

# Converting Colors

XYZ(45.9489, 23.1436, 26.7270)

Have a look what the booklet for  
XYZ(45.9489, 23.1436, 26.7270)  
contains.

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# Color

**XYZ(45.9736, 23.1534,  
26.8569)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF008C
RGB	255, 0, 140
RGB Percent	100%, 0%, 55%
CMY	0.0000, 0.9998, 0.4510
CMYK	0.00, 1.00, 0.45, 0.00
HSL	327°, 100%, 50%
HSV	327°, 100%, 100%
XYZ	45.9736, 23.1534, 26.8569
YIQ	92.2050, 107.0400, 97.6000

# Conversions

## Conversions Part 2

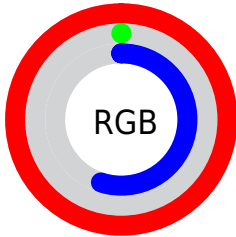
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 0, 140
Decimal	16711820
CIE <sub>Lab</sub>	55.23, 85.46, -2.62
CIE <sub>LCh</sub>	55, 85.503, 358.245
Yxy	23.1534, 0.4790, 0.2412
Android (android.graphics.Color)	4294901900 (0xFFFF008C)
YUV	92.2050, 23.5629, 142.7712
Hunter-Lab	48.1180, 86.3387, 0.5901

# Details

The XYZ color **45.9736, 23.1534, 26.8569** is a dark color, and the websafe version is hex **FF0099**. The color can be described as dark saturated rose. A complement of this color would be **38.8588, 72.7595, 28.2342**, and the grayscale version is **10.1580, 10.6870, 11.6381**.

A 20% lighter version of the original color is **55.4228, 34.2246, 54.1370**, and **23.5837, 11.9447, 10.7354** is the 20% darker color. If you saturate the color by 10%, you get **45.9715, 23.1526, 26.8461**, and if you desaturate by 10%, it is **47.2266, 24.2302, 31.6806**.

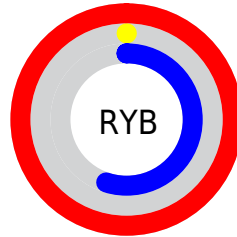
# Distribution



Red (100%)

Green (0%)

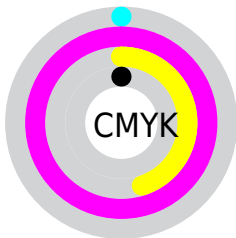
Blue (55%)



Red (100%)

Yellow (0%)

Blue (55%)

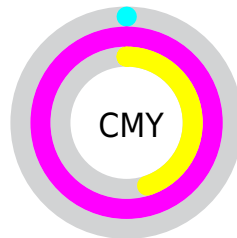


Cyan (0%)

Magenta (100%)

Yellow (45%)

Black (0%)



Cyan (0%)

Magenta (100%)


Yellow (45%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.9736, 23.1534, 26.8569 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 45.9736, 23.1534, 26.8569 by changing the saturation by 10% instead.




