

# Converting Colors

XYZ(48.7177, 35.0754, 67.8408)

Have a look what the booklet for  
XYZ(48.7177, 35.0754, 67.8408)  
contains.

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# Color

**XYZ(48.7702, 35.1988,  
67.8419)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DA80D6
RGB	218, 128, 214
RGB Percent	85%, 50%, 84%
CMY	0.1451, 0.4980, 0.1608
CMYK	0.00, 0.41, 0.02, 0.15
HSL	303°, 55%, 68%
HSV	303°, 41%, 85%
XYZ	48.7702, 35.1988, 67.8419
YIQ	164.7140, 26.0340, 45.8260

# Conversions

## Conversions Part 2

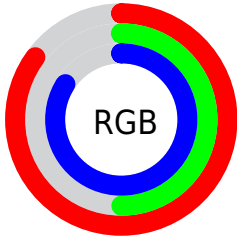
Format	Color
R <sub>Y</sub> B	218, 128, 214
Decimal	14319830
CIE <sub>Lab</sub>	65.90, 47.26, -29.61
CIE <sub>LCh</sub>	66, 55.769, 327.932
Yxy	35.1988, 0.3213, 0.2319
Android (android.graphics.Color)	4292509910 (0xFFDA80D6)
YUV	164.7140, 24.2980, 46.7318
Hunter-Lab	59.3286, 42.9083, -26.2678

# Details

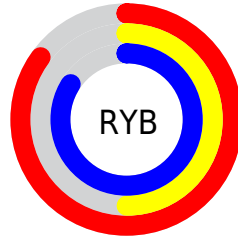
The XYZ color **48.7702, 35.1988, 67.8419** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **38.1398, 56.3992, 30.7078**, and the grayscale version is **35.5070, 37.3561, 40.6808**.

A 20% lighter version of the original color is **76.2235, 62.3470, 102.6245**, and **23.4720, 15.1124, 34.4808** is the 20% darker color. If you saturate the color by 10%, you get **46.1033, 30.0617, 66.3444**, and if you desaturate by 10%, it is **52.0510, 41.5609, 69.5483**.

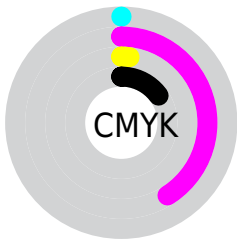
# Distribution



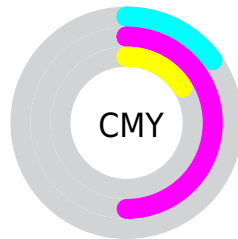
- Red (85%)
- Green (50%)
- Blue (84%)



- Red (85%)
- Yellow (50%)
- Blue (84%)



- Cyan (0%)
- Magenta (41%)
- Yellow (2%)
- Black (15%)




- Cyan (15%)
- Magenta (50%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.7702, 35.1988, 67.8419 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 48.7702, 35.1988, 67.8419 by changing the saturation by 10% instead.





