

# Converting Colors

XYZ(52.1086, 24.9400, 24.7999)

Have a look what the booklet for  
XYZ(52.1086, 24.9400, 24.7999)  
contains.

<b>XYZ(45.5431, 22.9812, 24.5897)</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(45.5431, 22.9812,  
24.5897)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF0086
RGB	255, 0, 134
RGB Percent	100%, 0%, 53%
CMY	0.0000, 0.9998, 0.4745
CMYK	0.00, 1.00, 0.47, 0.00
HSL	328°, 100%, 50%
HSV	328°, 100%, 100%
XYZ	45.5431, 22.9812, 24.5897
YIQ	91.5210, 108.9660, 95.7340

# Conversions

## Conversions Part 2

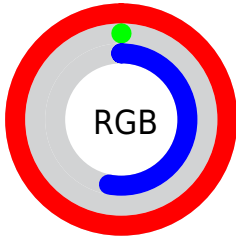
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 0, 134
Decimal	16711814
CIELab	55.05, 85.00, 0.71
CIELCh	55, 85.000, 0.479
Yxy	22.9812, 0.4891, 0.2468
Android (android.graphics.Color)	4294901894 (0xFFFF0086)
YUV	91.5210, 20.9421, 143.3711
Hunter-Lab	47.9387, 85.6872, 3.1449

# Details

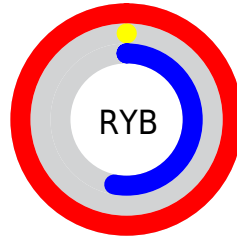
The XYZ color **45.5431, 22.9812, 24.5897** is a dark color, and the websafe version is hex **FF3399**. The color can be described as dark saturated rose. A complement of this color would be **39.2157, 72.9023, 30.1138**, and the grayscale version is **10.0068, 10.5280, 11.4650**.

A 20% lighter version of the original color is **54.7668, 33.9622, 50.6825**, and **23.1256, 11.7322, 9.6400** is the 20% darker color. If you saturate the color by 10%, you get **45.5410, 22.9804, 24.5789**, and if you desaturate by 10%, it is **46.7961, 24.0581, 29.4135**.

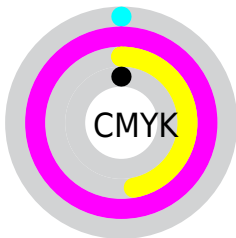
# Distribution



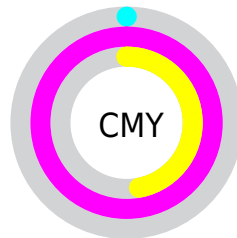
- Red (100%)
- Green (0%)
- Blue (53%)



- 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 45.5431, 22.9812, 24.5897 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 45.5431, 22.9812, 24.5897 by changing the saturation by 10% instead.





