

# Converting Colors

XYZ(45.4323, 22.9331, 23.9579)

Have a look what the booklet for  
XYZ(45.4323, 22.9331, 23.9579)  
contains.

<b>XYZ(45.4049, 22.9259, 23.8618)</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(45.4049, 22.9259,  
23.8618)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF0084
RGB	255, 0, 132
RGB Percent	100%, 0%, 52%
CMY	0.0000, 0.9998, 0.4824
CMYK	0.00, 1.00, 0.48, 0.00
HSL	329°, 100%, 50%
HSV	329°, 100%, 100%
XYZ	45.4049, 22.9259, 23.8618
YIQ	91.2930, 109.6080, 95.1120

# Conversions

## Conversions Part 2

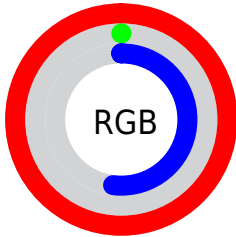
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	255, 0, 132
Decimal	16711812
CIE <sub>Lab</sub>	55.00, 84.85, 1.83
CIE <sub>LCh</sub>	55, 84.866, 1.233
Yxy	22.9259, 0.4925, 0.2487
Android (android.graphics.Color)	4294901892 (0xFFFF0084)
YUV	91.2930, 20.0686, 143.5710
Hunter-Lab	47.8810, 85.4774, 3.9692

# Details

The XYZ color **45.4049, 22.9259, 23.8618** is a dark color, and the websafe version is hex **FF3399**. The color can be described as dark saturated rose. A complement of this color would be **39.3397, 72.9519, 30.7666**, and the grayscale version is **9.9566, 10.4751, 11.4074**.

A 20% lighter version of the original color is **54.5541, 33.8771, 49.5626**, and **23.0472, 11.7009, 9.2274** is the 20% darker color. If you saturate the color by 10%, you get **45.4028, 22.9251, 23.8513**, and if you desaturate by 10%, it is **46.6570, 24.0024, 28.6810**.

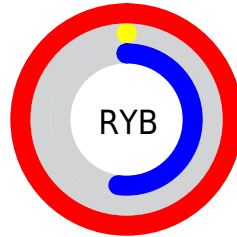
# Distribution



Red (100%)

Green (0%)

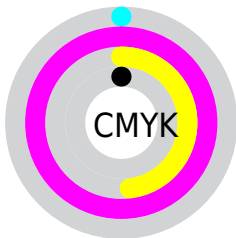
Blue (52%)



Red (100%)

Yellow (0%)

Blue (52%)

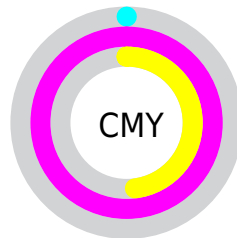


Cyan (0%)

Magenta (100%)

Yellow (48%)

Black (0%)



Cyan (0%)

Magenta (100%)


Yellow (48%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.4049, 22.9259, 23.8618 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 45.4049, 22.9259, 23.8618 by changing the saturation by 10% instead.