 48.7702, 35.1988,  
67.8419


 48.7702, 35.1988,  
67.8419


372.3689,  
325.4450, 471.5185


 34.6510, 23.8161,  
49.3032

 87.5528, 67.7936,  
117.7780

 23.5594, 15.1972,  
34.4928


 112.9470, 89.7745,  
150.0126

 15.1301, 8.9579,  
22.9920


 142.8302,  
116.0569, 187.6495

 8.9976, 4.7137,  
14.3824

177.5677,  
147.0251, 231.1073

 4.7967, 2.0803,  
8.2453

217.5250,  
183.0637, 280.8046

 2.1620, 0.6535,  
4.1623

263.0674,

 0.7226, 0.0000,

224.5569, 337.1598

1.7148

314.5603,  
271.8892, 400.5916

■ 0.0000, 0.0000,  
0.3708

■ 0.0000, 0.0000,  
0.0000

■ 48.7702, 35.1988,  
67.8419

■ 48.7702, 35.1988,  
67.8419

■ 46.1033, 30.0617,  
66.3444

■ 52.0510, 41.5609,  
69.5483

■ 44.0072, 26.0659,  
65.0405


■ 55.9781, 49.2154,  
71.4735


■ 42.4391, 23.1249,  
63.9162


■ 60.5860, 58.2300,  
73.6292


■ 41.3484, 21.1374,  
62.9547


■ 65.9055, 68.6668,  
76.0258


 40.6747, 19.9827,  
62.1357


 71.9656, 80.5837,  
78.6729

 40.3373, 19.4750,  
61.5081

 77.5676, 91.5831,  
81.1710

 77.6962, 91.6346,  
81.8482

 77.8256, 91.6863,  
82.5294

 77.9557, 91.7384,  
83.2146

# Harmonies

## Analogous

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



41.4454, 35.1988, 94.0696



48.7702, 35.1988, 67.8419



51.9332, 35.1988, 39.9875

# Triad

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



48.7702, 35.1988, 67.8419



34.0308, 35.1988, 8.5007



21.3115, 35.1988, 63.7731

# Complementary

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



48.7702, 35.1988, 67.8419



38.1398, 56.3992, 30.7078

# 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.



19.9804, 35.1988, 36.7102



48.7702, 35.1988, 67.8419



26.5645, 35.1988, 10.5776

# Square

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



48.7702, 35.1988, 67.8419



42.5990, 35.1988, 11.2875



21.7379, 35.1988, 18.9190



25.7238, 35.1988, 91.1195



# Rectangle

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



48.7702, 35.1988, 67.8419



50.9211, 35.1988, 25.9760



21.7379, 35.1988, 18.9190



20.5242, 35.1988, 54.0749

# Sweetspot

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



48.7714, 35.2004, 67.8426



85.8350, 81.9193, 104.7517



29.7357, 25.3274, 69.6520



18.1770, 17.1517, 22.3311



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.



48.7714, 35.2004, 67.8426



66.0449, 43.4285, 94.7961



43.8897, 33.2477, 42.1361



13.5881, 13.2643, 16.3580



24.1769, 11.6718, 36.9070



1.5742, 0.7593, 2.4327



# Inverse Universe

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



48.7714, 35.2004, 67.8426



66.0449, 43.4285, 94.7961



41.8114, 57.8678, 50.0418



13.5881, 13.2643, 16.3580



24.1769, 11.6718, 36.9070

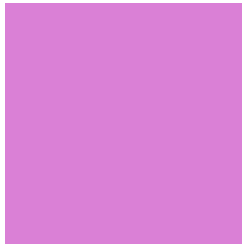


1.5742, 0.7593, 2.4327



# Previews

## White Background



This preview shows how the XYZ color 48.7702, 35.1988, 67.8419 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

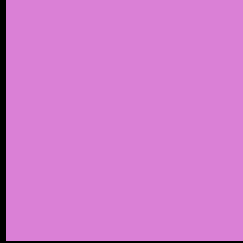
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.7702, 35.1988, 67.8419 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

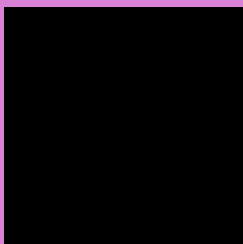
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 48.7702, 35.1988, 67.8419**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.7702, 35.1988, 67.8419.



This preview shows how white text looks on a background with the XYZ color 48.7702, 35.1988,



# 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

48.7702, 35.1988, 67.8419

### Protanopia

37.3444, 35.6365, 85.0310

### Deuteranopia

36.3132, 35.5412, 65.2678



## Tritanopia

41.7707, 35.0184, 34.2634

# Trichromacy



## Original Color

48.7702, 35.1988, 67.8419



## Protanomaly

40.0936, 34.5239, 78.6794



## Deuteranomaly

39.8708, 34.6845, 66.2214



## Tritanomaly

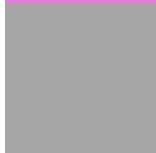
43.9826, 34.8496, 44.9659

# Monochromacy



## Original Color

48.7702, 35.1988, 67.8419



## Achromatopsia

35.7637, 37.6262, 40.9749



## Achromatomaly

39.5426, 36.0657, 49.6770

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.7702, 35.1988, 67.8419 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(218, 128, 214)` looks like.

```
.text, #text, p{  
    color:rgb(218, 128, 214)  
}
```

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(218, 128, 214) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(218, 128, 214) }
```

## Border

The CSS property to change the border of an element to XYZ 48.7702, 35.1988, 67.8419 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(218, 128, 214) }
```



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

```
.border{ border-color:rgb(218, 128, 214) }
```

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

Here you see how a box with a 4 pixel `rgb(218, 128, 214)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(218, 128, 214); -webkit-box-  
shadow:4px 4px 4px 4px rgb(218, 128, 214);  
box-shadow:4px 4px 4px 4px rgb(218, 128,  
214) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.7702, 35.1988, 67.8419 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(218, 128, 214) }
```

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

```
.background{ background-color: rgb(218,  
128, 214) }
```

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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