 45.5431, 22.9812,  
24.5897

 45.5431, 22.9812,  
24.5897

359.7155,  
267.6284, 289.1704


 32.0885, 14.5796,  
15.5554


 82.7669, 48.3625,  
51.9466

 21.5850, 8.5249,  
9.0592


 107.2667, 66.1109,  
71.1064


 13.6672, 4.4326,  
4.6825


 136.1791, 87.7438,  
94.4783

 7.9697, 1.9184,  
2.0067

 169.8693,  
113.6455, 122.4811

 4.1272, 0.5594,  
0.5594

 208.7027,  
144.2004, 155.5331

 1.7743, 0.0000,  
0.0000

253.0446,

 0.5021, 0.0000,

179.7930, 194.0529

0.0000

303.2604,  
220.8075, 238.4592

■ 0.0000, 0.0000,  
0.0000

■ 45.5431, 22.9812,  
24.5897

■ 45.5431, 22.9812,  
24.5897

■ 45.5410, 22.9804,  
24.5789

■ 46.7961, 24.0581,  
29.4135

■ 48.6158, 26.1088,  
34.9181

■ 51.1483, 29.4207,  
41.1666

■ 54.4836, 34.1695,  
48.2033

■ 58.6977, 40.5026,  
56.0668

■ 63.8572, 48.5492,  
64.7921

■ 70.0219, 58.4248,  
74.4118

■ 77.2465, 70.2349,  
84.9562

■ 85.5817, 84.0769,  
96.4537

# Harmonies

## Analogous

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



41.7983, 22.9812, 60.4617



45.5431, 22.9812, 24.5897



41.5643, 22.9812, 6.8107

# Triad

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



45.5431, 22.9812, 24.5897



13.8559, 22.9812, 1.6260



14.0512, 22.9812, 103.2182

# Complementary

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



45.5431, 22.9812, 24.5897



39.2157, 72.9023, 30.1138

# 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.



9.6194, 22.9812, 61.8300



45.5431, 22.9812, 24.5897



9.5316, 22.9812, 7.1324

# Square

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



45.5431, 22.9812, 24.5897



21.6913, 22.9812, 0.6937



8.2371, 22.9812, 25.4606



21.9953, 22.9812, 121.6004



# Rectangle

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



45.5431, 22.9812, 24.5897



35.5806, 22.9812, 2.5122



8.2371, 22.9812, 25.4606



12.1933, 22.9812, 90.5419

# Sweetspot

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



45.5437, 22.9826, 24.5900



70.0056, 58.3984, 74.3872



25.6630, 11.1456, 95.4063



14.4010, 11.5596, 15.0302



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.



45.5437, 22.9826, 24.5900



45.5410, 22.9804, 24.5790



41.2875, 21.2801, 2.1772



18.4081, 18.1465, 20.7661



23.8723, 12.0382, 13.2437



2.3796, 1.1942, 1.5804



# Inverse Universe

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



45.5437, 22.9826, 24.5900



45.5410, 22.9804, 24.5790



52.4724, 78.2050, 99.9227



18.4081, 18.1465, 20.7661



23.8723, 12.0382, 13.2437



2.3796, 1.1942, 1.5804



# Previews

## White Background



This preview shows how the XYZ color 45.5431, 22.9812, 24.5897 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

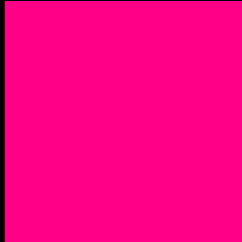
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.5431, 22.9812, 24.5897 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 45.5431, 22.9812, 24.5897**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.5431, 22.9812, 24.5897.



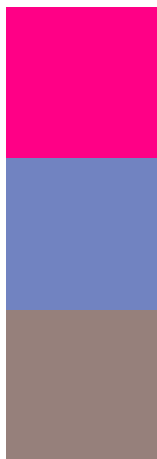
This preview shows how white text looks on a background with the XYZ color 45.5431, 22.9812,



# 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

45.5431, 22.9812, 24.5897

### Protanopia

24.5520, 23.5936, 53.7121

### Deuteranopia

23.8720, 23.3524, 21.9882



## Tritanopia

41.7226, 23.3218, 5.7926

# Trichromacy



## Original Color

45.5431, 22.9812, 24.5897



## Protanomaly

26.0567, 17.1644, 40.9694



## Deuteranomaly

27.5122, 18.1085, 22.1239



## Tritanomaly

42.2782, 22.4640, 10.2913

# Monochromacy



## Original Color

45.5431, 22.9812, 24.5897



## Achromatopsia

10.1725, 10.7023, 11.6548



## Achromatomaly

16.9803, 10.7688, 15.0935

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.5431, 22.9812, 24.5897 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, 134)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 134)  
}
```

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, 134) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 134) }
```

## Border

The CSS property to change the border of an element to XYZ 45.5431, 22.9812, 24.5897 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, 134) }
```



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

```
.border{ border-color:rgb(255, 0, 134) }
```

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, 134)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 134); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 134);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
134) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.5431, 22.9812, 24.5897 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, 134) }
```

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

```
.background{ background-color: rgb(255, 0,  
134) }
```

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](#)