

# Converting Colors

XYZ(45.6765, 23.0346, 25.2920)

Have a look what the booklet for  
XYZ(45.6765, 23.0346, 25.2920)  
contains.

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# Color

**XYZ(45.6839, 23.0376,  
25.3314)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF0088
RGB	255, 0, 136
RGB Percent	100%, 0%, 53%
CMY	0.0000, 0.9997, 0.4667
CMYK	0.00, 1.00, 0.47, 0.00
HSL	328°, 100%, 50%
HSV	328°, 100%, 100%
XYZ	45.6839, 23.0376, 25.3314
YIQ	91.7490, 108.3240, 96.3560

# Conversions

## Conversions Part 2

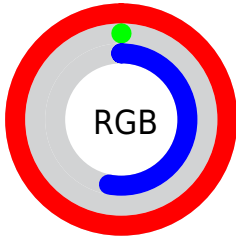
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 0, 136
Decimal	16711816
CIE <sub>Lab</sub>	55.11, 85.15, -0.40
CIE <sub>LCh</sub>	55, 85.150, 359.730
Yxy	23.0376, 0.4857, 0.2449
Android (android.graphics.Color)	4294901896 (0xFFFF0088)
YUV	91.7490, 21.8157, 143.1711
Hunter-Lab	47.9975, 85.9002, 2.3071

# Details

The XYZ color **45.6839, 23.0376, 25.3314** 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 **39.0945, 72.8537, 29.4755**, and the grayscale version is **10.0577, 10.5815, 11.5233**.

A 20% lighter version of the original color is **54.9825, 34.0485, 51.8182**, and **23.2062, 11.7645, 10.0645** is the 20% darker color. If you saturate the color by 10%, you get **45.6815, 23.0366, 25.3197**, and if you desaturate by 10%, it is **46.9374, 24.1148, 30.1576**.

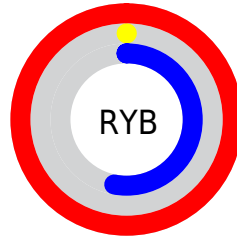
# Distribution



Red (100%)

Green (0%)

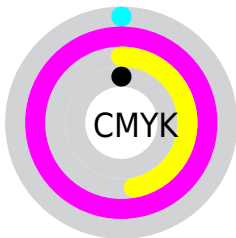
Blue (53%)



Red (100%)

Yellow (0%)

Blue (53%)

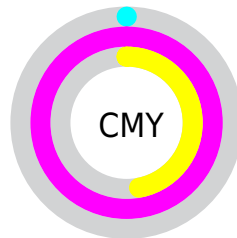


Cyan (0%)

Magenta (100%)

Yellow (47%)

Black (0%)



Cyan (0%)

Magenta (100%)


Yellow (47%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.6839, 23.0376, 25.3314 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 45.6839, 23.0376, 25.3314 by changing the saturation by 10% instead.





