

# Converting Colors

XYZ(50.0055, 24.2422, 71.7633)

Have a look what the booklet for  
XYZ(50.0055, 24.2422, 71.7633)  
contains.

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# Color

**XYZ(49.9372, 24.2050,  
71.8521)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F200DF
RGB	242, 0, 223
RGB Percent	95%, 0%, 87%
CMY	0.0510, 0.9998, 0.1255
CMYK	0.00, 1.00, 0.08, 0.05
HSL	305°, 100%, 47%
HSV	305°, 100%, 95%
XYZ	49.9372, 24.2050, 71.8521
YIQ	97.7800, 72.6490, 120.6570

# Conversions

## Conversions Part 2

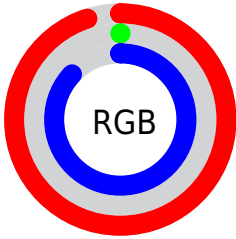
Format	Color
R <sub>Y</sub> B	242, 0, 223
Decimal	15859935
CIE Lab	56.29, 91.85, -49.48
CIE LCh	56, 104.333, 331.689
Yxy	24.2050, 0.3420, 0.1658
Android (android.graphics.Color)	4294050015 (0xFFFF200DF)
YUV	97.7800, 61.7335, 126.4809
Hunter-Lab	49.1986, 95.0823, -52.1511

# Details

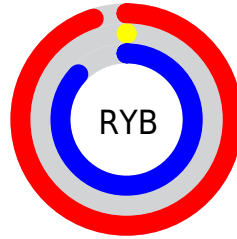
The XYZ color **49.9372, 24.2050, 71.8521** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light saturated magenta. A complement of this color would be **31.8710, 63.5523, 11.2053**, and the grayscale version is **11.4011, 11.9948, 13.0624**.

A 20% lighter version of the original color is **63.9437, 37.7874, 98.5312**, and **26.0311, 12.6138, 37.6219** is the 20% darker color. If you saturate the color by 10%, you get **49.9371, 24.2049, 71.8497**, and if you desaturate by 10%, it is **50.5271, 24.9718, 73.3202**.

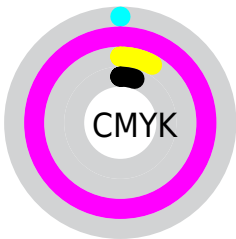
# Distribution



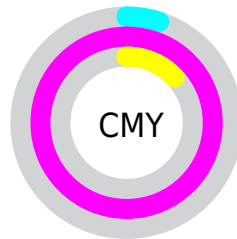
- Red (95%)
- Green (0%)
- Blue (87%)



- Red (95%)
- Yellow (0%)
- Blue (87%)



- Cyan (0%)
- Magenta (100%)
- Yellow (8%)
- Black (5%)




- Cyan (5%)
- Magenta (100%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.9372, 24.2050, 71.8521 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 49.9372, 24.2050, 71.8521 by changing the saturation by 10% instead.




