

# Converting Colors

XYZ(45.3078, 22.8871, 23.3507)

Have a look what the booklet for  
XYZ(45.3078, 22.8871, 23.3507)  
contains.

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# Color

**XYZ(45.3367, 22.8987,  
23.5031)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF0083
RGB	255, 0, 131
RGB Percent	100%, 0%, 51%
CMY	0.0000, 0.9997, 0.4863
CMYK	0.00, 1.00, 0.49, 0.00
HSL	329°, 100%, 50%
HSV	329°, 100%, 100%
XYZ	45.3367, 22.8987, 23.5031
YIQ	91.1790, 109.9290, 94.8010

# Conversions

## Conversions Part 2

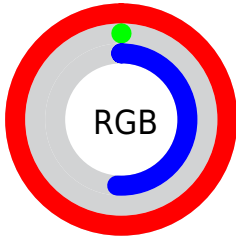
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 0, 131
Decimal	16711811
CIE <sub>Lab</sub>	54.97, 84.77, 2.38
CIE <sub>LCh</sub>	55, 84.805, 1.612
Yxy	22.8987, 0.4942, 0.2496
Android (android.graphics.Color)	4294901891 (0xFFFF0083)
YUV	91.1790, 19.6318, 143.6710
Hunter-Lab	47.8526, 85.3732, 4.3762

# Details

The XYZ color **45.3367, 22.8987, 23.5031** 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 **39.4030, 72.9770, 31.1000**, and the grayscale version is **9.9323, 10.4496, 11.3796**.

A 20% lighter version of the original color is **54.4489, 33.8350, 49.0084**, and **23.0088, 11.6856, 9.0255** is the 20% darker color. If you saturate the color by 10%, you get **45.3344, 22.8977, 23.4916**, and if you desaturate by 10%, it is **46.5883, 23.9751, 28.3193**.

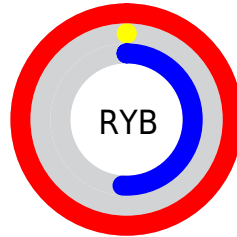
# Distribution



Red (100%)

Green (0%)

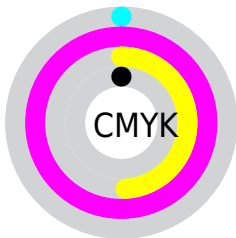
Blue (51%)



Red (100%)

Yellow (0%)

Blue (51%)

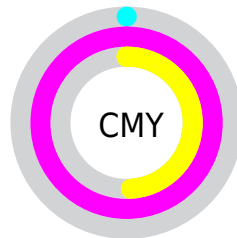


Cyan (0%)

Magenta (100%)

Yellow (49%)

Black (0%)



Cyan (0%)

Magenta (100%)


Yellow (49%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.3367, 22.8987, 23.5031 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 45.3367, 22.8987, 23.5031 by changing the saturation by 10% instead.





