

# Converting Colors

XYZ(45.7339, 23.0576, 25.5947)

Have a look what the booklet for  
XYZ(45.7339, 23.0576, 25.5947)  
contains.

<b>XYZ(45.7554, 23.0661, 25.7075)</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(45.7554, 23.0661,  
25.7075)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF0089
RGB	255, 0, 137
RGB Percent	100%, 0%, 54%
CMY	0.0000, 0.9998, 0.4627
CMYK	0.00, 1.00, 0.46, 0.00
HSL	328°, 100%, 50%
HSV	328°, 100%, 100%
XYZ	45.7554, 23.0661, 25.7075
YIQ	91.8630, 108.0030, 96.6670

# Conversions

## Conversions Part 2

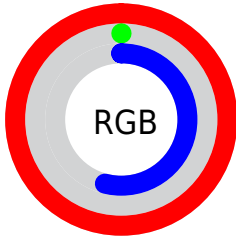
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 0, 137
Decimal	16711817
CIE <sub>Lab</sub>	55.14, 85.23, -0.96
CIE <sub>LCh</sub>	55, 85.232, 359.357
Yxy	23.0661, 0.4840, 0.2440
Android (android.graphics.Color)	4294901897 (0xFFFF0089)
YUV	91.8630, 22.2525, 143.0711
Hunter-Lab	48.0272, 86.0090, 1.8829

# Details

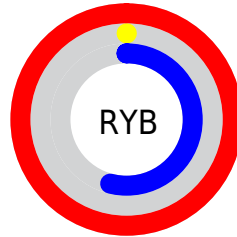
The XYZ color **45.7554, 23.0661, 25.7075** is a dark color, and the websafe version is hex **FF3399**. The color can be described as dark saturated rose. A complement of this color would be **39.0344, 72.8298, 29.1586**, and the grayscale version is **10.0820, 10.6071, 11.5511**.

A 20% lighter version of the original color is **55.0914, 34.0920, 52.3920**, and **23.2473, 11.7809, 10.2812** is the 20% darker color. If you saturate the color by 10%, you get **45.7533, 23.0653, 25.6970**, and if you desaturate by 10%, it is **47.0088, 24.1431, 30.5338**.

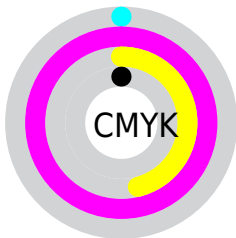
# Distribution



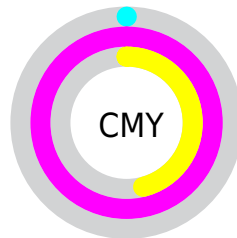
- Red (100%)
- Green (0%)
- Blue (54%)



- Red (100%)
- Yellow (0%)
- Blue (54%)



- Cyan (0%)
- Magenta (100%)
- Yellow (46%)
- Black (0%)




- Cyan (0%)
- Magenta (100%)
- Yellow (46%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.7554, 23.0661, 25.7075 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 45.7554, 23.0661, 25.7075 by changing the saturation by 10% instead.