 45.6839, 23.0376,  
25.3314


 45.6839, 23.0376,  
25.3314


360.2736,  
267.9181, 292.9847

 32.2000, 14.6213,  
16.1029


 82.9765, 48.4551,  
53.1651


 21.6706, 8.5540,  
9.4418


 107.5159, 66.2250,  
72.6074


 13.7303, 4.4515,  
4.9297


 136.4712, 87.8816,  
96.2913

 8.0138, 1.9292,  
2.1481

 170.2078,  
113.8092, 124.6354

 4.1556, 0.5658,  
0.6442

 209.0910,  
144.3922, 158.0583

 1.7906, 0.0000,  
0.0000

253.4861,

 0.5120, 0.0000,

180.0152, 196.9784

0.0000

303.7585,  
221.0623, 241.8144

■ 0.0000, 0.0000,  
0.0000

■ 45.6839, 23.0376,  
25.3314

■ 45.6839, 23.0376,  
25.3314

■ 45.6815, 23.0366,  
25.3197

■ 46.9374, 24.1148,  
30.1576

■ 48.7549, 26.1648,  
35.6496

■ 51.2821, 29.4748,  
41.8699

■ 54.6090, 34.2204,  
48.8617

■ 58.8115, 40.5491,  
56.6630

■ 63.9559, 48.5899,  
65.3082

■ 70.1020, 58.4584,  
74.8290

■ 77.3043, 70.2599,  
85.2551

■ 85.6134, 84.0918,  
96.6145

# Harmonies

## Analogous

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



41.7410, 23.0376, 61.7279



45.6839, 23.0376, 25.3314



41.8735, 23.0376, 7.0679

# Triad

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



45.6839, 23.0376, 25.3314



14.0363, 23.0376, 1.5685



13.9258, 23.0376, 102.7084

# Complementary

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



45.6839, 23.0376, 25.3314



39.0945, 72.8537, 29.4755

# 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.



9.5652, 23.0376, 60.9528



45.6839, 23.0376, 25.3314



9.6149, 23.0376, 6.8860

# Square

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



45.6839, 23.0376, 25.3314



21.9828, 23.0376, 0.6900



8.2480, 23.0376, 24.8383



21.8106, 23.0376, 122.0450



# Rectangle

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



45.6839, 23.0376, 25.3314



35.9374, 23.0376, 2.6058



8.2480, 23.0376, 24.8383



12.0921, 23.0376, 89.8245

# Sweetspot

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



45.6845, 23.0390, 25.3317



70.0846, 58.4299, 74.8029



25.6633, 11.1459, 95.4061



14.4197, 11.5671, 15.1286



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.



45.6845, 23.0390, 25.3317



45.6817, 23.0367, 25.3198



41.2875, 21.2802, 2.1773



18.4142, 18.1490, 20.7986



23.9459, 12.0677, 13.6315



2.3868, 1.1971, 1.6180



# Inverse Universe

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



45.6845, 23.0390, 25.3317



45.6817, 23.0367, 25.3198



52.4724, 78.2048, 99.9226



18.4142, 18.1490, 20.7986



23.9459, 12.0677, 13.6315



2.3868, 1.1971, 1.6180



# Previews

## White Background



This preview shows how the XYZ color 45.6839, 23.0376, 25.3314 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

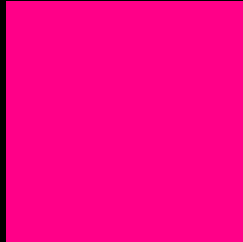
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.6839, 23.0376, 25.3314 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 45.6839, 23.0376, 25.3314**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.6839, 23.0376, 25.3314.



This preview shows how white text looks on a background with the XYZ color 45.6839, 23.0376,



# 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

45.6839, 23.0376, 25.3314

### Protanopia

24.7622, 23.6629, 55.4868

### Deuteranopia

23.9464, 23.5707, 22.6895



## Tritanopia

41.7924, 23.4234, 5.9329

# Trichromacy



## Original Color

45.6839, 23.0376, 25.3314



## Protanomaly

26.0431, 17.1350, 41.9792



## Deuteranomaly

27.7188, 18.3109, 22.8423



## Tritanomaly

42.3171, 22.4796, 10.4961

# Monochromacy



## Original Color

45.6839, 23.0376, 25.3314



## Achromatopsia

10.1725, 10.7023, 11.6548



## Achromatomaly

17.0332, 10.7899, 15.3723

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.6839, 23.0376, 25.3314 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, 136)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 136)  
}
```

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, 136) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 136) }
```

## Border

The CSS property to change the border of an element to XYZ 45.6839, 23.0376, 25.3314 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, 136) }
```



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

```
.border{ border-color:rgb(255, 0, 136) }
```

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, 136) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 136); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 136);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
136) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.6839, 23.0376, 25.3314 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, 136) }
```

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

```
.background{ background-color: rgb(255, 0,  
136) }
```

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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