

# Converting Colors

XYZ(37.4021, 17.3185, 90.4393)

Have a look what the booklet for  
XYZ(37.4021, 17.3185, 90.4393)  
contains.

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# Color

**XYZ(37.4368, 17.3421,  
90.1812)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BB00F8
RGB	187, 0, 248
RGB Percent	73%, 0%, 97%
CMY	0.2667, 1.0000, 0.0274
CMYK	0.25, 1.00, 0.00, 0.03
HSL	285°, 100%, 49%
HSV	285°, 100%, 97%
XYZ	37.4368, 17.3421, 90.1812
YIQ	84.1850, 31.8440, 116.7720

# Conversions

## Conversions Part 2

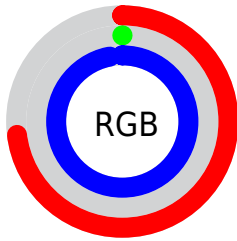
<b>Format</b>	<b>Color</b>
<b>RYB</b>	187, 0, 248
Decimal	12255480
CIELab	48.69, 87.69, -76.29
CIELCh	49, 116.229, 318.975
Yxy	17.3421, 0.2583, 0.1196
Android (android.graphics.Color)	4290445560 (0xFFBB00F8)
YUV	84.1850, 80.7608, 90.1688
Hunter-Lab	41.6438, 87.5904, -99.2439

# Details

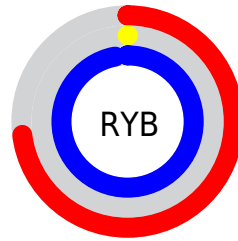
The XYZ color **37.4368, 17.3421, 90.1812** is a dark color, and the websafe version is hex **CC00FF**. The color can be described as middle saturated purple. A complement of this color would be **35.4926, 68.1275, 11.2796**, and the grayscale version is **8.3008, 8.7331, 9.5103**.

A 20% lighter version of the original color is **60.6758, 35.0052, 98.1664**, and **17.8984, 8.1533, 49.3456** is the 20% darker color. If you saturate the color by 10%, you get **37.4370, 17.3422, 90.1815**, and if you desaturate by 10%, it is **39.3055, 18.8155, 90.3674**.

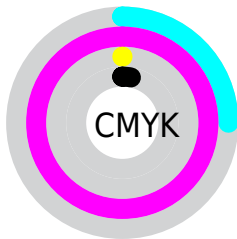
# Distribution



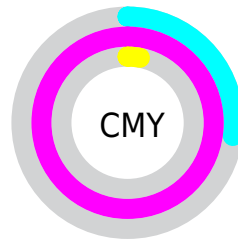
- Red (73%)
- Green (0%)
- Blue (97%)



- 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 37.4368, 17.3421, 90.1812 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 37.4368, 17.3421, 90.1812 by changing the saturation by 10% instead.