 45.3367, 22.8987,  
23.5031


 45.3367, 22.8987,  
23.5031

358.8963,  
267.2043, 283.5038


 31.9251, 14.5187,  
14.7566


 82.4594, 48.2269,  
50.1517


 21.4596, 8.4823,  
8.5041


 106.9012, 65.9440,  
68.8910


 13.5747, 4.4051,  
4.3268

 135.7505, 87.5422,  
91.7983

 7.9052, 1.9026,  
1.8063

 169.3726,  
113.4059, 119.2921

 4.0856, 0.5500,  
0.4321

 208.1329,  
143.9196, 151.7910

 1.7507, 0.0000,  
0.0000

252.3967,

 0.4877, 0.0000,

179.4677, 189.7136

0.0000

302.5294,  
220.4344, 233.4783

■ 0.0000, 0.0000,  
0.0000

■ 45.3367, 22.8987,  
23.5031

■ 45.3367, 22.8987,  
23.5031

■ 45.3344, 22.8977,  
23.4916

■ 46.5883, 23.9751,  
28.3193

■ 48.4110, 26.0272,  
33.8389

■ 50.9509, 29.3422,  
40.1266

■ 54.2986, 34.0961,  
47.2275

■ 58.5300, 40.4364,  
55.1817

■ 63.7121, 48.4923,  
64.0253

■ 69.9049, 58.3793,  
73.7919

■ 77.1632, 70.2032,  
84.5128

■ 85.5378, 84.0612,  
96.2176

# Harmonies

## Analogous

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



41.8891, 22.8987, 58.5952



45.3367, 22.8987, 23.5031



41.1064, 22.8987, 6.4358

# Triad

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



45.3367, 22.8987, 23.5031



13.5884, 22.8987, 1.7153



14.2427, 22.8987, 104.0011

# Complementary

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



45.3367, 22.8987, 23.5031



39.4030, 72.9770, 31.1000

# 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.



9.7020, 22.8987, 63.1732



45.3367, 22.8987, 23.5031



9.4079, 22.8987, 7.5148

# Square

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



45.3367, 22.8987, 23.5031



21.2594, 22.8987, 0.6992



8.2213, 22.8987, 26.4193



22.2776, 22.8987, 120.9479



# Rectangle

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



45.3367, 22.8987, 23.5031



35.0518, 22.8987, 2.3757



8.2213, 22.8987, 26.4193



12.3478, 22.8987, 91.6397

# Sweetspot

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



45.3373, 22.9001, 23.5034



69.8875, 58.3511, 73.7654



26.2598, 11.4534, 95.4340



14.3730, 11.5485, 14.8831



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.



45.3373, 22.9001, 23.5034



45.3346, 22.8978, 23.4917



41.2642, 21.2708, 2.0547



18.3988, 18.1428, 20.7174



23.7641, 11.9949, 12.6740



2.3690, 1.1900, 1.5248



# Inverse Universe

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



45.3373, 22.9001, 23.5034



45.3346, 22.8978, 23.4917



53.1340, 78.4695, 103.4065



18.3988, 18.1428, 20.7174



23.7641, 11.9949, 12.6740



2.3690, 1.1900, 1.5248



# Previews

## White Background



This preview shows how the XYZ color 45.3367, 22.8987, 23.5031 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

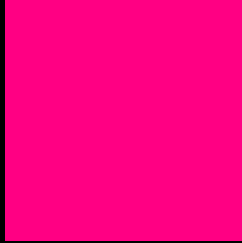
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.3367, 22.8987, 23.5031 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

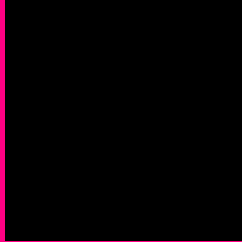
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 45.3367, 22.8987, 23.5031**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.3367, 22.8987, 23.5031.



This preview shows how white text looks on a background with the XYZ color 45.3367, 22.8987,



# 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

45.3367, 22.8987, 23.5031

### Protanopia

24.3718, 23.5516, 51.4055

### Deuteranopia

23.6870, 23.2784, 21.0140



## Tritanopia

41.6315, 23.2131, 5.5352

# Trichromacy



## Original Color

45.3367, 22.8987, 23.5031



## Protanomaly

25.8870, 17.1207, 38.9860



## Deuteranomaly

27.3196, 18.0315, 21.1093



## Tritanomaly

42.1739, 22.3772, 9.8810

# Monochromacy



## Original Color

45.3367, 22.8987, 23.5031



## 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 45.3367, 22.8987, 23.5031 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, 131)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 131)  
}
```

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, 131) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 131) }
```

## Border

The CSS property to change the border of an element to XYZ 45.3367, 22.8987, 23.5031 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, 131) }
```



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

```
.border{ border-color:rgb(255, 0, 131) }
```

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, 131)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 131); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 131);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
131) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.3367, 22.8987, 23.5031 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, 131) }
```

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

```
.background{ background-color: rgb(255, 0,  
131) }
```

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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