.6892



17.1763, 28.1341, 106.2603



# Rectangle

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



46.8469, 28.1341, 74.1955



50.6379, 28.1341, 17.3188



13.4104, 28.1341, 8.6892



11.8694, 28.1341, 49.4564

# Sweetspot

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



46.8479, 28.1354, 74.1961



81.4878, 73.8067, 104.5590



22.2459, 16.3411, 73.2162



17.0393, 15.0247, 22.2519



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.



46.8479, 28.1354, 74.1961



59.2939, 32.1122, 97.6809



41.5576, 26.1967, 38.3219



14.2418, 13.9082, 17.3216



24.2766, 11.6103, 42.0099



1.6987, 0.8130, 2.9126



# Inverse Universe

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



36.9047, 24.3355, 13.8197



45.1596, 26.7405, 10.5079



36.8510, 58.3194, 38.7221



13.7279, 13.7088, 14.3371



17.9292, 9.2387, 1.0268

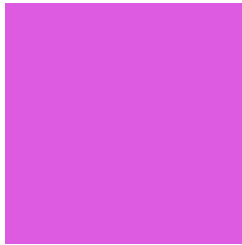


1.2502, 0.6433, 0.1102



# Previews

## White Background



This preview shows how the XYZ color 46.8469, 28.1341, 74.1955 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

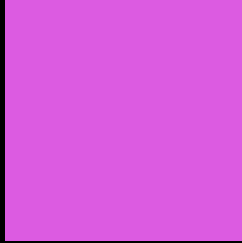
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 46.8469, 28.1341, 74.1955 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

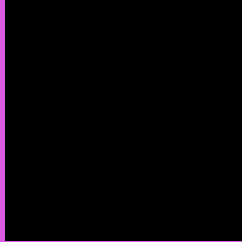
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 46.8469, 28.1341, 74.1955**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.8469, 28.1341, 74.1955.



This preview shows how white text looks on a background with the XYZ color 46.8469, 28.1341,



# 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

46.8469, 28.1341, 74.1955

### Protanopia

31.9885, 28.5451, 98.4315

### Deuteranopia

29.1780, 28.4151, 68.9126



## Tritanopia

36.3216, 27.8991, 23.5494

# Trichromacy



## Original Color

46.8469, 28.1341, 74.1955



## Protanomaly

34.0596, 26.1865, 88.8473



## Deuteranomaly

33.0687, 26.4571, 70.3817



## Tritanomaly

39.1248, 27.3665, 37.8705

# Monochromacy



## Original Color

46.8469, 28.1341, 74.1955



## Achromatopsia

26.9133, 28.3149, 30.8349



## Achromatomaly

31.9869, 26.4939, 43.4723

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.8469, 28.1341, 74.1955 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(220, 91, 225)` looks like.

```
.text, #text, p{  
    color:rgb(220, 91, 225)  
}
```

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(220, 91, 225) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 91, 225) }
```

## Border

The CSS property to change the border of an element to XYZ 46.8469, 28.1341, 74.1955 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(220, 91, 225) }
```



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

```
.border{ border-color:rgb(220, 91, 225) }
```

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

Here you see how a box with a 4 pixel rgb(220, 91, 225) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 91, 225); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 91, 225);  
box-shadow:4px 4px 4px 4px rgb(220, 91,  
225) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.8469, 28.1341, 74.1955 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 91, 225) }
```

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

```
.background{ background-color: rgb(220, 91,  
225) }
```

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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