

# Converting Colors

XYZ(37.7012, 17.9889, 67.1308)

Have a look what the booklet for  
XYZ(37.7012, 17.9889, 67.1308)  
contains.

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# Color

**XYZ(37.7012, 17.9889,  
67.1308)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CD00D9
RGB	205, 0, 217
RGB Percent	80%, 0%, 85%
CMY	0.1961, 0.9999, 0.1490
CMYK	0.06, 1.00, 0.00, 0.15
HSL	297°, 100%, 43%
HSV	297°, 100%, 85%
XYZ	37.7012, 17.9889, 67.1308
YIQ	86.0330, 52.5230, 110.9470

# Conversions

## Conversions Part 2

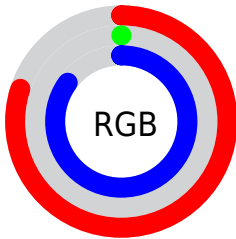
<b>Format</b>	<b>Color</b>
<b>RYB</b>	205, 0, 217
Decimal	13435097
CIELab	49.48, 85.12, -57.32
CIELCh	49, 102.623, 326.043
Yxy	17.9889, 0.3070, 0.1465
Android (android.graphics.Color)	4291625177 (0xFFCD00D9)
YUV	86.0330, 64.5667, 104.3341
Hunter-Lab	42.4133, 84.4453, -64.1535

# Details

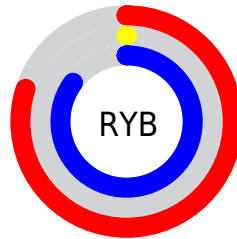
The XYZ color **37.7012, 17.9889, 67.1308** is a dark color, and the websafe version is hex **CC00CC**. The color can be described as middle washed magenta. A complement of this color would be **24.9651, 49.7043, 8.2789**, and the grayscale version is **8.7156, 9.1695, 9.9855**.

A 20% lighter version of the original color is **63.2927, 36.4854, 98.3142**, and **18.2871, 8.6842, 34.4306** is the 20% darker color. If you saturate the color by 10%, you get **37.7013, 17.9889, 67.1311**, and if you desaturate by 10%, it is **38.3157, 18.7239, 67.2405**.

# Distribution



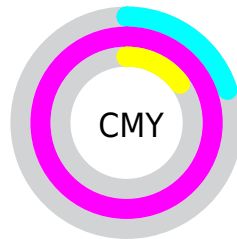
- Red (80%)
- Green (0%)
- Blue (85%)



- Red (80%)
- Yellow (0%)
- Blue (85%)



- Cyan (6%)
- Magenta (100%)
- Yellow (0%)
- Black (15%)



- Cyan (20%)
- Magenta (100%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7012, 17.9889, 67.1308 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 37.7012, 17.9889, 67.1308 by changing the saturation by 10% instead.



