

# Converting Colors

XYZ(48.3170, 24.3710, 38.3336)

Have a look what the booklet for  
XYZ(48.3170, 24.3710, 38.3336)  
contains.

<b>XYZ(48.2938, 24.3548, 38.2320)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(48.2938, 24.3548,  
38.2320)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF0FA6
RGB	255, 15, 166
RGB Percent	100%, 6%, 65%
CMY	0.0000, 0.9410, 0.3490
CMYK	0.00, 0.94, 0.35, 0.00
HSL	322°, 100%, 53%
HSV	322°, 94%, 100%
XYZ	48.2938, 24.3548, 38.2320
YIQ	103.9740, 94.5690, 97.8410

# Conversions

## Conversions Part 2

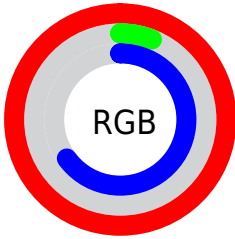
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 15, 166
Decimal	16715686
CIE <sub>Lab</sub>	56.44, 86.74, -16.20
CIE <sub>LCh</sub>	56, 88.236, 349.421
Yxy	24.3548, 0.4355, 0.2196
Android (android.graphics.Color)	4294905766 (0xFFFF0FA6)
YUV	103.9740, 30.5788, 132.4498
Hunter-Lab	49.3506, 88.3141, -11.3867

# Details

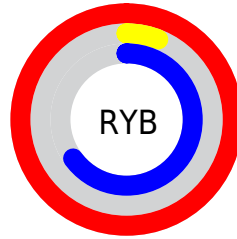
The XYZ color **48.2938, 24.3548, 38.2320** is a dark color, and the websafe version is hex **FF0099**. The color can be described as middle saturated rose. A complement of this color would be **38.4587, 72.6223, 25.0993**, and the grayscale version is **13.0610, 13.7412, 14.9642**.

A 20% lighter version of the original color is **59.2415, 36.3811, 72.3065**, and **24.7755, 12.4214, 17.0113** is the 20% darker color. If you saturate the color by 10%, you get **47.6220, 23.8128, 35.5370**, and if you desaturate by 10%, it is **49.8003, 25.9278, 43.1737**.

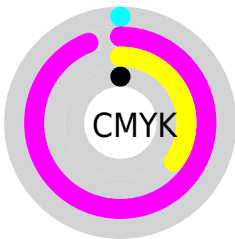
# Distribution



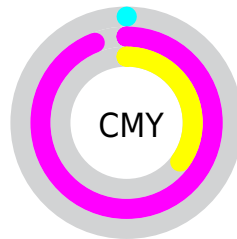
- Red (100%)
- Green (6%)
- Blue (65%)



- Red (100%)
- Yellow (6%)
- Blue (65%)



- Cyan (0%)
- Magenta (94%)
- Yellow (35%)
- Black (0%)




- Cyan (0%)
- Magenta (94%)
- Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.2938, 24.3548, 38.2320 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 48.2938, 24.3548, 38.2320 by changing the saturation by 10% instead.