 45.9736, 23.1534,  
26.8569


 45.9736, 23.1534,  
26.8569

361.4202,  
268.5119, 300.7018


 32.4295, 14.7068,  
17.2343


 83.4076, 48.6451,  
55.6551

 21.8469, 8.6139,  
10.2380


 108.0282, 66.4590,  
75.6678

 13.8604, 4.4902,  
5.4494


 137.0717, 88.1641,  
99.9809

 8.1047, 1.9514,  
2.4499

 170.9035,  
114.1448, 129.0129

 4.2144, 0.5790,  
0.8134

 209.8889,  
144.7856, 163.1825

 1.8241, 0.0000,  
0.0000

254.3932,

 0.5321, 0.0000,

180.4708, 202.9082

0.0000

304.7819,  
221.5847, 248.6084

■ 0.0000, 0.0000,  
0.0000

■ 45.9736, 23.1534,  
26.8569

■ 45.9736, 23.1534,  
26.8569

■ 45.9715, 23.1526,  
26.8461

■ 47.2266, 24.2302,  
31.6806

■ 49.0378, 26.2776,  
37.1406

■ 51.5529, 29.5825,  
43.2977

■ 54.8615, 34.3206,  
50.1937

■ 59.0392, 40.6391,  
57.8651

■ 64.1520, 48.6670,  
66.3450

■ 70.2596, 58.5198,  
75.6638

■ 77.4162, 70.3026,  
85.8500

■ 85.6721, 84.1129,  
96.9304

# Harmonies

## Analogous

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



41.6343, 23.1534, 64.3152



45.9736, 23.1534, 26.8569



42.5014, 23.1534, 7.5998

# Triad

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



45.9736, 23.1534, 26.8569



14.4020, 23.1534, 1.4576



13.6795, 23.1534, 101.7194

# Complementary

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



45.9736, 23.1534, 26.8569



38.8588, 72.7595, 28.2342

# 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.



9.4587, 23.1534, 59.2413



45.9736, 23.1534, 26.8569



9.7829, 23.1534, 6.4122

# Square

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



45.9736, 23.1534, 26.8569



22.5743, 23.1534, 0.6825



8.2703, 23.1534, 23.6321



21.4485, 23.1534, 122.9611



# Rectangle

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



45.9736, 23.1534, 26.8569



36.6614, 23.1534, 2.7988



8.2703, 23.1534, 23.6321



11.8932, 23.1534, 88.4249

# Sweetspot

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



45.9742, 23.1548, 26.8573



70.2436, 58.4935, 75.6402



25.0925, 10.8516, 95.3796



14.4573, 11.5822, 15.3270



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.



45.9742, 23.1548, 26.8573



45.9716, 23.1526, 26.8462



41.3120, 21.2899, 2.3063



18.4266, 18.1540, 20.8637



24.0975, 12.1283, 14.4299



2.4014, 1.2029, 1.6952



# Inverse Universe

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



45.9742, 23.1548, 26.8573



45.9716, 23.1526, 26.8462



51.8257, 77.9463, 96.5173



18.4266, 18.1540, 20.8637



24.0975, 12.1283, 14.4299



2.4014, 1.2029, 1.6952



# Previews

## White Background



This preview shows how the XYZ color 45.9736, 23.1534, 26.8569 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

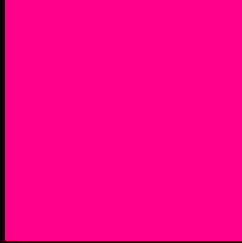
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.9736, 23.1534, 26.8569 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 45.9736, 23.1534, 26.8569**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.9736, 23.1534, 26.8569.



This preview shows how white text looks on a background with the XYZ color 45.9736, 23.1534,

26.8569.

# 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

45.9736, 23.1534, 26.8569

### Protanopia

25.0836, 23.7481, 59.1389

### Deuteranopia

24.0254, 23.5814, 24.0543



## Tritanopia

41.9116, 23.6231, 6.0921

# Trichromacy



## Original Color

45.9736, 23.1534, 26.8569



## Protanomaly

26.1302, 17.1226, 44.5756



## Deuteranomaly

27.7444, 18.2928, 24.2589



## Tritanomaly

42.4961, 22.6453, 11.1480

# Monochromacy



## Original Color

45.9736, 23.1534, 26.8569



## Achromatopsia

10.1725, 10.7023, 11.6548



## Achromatomaly

17.0868, 10.8114, 15.6542

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.9736, 23.1534, 26.8569 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, 140)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 140)  
}
```

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, 140) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 140) }
```

## Border

The CSS property to change the border of an element to XYZ 45.9736, 23.1534, 26.8569 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, 140) }
```



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

```
.border{ border-color:rgb(255, 0, 140) }
```

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, 140)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 140); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 140);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
140) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.9736, 23.1534, 26.8569 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, 140) }
```

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

```
.background{ background-color: rgb(255, 0,  
140) }
```

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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