

# Converting Colors

XYZ(60.5761, 30.7455, 42.7581)

Have a look what the booklet for  
XYZ(60.5761, 30.7455, 42.7581)  
contains.

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# Color

**XYZ(49.1481, 24.8523,  
42.2510)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF15AE
RGB	255, 21, 174
RGB Percent	100%, 8%, 68%
CMY	0.0000, 0.9175, 0.3176
CMYK	0.00, 0.92, 0.32, 0.00
HSL	321°, 100%, 54%
HSV	321°, 92%, 100%
XYZ	49.1481, 24.8523, 42.2510
YIQ	108.4080, 90.3510, 97.1910

# Conversions

## Conversions Part 2

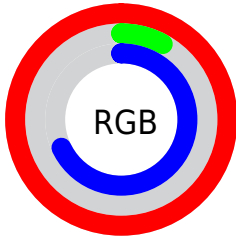
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 21, 174
Decimal	16717230
CIE <sub>Lab</sub>	56.93, 86.96, -20.13
CIE <sub>LCh</sub>	57, 89.263, 346.964
Yxy	24.8523, 0.4228, 0.2138
Android (android.graphics.Color)	4294907310 (0xFFFF15AE)
YUV	108.4080, 32.3369, 128.5612
Hunter-Lab	49.8521, 88.7382, -15.3534

# Details

The XYZ color **49.1481, 24.8523, 42.2510** is a dark color, and the websafe version is hex **FF0099**. The color can be described as middle washed rose. A complement of this color would be **38.4701, 72.6398, 24.5730**, and the grayscale version is **14.2681, 15.0112, 16.3471**.

A 20% lighter version of the original color is **60.6770, 37.2812, 78.8609**, and **25.4435, 12.7179, 19.2029** is the 20% darker color. If you saturate the color by 10%, you get **48.1890, 24.0396, 38.5227**, and if you desaturate by 10%, it is **50.7675, 26.6679, 47.1780**.

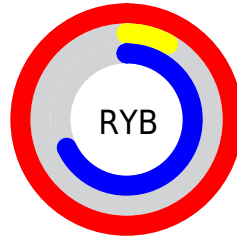
# Distribution



Red (100%)

Green (8%)

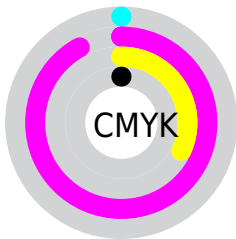
Blue (68%)



Red (100%)

Yellow (8%)

Blue (68%)

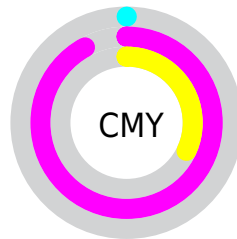


Cyan (0%)

Magenta (92%)

Yellow (32%)

Black (0%)



Cyan (0%)

Magenta (92%)


Yellow (32%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.1481, 24.8523, 42.2510 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 49.1481, 24.8523, 42.2510 by changing the saturation by 10% instead.