 45.4049, 22.9259,  
23.8618


 45.4049, 22.9259,  
23.8618


359.1671,  
267.3442, 285.3851


 31.9791, 14.5388,  
15.0199


 82.5610, 48.2716,  
50.7456


 21.5010, 8.4964,  
8.6866


 107.0220, 65.9990,  
69.6245


 13.6053, 4.4142,  
4.4433


 135.8922, 87.6087,  
92.6862

 7.9265, 1.9078,  
1.8716

 169.5368,  
113.4850, 120.3492

 4.0994, 0.5531,  
0.4745

 208.3212,  
144.0123, 153.0321

 1.7585, 0.0000,  
0.0000

252.6109,

 0.4925, 0.0000,

179.5750, 191.1533

0.0000

302.7710,  
220.5575, 235.1315

■ 0.0000, 0.0000,  
0.0000

■ 45.4049, 22.9259,  
23.8618

■ 45.4049, 22.9259,  
23.8618

■ 45.4028, 22.9251,  
23.8513

■ 46.6570, 24.0024,  
28.6810

■ 48.4787, 26.0539,  
34.1960

■ 51.0161, 29.3677,  
40.4710

■ 54.3596, 34.1197,  
47.5509

■ 58.5852, 40.4574,  
55.4750

■ 63.7597, 48.5099,  
64.2794

■ 69.9430, 58.3929,  
73.9971

■ 77.1899, 70.2118,  
84.6591

■ 85.5512, 84.0643,  
96.2947

# Harmonies

## Analogous

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



41.8582, 22.9259, 59.2130



45.4049, 22.9259, 23.8618



41.2583, 22.9259, 6.5593

# Triad

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



45.4049, 22.9259, 23.8618



13.6771, 22.9259, 1.6851



14.1784, 22.9259, 103.7380

# Complementary

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



45.4049, 22.9259, 23.8618



39.3397, 72.9519, 30.7666

# 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.



9.6742, 22.9259, 62.7219



45.4049, 22.9259, 23.8618



9.4490, 22.9259, 7.3856

# Square

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



45.4049, 22.9259, 23.8618



21.4026, 22.9259, 0.6973



8.2264, 22.9259, 26.0963



22.1828, 22.9259, 121.1638



# Rectangle

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



45.4049, 22.9259, 23.8618



35.2272, 22.9259, 2.4207



8.2264, 22.9259, 26.0963



12.2959, 22.9259, 91.2711

# Sweetspot

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



45.4055, 22.9273, 23.8621



69.9269, 58.3669, 73.9726



25.6629, 11.1456, 95.4064



14.3824, 11.5522, 14.9322



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.



45.4055, 22.9273, 23.8621



45.4029, 22.9251, 23.8513



41.2875, 21.2801, 2.1772



18.4019, 18.1441, 20.7337



23.7999, 12.0092, 12.8625



2.3725, 1.1914, 1.5432



# Inverse Universe

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



45.4055, 22.9273, 23.8621



45.4029, 22.9251, 23.8513



52.4725, 78.2050, 99.9228



18.4019, 18.1441, 20.7337



23.7999, 12.0092, 12.8625



2.3725, 1.1914, 1.5432



# Previews

## White Background



This preview shows how the XYZ color 45.4049, 22.9259, 23.8618 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

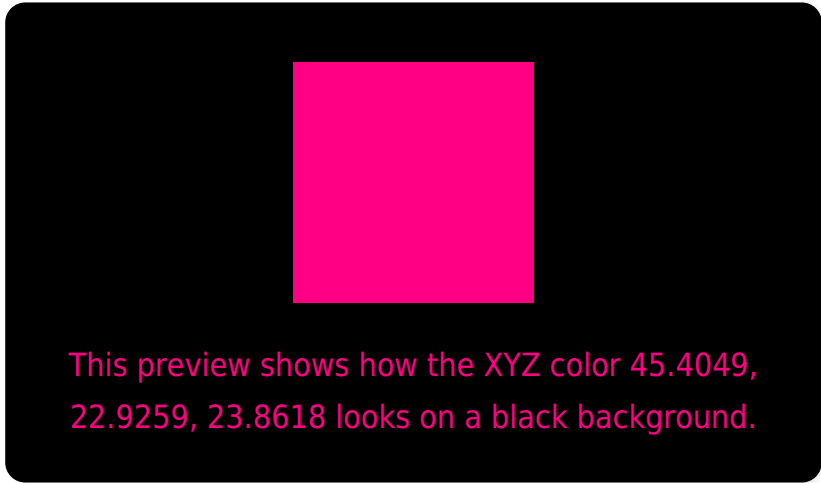
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



## 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 45.4049, 22.9259, 23.8618**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.4049, 22.9259, 23.8618.



This preview shows how white text looks on a background with the XYZ color 45.4049, 22.9259,

23.8618.

# 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

45.4049, 22.9259, 23.8618

### Protanopia

24.3500, 23.5277, 51.9731

### Deuteranopia

23.7480, 23.3028, 21.3354



## Tritanopia

41.6543, 23.2223, 5.6551

# Trichromacy



## Original Color

45.4049, 22.9259, 23.8618



## Protanomaly

25.7717, 17.0504, 39.4689



## Deuteranomaly

27.3831, 18.0569, 21.4441



## Tritanomaly

42.2117, 22.3924, 10.0800

# Monochromacy



## Original Color

45.4049, 22.9259, 23.8618



## Achromatopsia

9.9438, 10.4616, 11.3927



## Achromatomaly

16.8771, 10.6460, 14.8010

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.4049, 22.9259, 23.8618 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, 0, 132)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 132)  
}
```

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, 0, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 132) }
```

## Border

The CSS property to change the border of an element to XYZ 45.4049, 22.9259, 23.8618 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, 0, 132) }
```



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

```
.border{ border-color:rgb(255, 0, 132) }
```

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

Here you see how a box with a 4 pixel rgb(255, 0, 132) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 132);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
132) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.4049, 22.9259, 23.8618 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 0, 132) }
```

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

```
.background{ background-color: rgb(255, 0,  
132) }
```

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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