 48.2938, 24.3548,  
38.2320


 48.2938, 24.3548,  
38.2320


370.5187,  
274.6094, 353.9421

 34.2718, 15.5970,  
25.8596


 86.8487, 50.6086,  
73.6710


 23.2664, 9.2395,  
16.4938


 112.1124, 68.8733,  
97.5746


 14.9121, 4.8977,  
9.7161


 141.8540, 91.0759,  
126.1590

 8.8436, 2.1874,  
5.1080

 176.4389,  
117.6007, 159.8428

 4.6956, 0.7131,  
2.2509

 216.2325,  
148.8320, 199.0444

 2.1027, 0.0000,  
0.7035

261.6001,

 0.6907, 0.0000,

185.1543, 244.1825

0.0000

312.9071,  
226.9519, 295.6756

■ 0.0000, 0.0000,  
0.0000

■ 48.2938, 24.3548,  
38.2320

■ 48.2938, 24.3548,  
38.2320

■ 47.6220, 23.8128,  
35.5370

■ 49.8003, 25.9278,  
43.1737

■ 51.9390, 28.6610,  
48.6473

■ 54.8076, 32.7477,  
54.6919

■ 58.4856, 38.3448,  
61.3402

■ 63.0415, 45.5876,  
68.6209

■ 68.5364, 54.5963,  
76.5602

■ 75.0256, 65.4796,  
85.1823

■ 82.5601, 78.3375,  
94.5097

■ 91.1870, 93.2630,  
104.5635

# Harmonies

## Analogous

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



41.4811, 24.3548, 82.4510



48.2938, 24.3548, 38.2320



47.0264, 24.3548, 11.8765

# Triad

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



48.2938, 24.3548, 38.2320



17.2171, 24.3548, 0.9858



12.5859, 24.3548, 96.2049

# Complementary

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



48.2938, 24.3548, 38.2320



38.4587, 72.6223, 25.0993

# 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.



9.1352, 24.3548, 49.9399



48.2938, 24.3548, 38.2320



11.2138, 24.3548, 4.1863

# Square

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



48.2938, 24.3548, 38.2320



26.9413, 24.3548, 0.7394



8.7203, 24.3548, 17.4808



19.7295, 24.3548, 129.0123



# Rectangle

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



48.2938, 24.3548, 38.2320



41.8581, 24.3548, 4.4454



8.7203, 24.3548, 17.4808



11.0574, 24.3548, 80.6126

# Sweetspot

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



48.2944, 24.3561, 38.2324



72.3731, 61.0053, 81.7368



23.8183, 10.4482, 95.3691



14.9015, 12.0715, 16.7055



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.



48.2944, 24.3561, 38.2324



47.6220, 23.8128, 35.5370



41.9254, 21.8085, 4.6933



18.4901, 18.1794, 21.1983



24.9581, 12.4725, 18.9617



2.4829, 1.2355, 2.1245



# Inverse Universe

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



48.2944, 24.3561, 38.2324



47.6220, 23.8128, 35.5370



49.2778, 76.9500, 82.0720



18.4901, 18.1794, 21.1983



24.9581, 12.4725, 18.9617



2.4829, 1.2355, 2.1245



# Previews

## White Background



This preview shows how the XYZ color 48.2938, 24.3548, 38.2320 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

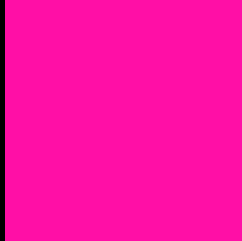
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.2938, 24.3548, 38.2320 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 48.2938, 24.3548, 38.2320**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.2938, 24.3548, 38.2320.



This preview shows how white text looks on a background with the XYZ color 48.2938, 24.3548,



# 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

48.2938, 24.3548, 38.2320

### Protanopia

27.7443, 25.0048, 82.7210

### Deuteranopia

25.2884, 24.8043, 34.4652



## Tritanopia

42.1483, 24.5837, 8.1539

# Trichromacy



## Original Color

48.2938, 24.3548, 38.2320



## Protanomaly

27.9917, 18.4995, 63.7235



## Deuteranomaly

29.2056, 19.7606, 35.0758



## Tritanomaly

43.3393, 23.6226, 15.3721

# Monochromacy



## Original Color

48.2938, 24.3548, 38.2320



## Achromatopsia

13.1579, 13.8432, 15.0752



## Achromatomaly

20.4462, 13.5380, 21.6141

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.2938, 24.3548, 38.2320 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(255, 15, 166)` looks like.

```
.text, #text, p{  
    color:rgb(255, 15, 166)  
}
```

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(255, 15, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 15, 166) }
```

## Border

The CSS property to change the border of an element to XYZ 48.2938, 24.3548, 38.2320 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(255, 15, 166) }
```



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

```
.border{ border-color:rgb(255, 15, 166) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 15, 166)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 15, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 15, 166);  
box-shadow:4px 4px 4px 4px rgb(255, 15,  
166) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.2938, 24.3548, 38.2320 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 15, 166) }
```

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

```
.background{ background-color: rgb(255, 15,  
166) }
```

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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