 49.9372, 24.2050,  
71.8521


 49.9372, 24.2050,  
71.8521

376.8764,  
273.8553, 485.9903


 35.5811, 15.4858,  
52.5518


 89.2742, 50.3645,  
123.5520

 24.2794, 9.1610,  
37.0598


 114.9858, 68.5736,  
156.7886

 15.6669, 4.8464,  
24.9576


 145.2133, 90.7147,  
195.5078

 9.3781, 2.1574,  
15.8268

 180.3220,  
117.1723, 240.1280

 5.0477, 0.6966,  
9.2486

 220.6773,  
148.3308, 291.0679

 2.3103, 0.0000,  
4.8047

266.6446,

 0.7999, 0.0000,

184.5745, 348.7458

2.0764

318.5891,  
226.2879, 413.5805

■ 0.0000, 0.0000,  
0.6017

■ 0.0000, 0.0000,  
0.0000

■ 49.9372, 24.2050,  
71.8521

■ 49.9372, 24.2050,  
71.8521

■ 49.9371, 24.2049,  
71.8497

■ 50.5271, 24.9718,  
73.3202

■ 51.5313, 26.5632,  
74.9405

■ 53.0790, 29.2369,  
76.7563

■ 55.2466, 33.1458,  
78.7930

■ 58.0985, 38.4187,  
81.0722

■ 61.6909, 45.1679,  
83.6126

■ 66.0743, 53.4943,  
86.4311

■ 71.2945, 63.4897,  
89.5431

■ 77.3941, 75.2392,  
92.9628

# Harmonies

## Analogous

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



37.4056, 24.2050, 132.3054



49.9372, 24.2050, 71.8521



54.6981, 24.2050, 24.4525

# Triad

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



49.9372, 24.2050, 71.8521



22.3318, 24.2050, 0.0000



8.4127, 24.2050, 78.6484

# Complementary

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



49.9372, 24.2050, 71.8521



31.8710, 63.5523, 11.2053

# 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.



6.7755, 24.2050, 28.3540



49.9372, 24.2050, 71.8521



12.8768, 24.2050, 0.5787

# Square

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



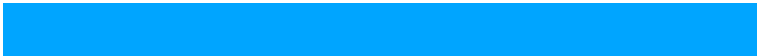
49.9372, 24.2050, 71.8521



35.7982, 24.2050, 0.3638



8.0692, 24.2050, 5.7790



13.6947, 24.2050, 138.1063



# Rectangle

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



49.9372, 24.2050, 71.8521



51.8525, 24.2050, 8.6825



8.0692, 24.2050, 5.7790



7.5210, 24.2050, 59.1601

# Sweetspot

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



49.9381, 24.2062, 71.8526



74.3578, 60.1392, 97.3053



16.2444, 6.5236, 84.4082



15.4458, 11.9775, 20.5320



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.



49.9381, 24.2062, 71.8526



56.2318, 27.2567, 80.8756



39.1632, 19.8962, 15.1123



16.3976, 16.0087, 19.6498



26.8500, 13.0124, 38.7222



2.2495, 1.0888, 3.3045



# Inverse Universe

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



49.9381, 24.2062, 71.8526



56.2318, 27.2567, 80.8756



36.2795, 65.3157, 34.4202



16.3976, 16.0087, 19.6498



26.8500, 13.0124, 38.7222



2.2495, 1.0888, 3.3045



# Previews

## White Background



This preview shows how the XYZ color 49.9372, 24.2050, 71.8521 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

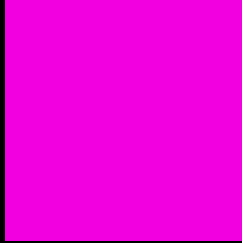
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.9372, 24.2050, 71.8521 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

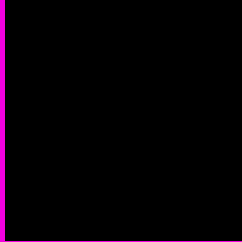
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 49.9372, 24.2050, 71.8521**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.9372, 24.2050, 71.8521.



This preview shows how white text looks on a background with the XYZ color 49.9372, 24.2050,



# 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

49.9372, 24.2050, 71.8521

### Protanopia

28.7555, 24.9877, 97.9153

### Deuteranopia

25.4584, 24.8644, 63.7791



## Tritanopia

37.7786, 24.4278, 13.0798

# Trichromacy



## Original Color

49.9372, 24.2050, 71.8521



## Protanomaly

28.8637, 17.7172, 86.6925



## Deuteranomaly

28.3083, 18.2507, 65.6491



## Tritanomaly

40.0795, 22.2142, 26.9863

# Monochromacy



## Original Color

49.9372, 24.2050, 71.8521



## Achromatopsia

11.6093, 12.2139, 13.3009



## Achromatomaly

19.2582, 11.9124, 27.2709

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.9372, 24.2050, 71.8521 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(242, 0, 223)` looks like.

```
.text, #text, p{  
    color:rgb(242, 0, 223)  
}
```

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(242, 0, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 0, 223) }
```

## Border

The CSS property to change the border of an element to XYZ 49.9372, 24.2050, 71.8521 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(242, 0, 223) }
```



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

```
.border{ border-color:rgb(242, 0, 223) }
```

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

Here you see how a box with a 4 pixel rgb(242, 0, 223) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 0, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 0, 223);  
box-shadow:4px 4px 4px 4px rgb(242, 0,  
223) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.9372, 24.2050, 71.8521 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 0, 223) }
```

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

```
.background{ background-color: rgb(242, 0,  
223) }
```

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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