 37.7012, 17.9889,  
67.1308


 37.7012, 17.9889,  
67.1308


327.6395,  
240.8085, 468.9244


 25.9270, 10.9420,  
48.7287


 70.9568, 40.0184,  
116.7502

 16.9014, 6.0279,  
34.0402


 93.1689, 55.7698,  
148.8046


 10.2591, 2.8620,  
22.6469


 119.5910, 75.1915,  
186.2469

 5.6347, 1.0601,  
14.1301

 150.5885, 98.6680,  
229.4954

 2.6628, 0.0000,  
8.0715

 186.5268,  
126.5835, 278.9690

 0.9780, 0.0000,  
4.0523

 227.7711,

 0.0000, 0.0000,

159.3225, 335.0859

1.6541

274.6869,  
197.2693, 398.2649

■ 0.0000, 0.0000,  
0.3290

■ 0.0000, 0.0000,  
0.0000

■ 37.7012, 17.9889,  
67.1308

■ 37.7012, 17.9889,  
67.1308

■ 37.7013, 17.9889,  
67.1311

■ 38.3157, 18.7239,  
67.2405

■ 39.2484, 20.0921,  
67.4555

■ 40.6039, 22.3022,  
67.8106

■ 42.4405, 25.4707,  
68.3254

■ 44.8072, 29.6955,  
69.0161

■ 47.7469, 35.0626,  
69.8971

■ 51.2981, 41.6489,  
70.9813

■ 55.4961, 49.5249,  
72.2802

■ 60.3733, 58.7555,  
73.8049

# Harmonies

## Analogous

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



26.6627, 17.9889, 117.4333



37.7012, 17.9889, 67.1308



43.2675, 17.9889, 23.5082

# Triad

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



37.7012, 17.9889, 67.1308



18.4173, 17.9889, 0.0000



5.2195, 17.9889, 53.6406

# Complementary

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



37.7012, 17.9889, 67.1308



24.9651, 49.7043, 8.2789

# 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.



4.4252, 17.9889, 16.1278



37.7012, 17.9889, 67.1308



10.1473, 17.9889, 0.0000

# Square

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



37.7012, 17.9889, 67.1308



29.7737, 17.9889, 0.0135



5.8250, 17.9889, 2.3368



8.6532, 17.9889, 105.6855



# Rectangle

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



37.7012, 17.9889, 67.1308



42.0135, 17.9889, 8.2234



5.8250, 17.9889, 2.3368



4.7080, 17.9889, 38.3664

# Sweetspot

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



37.7020, 17.9897, 67.1312



73.7707, 59.7266, 102.2480



12.6885, 5.3374, 66.0074



15.3025, 11.8769, 21.7359



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.



37.7020, 17.9897, 67.1312



54.2909, 25.9029, 96.7460



32.1895, 16.1819, 20.1587



13.5395, 13.2363, 16.4934



22.8524, 10.9050, 40.6388



1.5027, 0.7179, 2.6338



# Inverse Universe

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



28.6822, 14.7790, 1.6896



41.3200, 21.2920, 2.3511



26.8359, 50.4351, 18.9217



13.0851, 13.0631, 13.7093



17.3747, 8.9509, 1.0873



1.1361, 0.5841, 0.1258



# Previews

## White Background



This preview shows how the XYZ color 37.7012, 17.9889, 67.1308 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

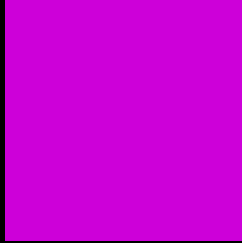
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.7012, 17.9889, 67.1308 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 37.7012, 17.9889, 67.1308**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.7012, 17.9889, 67.1308.



This preview shows how white text looks on a background with the XYZ color 37.7012, 17.9889,



# 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

37.7012, 17.9889, 67.1308

### Protanopia

22.3084, 18.7325, 87.2340

### Deuteranopia

19.2464, 18.6333, 59.7089



## Tritanopia

26.3720, 18.1995, 12.0204

# Trichromacy



## Original Color

37.7012, 17.9889, 67.1308



## Protanomaly

20.1355, 12.2015, 79.1358



## Deuteranomaly

20.5235, 13.0873, 61.7660



## Tritanomaly

28.3402, 16.0466, 25.2705

# Monochromacy



## Original Color

37.7012, 17.9889, 67.1308



## Achromatopsia

8.8453, 9.3059, 10.1341



## Achromatomaly

14.7225, 9.1207, 23.5388

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.7012, 17.9889, 67.1308 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(205, 0, 217)` looks like.

```
.text, #text, p{  
    color:rgb(205, 0, 217)  
}
```

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(205, 0, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 0, 217) }
```

## Border

The CSS property to change the border of an element to XYZ 37.7012, 17.9889, 67.1308 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(205, 0, 217) }
```



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

```
.border{ border-color:rgb(205, 0, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(205, 0, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 0, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 0, 217);  
box-shadow:4px 4px 4px 4px rgb(205, 0,  
217) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.7012, 17.9889, 67.1308 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 0, 217) }
```

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

```
.background{ background-color: rgb(205, 0,  
217) }
```

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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