 37.4368, 17.3421,  
90.1812


 37.4368, 17.3421,  
90.1812

326.5206,  
237.1362, 549.2054


 25.7211, 10.4787,  
67.5564


 70.5536, 38.9130,  
149.5278


 16.7467, 5.7175,  
49.0725


 92.6853, 54.3894,  
187.0866


 10.1482, 2.6741,  
34.3110


 119.0198, 73.5054,  
230.4606

 5.5604, 0.9640,  
22.8533

 149.9224, 96.6457,  
280.0681

 2.6177, 0.0000,  
14.2809

 185.7584,  
124.1945, 336.3278

 0.9550, 0.0000,  
8.1753

 226.8932,

 0.0000, 0.0000,

156.5362, 399.6583

4.1180

273.6921,  
194.0553, 470.4779

■ 0.0000, 0.0000,  
1.6903

■ 0.0000, 0.0000,  
0.3541

■ 37.4368, 17.3421,  
90.1812

■ 37.4368, 17.3421,  
90.1812

■ 37.4370, 17.3422,  
90.1815

■ 39.3055, 18.8155,  
90.3674

■ 41.6745, 21.1953,  
90.7019

■ 44.6801, 24.7522,  
91.2301

■ 48.4047, 29.6495,  
91.9790

■ 52.9174, 36.0242,  
92.9716

■ 58.2784, 43.9963,  
94.2278

■ 64.5422, 53.6731,  
95.7655

■ 71.7582, 65.1527,  
97.6010

■ 79.9721, 78.5255,  
99.7493

# Harmonies

## Analogous

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



24.1348, 17.3421, 147.7964



37.4368, 17.3421, 90.1812



46.1226, 17.3421, 32.5718

# Triad

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



37.4368, 17.3421, 90.1812



20.7478, 17.3421, 0.0000



3.6647, 17.3421, 45.3160

# Complementary

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



37.4368, 17.3421, 90.1812



35.4926, 68.1275, 11.2796

# 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.



3.3999, 17.3421, 9.6934



37.4368, 17.3421, 90.1812



10.6483, 17.3421, 0.0000

# Square

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



37.4368, 17.3421, 90.1812



34.0529, 17.3421, 0.0000



5.3102, 17.3421, 0.5351



6.3174, 17.3421, 107.6083



# Rectangle

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



37.4368, 17.3421, 90.1812



46.3774, 17.3421, 11.0895



5.3102, 17.3421, 0.5351



3.3554, 17.3421, 29.6699

# Sweetspot

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



37.4377, 17.3427, 90.1816



68.7231, 57.1244, 102.0118



18.6665, 10.2235, 89.7968



14.0811, 11.2472, 21.6787



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.



37.4377, 17.3427, 90.1816



39.8588, 18.4628, 96.0706



47.5749, 23.5021, 48.4849



17.5516, 17.2970, 21.7989



20.3572, 9.4372, 48.7222



1.9810, 0.9233, 4.5170



# Inverse Universe

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



39.5542, 20.2938, 6.2483



42.1294, 21.6158, 6.6137



34.4374, 67.4830, 15.7691



17.4197, 17.2952, 18.7997



21.4133, 10.9810, 3.6187



2.0234, 1.0331, 0.5467



# Previews

## White Background



This preview shows how the XYZ color 37.4368, 17.3421, 90.1812 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

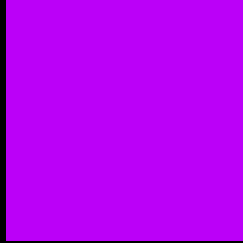
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.4368, 17.3421, 90.1812 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

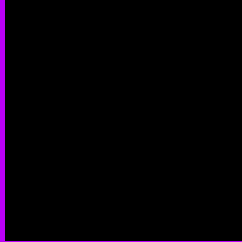
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 37.4368, 17.3421, 90.1812**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.4368, 17.3421, 90.1812.



This preview shows how white text looks on a background with the XYZ color 37.4368, 17.3421,



# 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

37.4368, 17.3421, 90.1812

### Protanopia

21.3377, 17.9833, 83.2354

### Deuteranopia

18.1016, 17.9870, 62.1923



## Tritanopia

22.2904, 17.5482, 15.3090

# Trichromacy



## Original Color

37.4368, 17.3421, 90.1812



## Protanomaly

20.7283, 12.2745, 85.2811



## Deuteranomaly

18.2876, 11.7255, 71.1114



## Tritanomaly

24.9570, 14.7298, 32.9802

# Monochromacy



## Original Color

37.4368, 17.3421, 90.1812



## Achromatopsia

8.4267, 8.8656, 9.6546



## Achromatomaly

14.1923, 8.6248, 27.3023

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.4368, 17.3421, 90.1812 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(187, 0, 248)` looks like.

```
.text, #text, p{  
    color:rgb(187, 0, 248)  
}
```

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(187, 0, 248) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 0, 248) }
```

## Border

The CSS property to change the border of an element to XYZ 37.4368, 17.3421, 90.1812 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(187, 0, 248) }
```



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

```
.border{ border-color:rgb(187, 0, 248) }
```

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

Here you see how a box with a 4 pixel rgb(187, 0, 248) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 0, 248); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 0, 248);  
box-shadow:4px 4px 4px 4px rgb(187, 0,  
248) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.4368, 17.3421, 90.1812 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 0, 248) }
```

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

```
.background{ background-color: rgb(187, 0,  
248) }
```

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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