 49.1481, 24.8523,  
42.2510


 49.1481, 24.8523,  
42.2510


373.8324,  
277.1016, 371.3527


 34.9520, 15.9670,  
28.9708


 88.1108, 51.4175,  
79.8536


 23.7922, 9.5008,  
18.8134


 113.6081, 69.8663,  
105.0130


 15.3035, 5.0693,  
11.3601


 143.6031, 92.2716,  
134.9693

 9.1203, 2.2880,  
6.1924

 178.4613,  
119.0180, 170.1411

 4.8775, 0.7673,  
2.8917

 218.5479,  
150.4898, 210.9467

 2.2096, 0.0000,  
1.0396

264.2284,

 0.7478, 0.0000,

187.0714, 257.8048

0.0000

315.8681,  
229.1472, 311.1340

■ 0.0000, 0.0000,  
0.0000

■ 49.1481, 24.8523,  
42.2510

■ 49.1481, 24.8523,  
42.2510

■ 48.1890, 24.0396,  
38.5227

■ 50.7675, 26.6679,  
47.1780

■ 53.0362, 29.6900,  
52.6055

■ 56.0465, 34.1017,  
58.5696

■ 59.8749, 40.0539,  
65.1007

■ 64.5877, 47.6778,  
72.2255

70.2440, 57.0905,  
79.9686

76.8980, 68.3985,  
88.3524

84.5994, 81.6998,  
97.3982

93.3946, 97.0858,  
107.1257

# Harmonies

## Analogous

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



41.5930, 24.8523, 88.5190



49.1481, 24.8523, 42.2510



48.5685, 24.8523, 13.4877

# Triad

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



49.1481, 24.8523, 42.2510



18.2232, 24.8523, 0.8933



12.3782, 24.8523, 94.8184

# Complementary

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



49.1481, 24.8523, 42.2510



38.4701, 72.6398, 24.5730

# 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.



9.1289, 24.8523, 47.5976



49.1481, 24.8523, 42.2510



11.7549, 24.8523, 3.7077

# Square

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



49.1481, 24.8523, 42.2510



28.4570, 24.8523, 0.7826



8.9408, 24.8523, 16.0316



19.3671, 24.8523, 130.9824



# Rectangle

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



49.1481, 24.8523, 42.2510



43.6228, 24.8523, 5.0944



8.9408, 24.8523, 16.0316



10.9154, 24.8523, 78.6096

# Sweetspot

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



49.1489, 24.8537, 42.2514



72.6199, 61.1040, 83.0367



23.4671, 10.4117, 95.3805



14.9611, 12.0953, 17.0193



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.



49.1489, 24.8537, 42.2514



48.1890, 24.0396, 38.5227



42.3252, 22.1242, 6.3188



18.5099, 18.1873, 21.3020



25.2529, 12.5905, 20.5140



2.5103, 1.2465, 2.2688



# Inverse Universe

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



49.1489, 24.8537, 42.2514



48.1890, 24.0396, 38.5227



48.4655, 76.6380, 77.2081



18.5099, 18.1873, 21.3020



25.2529, 12.5905, 20.5140



2.5103, 1.2465, 2.2688



# Previews

## White Background



This preview shows how the XYZ color 49.1481, 24.8523, 42.2510 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

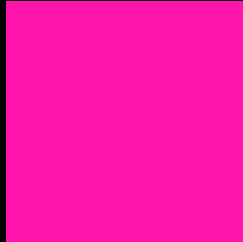
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.1481, 24.8523, 42.2510 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 49.1481, 24.8523, 42.2510**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.1481, 24.8523, 42.2510.



This preview shows how white text looks on a background with the XYZ color 49.1481, 24.8523,



# 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

49.1481, 24.8523, 42.2510

### Protanopia

28.7269, 25.5430, 90.6050

### Deuteranopia

25.5279, 25.0621, 37.6744



## Tritanopia

42.2007, 24.9573, 9.0716

# Trichromacy



## Original Color

49.1481, 24.8523, 42.2510



## Protanomaly

28.6867, 19.1070, 69.8862



## Deuteranomaly

29.8533, 20.4056, 38.4416



## Tritanomaly

43.8712, 24.1812, 17.1070

# Monochromacy



## Original Color

49.1481, 24.8523, 42.2510



## Achromatopsia

14.2537, 14.9960, 16.3306



## Achromatomaly

21.4472, 14.4119, 23.4812

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.1481, 24.8523, 42.2510 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, 21, 174)` looks like.

```
.text, #text, p{  
    color:rgb(255, 21, 174)  
}
```

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, 21, 174) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 21, 174) }
```

## Border

The CSS property to change the border of an element to XYZ 49.1481, 24.8523, 42.2510 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, 21, 174) }
```



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

```
.border{ border-color:rgb(255, 21, 174) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 21, 174)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 21, 174); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 21, 174);  
box-shadow:4px 4px 4px 4px rgb(255, 21,  
174) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.1481, 24.8523, 42.2510 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 21, 174) }
```

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

```
.background{ background-color: rgb(255, 21,  
174) }
```

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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