

# Converting Colors

XYZ(36.9785, 17.1180, 89.6388)

Have a look what the booklet for  
XYZ(36.9785, 17.1180, 89.6388)  
contains.

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# Color

**XYZ(37.0382, 17.1545,  
89.3547)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BA00F7
RGB	186, 0, 247
RGB Percent	73%, 0%, 97%
CMY	0.2706, 1.0000, 0.0314
CMYK	0.25, 1.00, 0.00, 0.03
HSL	285°, 100%, 48%
HSV	285°, 100%, 97%
XYZ	37.0382, 17.1545, 89.3547
YIQ	83.7720, 31.5690, 116.2490

# Conversions

## Conversions Part 2

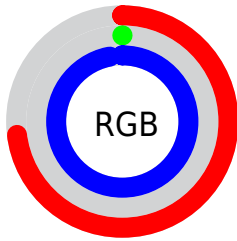
<b>Format</b>	<b>Color</b>
<b>RYB</b>	186, 0, 247
Decimal	12189943
CIELab	48.45, 87.39, -76.12
CIELCh	48, 115.892, 318.943
Yxy	17.1545, 0.2580, 0.1195
Android (android.graphics.Color)	4290380023 (0xFFBA00F7)
YUV	83.7720, 80.4714, 89.6540
Hunter-Lab	41.4180, 87.1428, -98.9190

# Details

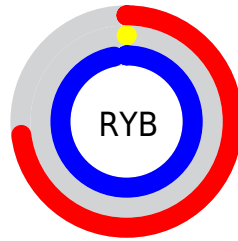
The XYZ color **37.0382, 17.1545, 89.3547** is a dark color, and the websafe version is hex **CC00FF**. The color can be described as middle saturated purple. A complement of this color would be **35.1859, 67.5141, 11.1774**, and the grayscale version is **8.2172, 8.6452, 9.4146**.

A 20% lighter version of the original color is **60.2349, 34.6484, 98.1208**, and **17.6428, 8.0341, 48.7650** is the 20% darker color. If you saturate the color by 10%, you get **37.0384, 17.1546, 89.3550**, and if you desaturate by 10%, it is **38.8944, 18.6183, 89.5397**.

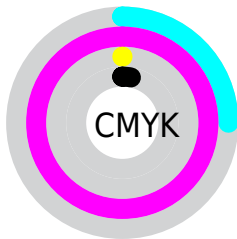
# Distribution



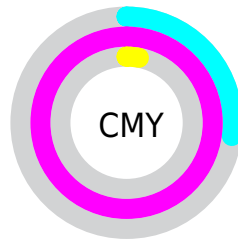
- Red (73%)
- Green (0%)
- Blue (97%)



- Red (73%)
- Yellow (0%)
- Blue (97%)



- Cyan (25%)
- Magenta (100%)
- Yellow (0%)
- Black (3%)




- Cyan (27%)
- Magenta (100%)
- Yellow (3%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.0382, 17.1545, 89.3547 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 37.0382, 17.1545, 89.3547 by changing the saturation by 10% instead.