 45.7554, 23.0661,  
25.7075


 45.7554, 23.0661,  
25.7075

360.5568,  
268.0643, 294.9029


 32.2567, 14.6423,  
16.3811


 83.0829, 48.5018,  
53.7810


 21.7141, 8.5687,  
9.6370


 107.6424, 66.2826,  
73.3652


 13.7624, 4.4610,  
5.0565


 136.6195, 87.9511,  
97.2057

 8.0362, 1.9346,  
2.2211

 170.3796,  
113.8918, 125.7212

 4.1701, 0.5691,  
0.6865

 209.2880,  
144.4891, 159.3301

 1.7988, 0.0000,  
0.0000

253.7101,

 0.5170, 0.0000,

180.1274, 198.4510

0.0000

304.0113,  
221.1910, 243.5024

■ 0.0000, 0.0000,  
0.0000

■ 45.7554, 23.0661,  
25.7075

■ 45.7554, 23.0661,  
25.7075

■ 45.7533, 23.0653,  
25.6970

■ 47.0088, 24.1431,  
30.5338

■ 48.8248, 26.1923,  
36.0185

■ 51.3489, 29.5008,  
42.2236

■ 54.6712, 34.2443,  
49.1920

■ 58.8674, 40.5702,  
56.9612

■ 64.0038, 48.6074,  
65.5653

■ 70.1401, 58.4716,  
75.0358

■ 77.3309, 70.2680,  
85.4019

■ 85.6264, 84.0941,  
96.6913

# Harmonies

## Analogous

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



41.7134, 23.0661, 62.3682



45.7554, 23.0661, 25.7075



42.0293, 23.0661, 7.1986

# Triad

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



45.7554, 23.0661, 25.7075



14.1271, 23.0661, 1.5401



13.8635, 23.0661, 102.4578

# Complementary

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



45.7554, 23.0661, 25.7075



39.0344, 72.8298, 29.1586

# 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.



9.5383, 23.0661, 60.5196



45.7554, 23.0661, 25.7075



9.6566, 23.0661, 6.7650

# Square

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



45.7554, 23.0661, 25.7075



22.1295, 23.0661, 0.6881



8.2534, 23.0661, 24.5318



21.7190, 23.0661, 122.2714



# Rectangle

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



45.7554, 23.0661, 25.7075



36.1171, 23.0661, 2.6533



8.2534, 23.0661, 24.5318



12.0418, 23.0661, 89.4705

# Sweetspot

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



45.7560, 23.0675, 25.7079



70.1243, 58.4458, 75.0121



25.0924, 10.8515, 95.3798



14.4291, 11.5709, 15.1782



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.



45.7560, 23.0675, 25.7079



45.7534, 23.0653, 25.6970



41.3121, 21.2899, 2.3063



18.4173, 18.1503, 20.8149



23.9834, 12.0826, 13.8289



2.3904, 1.1985, 1.6372



# Inverse Universe

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



45.7560, 23.0675, 25.7079



45.7534, 23.0653, 25.6970



51.8258, 77.9464, 96.5174



18.4173, 18.1503, 20.8149



23.9834, 12.0826, 13.8289



2.3904, 1.1985, 1.6372



# Previews

## White Background



This preview shows how the XYZ color 45.7554, 23.0661, 25.7075 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 45.7554, 23.0661, 25.7075 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 45.7554, 23.0661, 25.7075**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.7554, 23.0661, 25.7075.



This preview shows how white text looks on a background with the XYZ color 45.7554, 23.0661,

25.7075.

# 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

45.7554, 23.0661, 25.7075

### Protanopia

24.7499, 23.6433, 56.0825

### Deuteranopia

24.0106, 23.5964, 23.0277



## Tritanopia

41.7924, 23.4234, 5.9329

# Trichromacy



## Original Color

45.7554, 23.0661, 25.7075



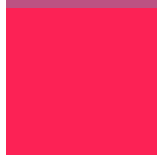
## Protanomaly

25.9354, 17.0682, 42.4850



## Deuteranomaly

27.7856, 18.3377, 23.1942



## Tritanomaly

42.3566, 22.4954, 10.7039

# Monochromacy



## Original Color

45.7554, 23.0661, 25.7075



## 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 45.7554, 23.0661, 25.7075 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, 137)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 137)  
}
```

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, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 137) }
```

## Border

The CSS property to change the border of an element to XYZ 45.7554, 23.0661, 25.7075 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, 137) }
```



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

```
.border{ border-color:rgb(255, 0, 137) }
```

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, 137) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 137); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 137);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
137) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.7554, 23.0661, 25.7075 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, 137) }
```

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

```
.background{ background-color: rgb(255, 0,  
137) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

**@ConvertingColor**