

# Converting Colors

XYZ(37.1843, 18.1708, 46.8509)

Have a look what the booklet for  
XYZ(37.1843, 18.1708, 46.8509)  
contains.

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# Color

**XYZ(37.2670, 18.2124,  
46.8986)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D900B8
RGB	217, 0, 184
RGB Percent	85%, 0%, 72%
CMY	0.1490, 0.9999, 0.2784
CMYK	0.00, 1.00, 0.15, 0.15
HSL	309°, 100%, 43%
HSV	309°, 100%, 85%
XYZ	37.2670, 18.2124, 46.8986
YIQ	85.8590, 70.2680, 103.2280

# Conversions

## Conversions Part 2

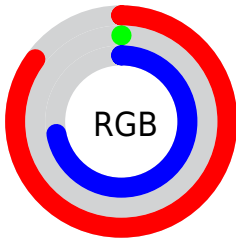
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	217, 0, 184
Decimal	14221496
CIE <sub>Lab</sub>	49.75, 82.54, -37.67
CIE <sub>LCh</sub>	50, 90.733, 335.466
Yxy	18.2124, 0.3640, 0.1779
Android (android.graphics.Color)	4292411576 (0xFFD900B8)
YUV	85.8590, 48.3835, 115.0107
Hunter-Lab	42.6760, 81.1930, -35.2833

# Details

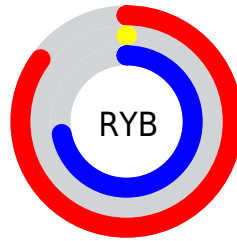
The XYZ color **37.2670, 18.2124, 46.8986** is a dark color, and the websafe version is hex **FF33CC**. The color can be described as middle washed rose. A complement of this color would be **25.0885, 49.7363, 9.7193**, and the grayscale version is **8.7104, 9.1641, 9.9797**.

A 20% lighter version of the original color is **60.9709, 35.5567, 86.0877**, and **17.9339, 8.7798, 21.8685** is the 20% darker color. If you saturate the color by 10%, you get **37.2667, 18.2123, 46.8957**, and if you desaturate by 10%, it is **37.8993, 18.9164, 48.8366**.

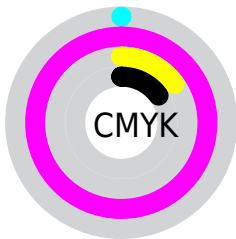
# Distribution



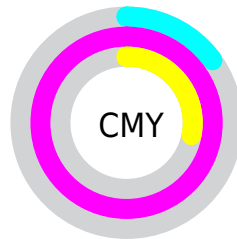
- Red (85%)
- Green (0%)
- Blue (72%)



- Red (85%)
- Yellow (0%)
- Blue (72%)



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




- Cyan (15%)
- Magenta (100%)
- Yellow (28%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.2670, 18.2124, 46.8986 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 37.2670, 18.2124, 46.8986 by changing the saturation by 10% instead.