 37.0382, 17.1545,  
89.3547


 37.0382, 17.1545,  
89.3547


324.8285,  
236.0611, 546.4453

 25.4109, 10.3447,  
66.8749


 69.9450, 38.5912,  
148.3694


 16.5138, 5.6281,  
48.5220


 91.9552, 53.9869,  
185.7413


 9.9816, 2.6203,  
33.8775


 118.1570, 73.0134,  
228.9144

 5.4489, 0.9369,  
22.5229

 148.9158, 96.0551,  
278.3071

 2.5504, 0.0000,  
14.0397

 184.5971,  
123.4963, 334.3380

 0.9208, 0.0000,  
8.0092

 225.5660,

 0.0000, 0.0000,

155.7214, 397.4257

4.0130

272.1881,  
193.1149, 467.9886

■ 0.0000, 0.0000,  
1.6325

■ 0.0000, 0.0000,  
0.3138

■ 37.0382, 17.1545,  
89.3547

■ 37.0382, 17.1545,  
89.3547

■ 37.0384, 17.1546,  
89.3550

■ 38.8944, 18.6183,  
89.5397

■ 41.2464, 20.9799,  
89.8716

■ 44.2297, 24.5080,  
90.3954

■ 47.9257, 29.3641,  
91.1379

■ 52.4028, 35.6841,  
92.1218

■ 57.7208, 43.5864,  
93.3668

■ 63.9334, 53.1776,  
94.8906

■ 71.0897, 64.5546,  
96.7095

■ 79.2350, 77.8070,  
98.8381

# Harmonies

## Analogous

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



23.8661, 17.1545, 146.3979



37.0382, 17.1545, 89.3547



45.6482, 17.1545, 32.2773

# Triad

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



37.0382, 17.1545, 89.3547



20.5397, 17.1545, 0.0000



3.6185, 17.1545, 44.7951

# Complementary

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



37.0382, 17.1545, 89.3547



35.1859, 67.5141, 11.1774

# 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.



3.3588, 17.1545, 9.5628



37.0382, 17.1545, 89.3547



10.5375, 17.1545, 0.0000

# Square

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



37.0382, 17.1545, 89.3547



33.7143, 17.1545, 0.0000



5.2510, 17.1545, 0.5189



6.2394, 17.1545, 106.4780



# Rectangle

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



37.0382, 17.1545, 89.3547



45.9085, 17.1545, 10.9875



5.2510, 17.1545, 0.5189



3.3134, 17.1545, 29.3143

# Sweetspot

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



37.0391, 17.1551, 89.3551



68.6978, 57.1114, 102.0106



18.4982, 10.1345, 88.9772



14.0750, 11.2441, 21.6784



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.



37.0391, 17.1551, 89.3551



39.7944, 18.4296, 96.0676



47.1417, 23.2879, 48.0494



16.7905, 16.5502, 20.8521



19.7241, 9.1425, 47.2631



1.8262, 0.8513, 4.1583



# Inverse Universe

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



39.2005, 20.1115, 6.2318



42.1365, 21.6186, 6.6510



34.1239, 66.8670, 15.6308



16.6670, 16.5496, 17.9928



20.7788, 10.6549, 3.5433



1.8655, 0.9522, 0.5184



# Previews

## White Background



This preview shows how the XYZ color 37.0382, 17.1545, 89.3547 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

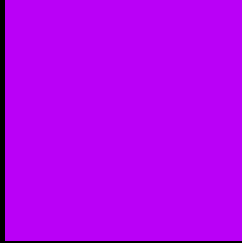
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.0382, 17.1545, 89.3547 looks on a black 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

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

**XYZ 37.0382, 17.1545, 89.3547**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.0382, 17.1545, 89.3547.



This preview shows how white text looks on a background with the XYZ color 37.0382, 17.1545,



# 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

37.0382, 17.1545, 89.3547

### Protanopia

21.0802, 17.7028, 82.4267

### Deuteranopia

17.7374, 17.6499, 60.8644



## Tritanopia

22.0832, 17.4414, 15.2993

# Trichromacy



## Original Color

37.0382, 17.1545, 89.3547



## Protanomaly

20.5143, 12.0863, 84.4708



## Deuteranomaly

18.0195, 11.6183, 69.6994



## Tritanomaly

24.7366, 14.6162, 32.9699

# Monochromacy



## Original Color

37.0382, 17.1545, 89.3547



## Achromatopsia

8.4267, 8.8656, 9.6546



## Achromatomaly

14.1162, 8.5943, 26.9015

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.0382, 17.1545, 89.3547 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(186, 0, 247)` looks like.

```
.text, #text, p{  
    color:rgb(186, 0, 247)  
}
```

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(186, 0, 247) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(186, 0, 247) }
```

## Border

The CSS property to change the border of an element to XYZ 37.0382, 17.1545, 89.3547 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(186, 0, 247) }
```



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

```
.border{ border-color:rgb(186, 0, 247) }
```

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

Here you see how a box with a 4 pixel `rgb(186, 0, 247)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(186, 0, 247); -webkit-box-  
shadow:4px 4px 4px 4px rgb(186, 0, 247);  
box-shadow:4px 4px 4px 4px rgb(186, 0,  
247) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.0382, 17.1545, 89.3547 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(186, 0, 247) }
```

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

```
.background{ background-color: rgb(186, 0,  
247) }
```

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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