 37.2670, 18.2124,  
46.8986


 37.2670, 18.2124,  
46.8986

325.8005,  
242.0655, 390.7917

 25.5889, 11.1026,  
32.6017


 70.2944, 40.3989,  
86.9106


 16.6474, 6.1359,  
21.5529


 92.3744, 56.2444,  
113.4629


 10.0772, 2.9279,  
13.3336


 118.6525, 75.7706,  
144.9374

 5.5128, 1.0942,  
7.5252

 149.4939, 99.3618,  
181.7526

 2.5890, 0.0000,  
3.7093

 185.2641,  
127.4026, 224.3271

 0.9403, 0.0000,  
1.4673

 226.3283,

 0.0000, 0.0000,

160.2772, 273.0794

0.1934

273.0520,  
198.3700, 328.4281

■ 0.0000, 0.0000,  
0.0000

■ 37.2670, 18.2124,  
46.8986

■ 37.2670, 18.2124,  
46.8986

■ 37.2667, 18.2123,  
46.8957

■ 37.8993, 18.9164,  
48.8366

■ 38.8555, 20.2556,  
50.9225

■ 40.2403, 22.4388,  
53.1916

■ 42.1118, 25.5824,  
55.6636

■ 44.5191, 29.7843,  
58.3551

■ 47.5053, 35.1305,  
61.2806

■ 51.1088, 41.6980,  
64.4533

■ 55.3650, 49.5573,  
67.8852

■ 60.3063, 58.7734,  
71.5874

# Harmonies

## Analogous

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



28.8595, 18.2124, 89.3799



37.2670, 18.2124, 46.8986



39.6943, 18.2124, 15.6315

# Triad

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



37.2670, 18.2124, 46.8986



15.7744, 18.2124, 0.0000



6.9935, 18.2124, 62.2720

# Complementary

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



37.2670, 18.2124, 46.8986



25.0885, 49.7363, 9.7193

# 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.



5.4746, 18.2124, 24.7206



37.2670, 18.2124, 46.8986



9.3449, 18.2124, 0.8307

# Square

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



37.2670, 18.2124, 46.8986



25.1719, 18.2124, 0.2264



6.1632, 18.2124, 5.9023



11.2841, 18.2124, 102.3364



# Rectangle

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



37.2670, 18.2124, 46.8986



37.0766, 18.2124, 5.5946



6.1632, 18.2124, 5.9023



6.2209, 18.2124, 48.1569

# Sweetspot

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



37.2677, 18.2133, 46.8989



73.4928, 59.7932, 92.7505



13.1388, 5.3271, 65.9819



15.2360, 11.8936, 19.4274



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.



37.2677, 18.2133, 46.8989



53.6624, 26.2290, 67.3455



29.9195, 15.2741, 8.2040



13.5248, 13.2390, 16.0249



22.5907, 11.0373, 28.5541



1.4871, 0.7245, 1.9738



# Inverse Universe

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



37.2677, 18.2133, 46.8989



53.6624, 26.2290, 67.3455



29.6259, 51.5513, 33.6130



13.5248, 13.2390, 16.0249



22.5907, 11.0373, 28.5541



1.4871, 0.7245, 1.9738



# Previews

## White Background



This preview shows how the XYZ color 37.2670, 18.2124, 46.8986 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

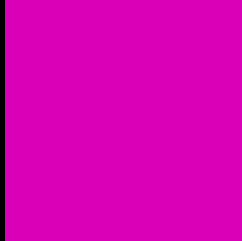
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.2670, 18.2124, 46.8986 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

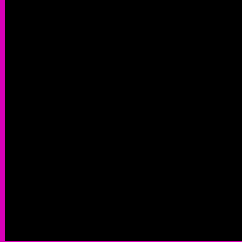
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 37.2670, 18.2124, 46.8986**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.2670, 18.2124, 46.8986.



This preview shows how white text looks on a background with the XYZ color 37.2670, 18.2124,



# 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

37.2670, 18.2124, 46.8986

### Protanopia

22.8799, 19.1446, 89.6782

### Deuteranopia

19.3952, 18.9201, 42.1649



## Tritanopia

29.6693, 18.5804, 9.0438

# Trichromacy



## Original Color

37.2670, 18.2124, 46.8986



## Protanomaly

18.9925, 11.8875, 71.1055



## Deuteranomaly

21.8479, 14.1828, 43.1810



## Tritanomaly

30.9933, 17.0638, 18.1831

# Monochromacy



## Original Color

37.2670, 18.2124, 46.8986



## Achromatopsia

8.8453, 9.3059, 10.1341



## Achromatomaly

14.7106, 9.2058, 19.4139

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.2670, 18.2124, 46.8986 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(217, 0, 184)` looks like.

```
.text, #text, p{  
    color:rgb(217, 0, 184)  
}
```

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(217, 0, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(217, 0, 184) }
```

## Border

The CSS property to change the border of an element to XYZ 37.2670, 18.2124, 46.8986 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(217, 0, 184) }
```



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

```
.border{ border-color:rgb(217, 0, 184) }
```

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

Here you see how a box with a 4 pixel rgb(217, 0, 184) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(217, 0, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(217, 0, 184);  
box-shadow:4px 4px 4px 4px rgb(217, 0,  
184) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.2670, 18.2124, 46.8986 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(217, 0, 184) }
```

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

```
.background{ background-color: rgb(217, 0,  
184) }
```

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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