

# Converting Colors

XYZ(45.0309, 22.3543, 40.9607)

Have a look what the booklet for  
XYZ(45.0309, 22.3543, 40.9607)  
contains.

<b>XYZ(45.1026, 22.3910, 40.9745)</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(45.1026, 22.3910,  
40.9745)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F500AC
RGB	245, 0, 172
RGB Percent	96%, 0%, 67%
CMY	0.0392, 0.9998, 0.3255
CMYK	0.00, 1.00, 0.30, 0.04
HSL	318°, 100%, 48%
HSV	318°, 100%, 96%
XYZ	45.1026, 22.3910, 40.9745
YIQ	92.8630, 90.8080, 105.4320

# Conversions

## Conversions Part 2

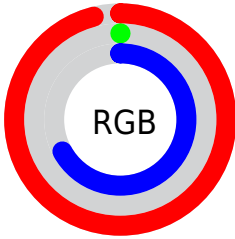
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	245, 0, 172
Decimal	16056492
CIE <sub>Lab</sub>	54.44, 86.38, -22.95
CIE <sub>LCh</sub>	54, 89.372, 345.123
Yxy	22.3910, 0.4158, 0.2064
Android (android.graphics.Color)	4294246572 (0xFFFF500AC)
YUV	92.8630, 39.0145, 133.4241
Hunter-Lab	47.3191, 87.3302, -18.2169

# Details

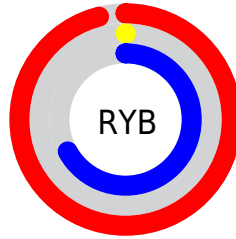
The XYZ color **45.1026, 22.3910, 40.9745** is a dark color, and the websafe version is hex **FF33CC**. The color can be described as middle saturated rose. A complement of this color would be **33.8575, 65.7871, 17.2260**, and the grayscale version is **10.2766, 10.8118, 11.7741**.

A 20% lighter version of the original color is **59.7054, 35.7851, 77.1592**, and **22.8582, 11.3992, 18.4483** is the 20% darker color. If you saturate the color by 10%, you get **45.1013, 22.3905, 40.9669**, and if you desaturate by 10%, it is **46.1617, 23.3557, 44.8832**.

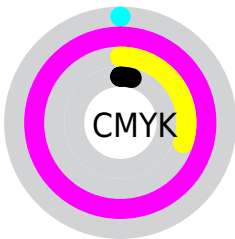
# Distribution



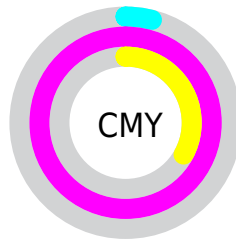
- Red (96%)
- Green (0%)
- Blue (67%)



- Red (96%)
- Yellow (0%)
- Blue (67%)



- Cyan (0%)
- Magenta (100%)
- Yellow (30%)
- Black (4%)




- Cyan (4%)
- Magenta (100%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.1026, 22.3910, 40.9745 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 45.1026, 22.3910, 40.9745 by changing the saturation by 10% instead.




 45.1026, 22.3910,  
40.9745


 45.1026, 22.3910,  
40.9745

357.9656,  
264.5814, 365.8875


 31.7399, 14.1445,  
27.9796


 82.1105, 47.3914,  
77.8984


 21.3175, 8.2212,  
18.0714


 106.4863, 64.9141,  
102.6646

 13.4700, 4.2368,  
10.8313


 135.2639, 86.2976,  
132.1915

 7.8322, 1.8069,  
5.8408

 168.8086,  
111.9263, 166.8978

 4.0387, 0.4915,  
2.6813

 207.4858,  
142.1846, 207.2020

 1.7240, 0.0000,  
0.9340

251.6608,

 0.4712, 0.0000,

177.4570, 253.5227

0.0000

301.6990,  
218.1278, 306.2783

■ 0.0000, 0.0000,  
0.0000

■ 45.1026, 22.3910,  
40.9745

■ 45.1026, 22.3910,  
40.9745

■ 45.1013, 22.3905,  
40.9669

■ 46.1617, 23.3557,  
44.8832

■ 47.6840, 25.1844,  
49.1393

■ 49.8022, 28.1412,  
53.7900

■ 52.5958, 32.3844,  
58.8645

■ 56.1316, 38.0467,  
64.3881

■ 60.4682, 45.2442,  
70.3828

■ 65.6580, 54.0810,  
76.8688

■ 71.7489, 64.6523,  
83.8647

■ 78.7853, 77.0455,  
91.3878

# Harmonies

## Analogous

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



37.5702, 22.3910, 85.4889



45.1026, 22.3910, 40.9745



45.0683, 22.3910, 12.8616

# Triad

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



45.1026, 22.3910, 40.9745



16.7459, 22.3910, 0.5303



10.5850, 22.3910, 85.8654

# Complementary

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



45.1026, 22.3910, 40.9745



33.8575, 65.7871, 17.2260

# 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.



7.8065, 22.3910, 41.2898



45.1026, 22.3910, 40.9745



10.5493, 22.3910, 2.7091

# Square

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



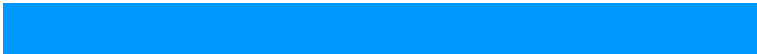
45.1026, 22.3910, 40.9745



26.4811, 22.3910, 0.5233



7.7959, 22.3910, 13.0074



16.8122, 22.3910, 122.1660



# Rectangle

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



45.1026, 22.3910, 40.9745



40.6513, 22.3910, 4.6742



7.7959, 22.3910, 13.0074



9.3143, 22.3910, 70.3061

# Sweetspot

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



45.1033, 22.3922, 40.9749



71.8542, 59.1378, 84.1216



18.9686, 7.8756, 86.9069



14.8413, 11.7358, 17.3492



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.



45.1033, 22.3922, 40.9749



49.3771, 24.5149, 44.7796



38.3023, 19.6718, 5.1614



16.9909, 16.6792, 19.6987



24.3608, 12.0878, 22.4060



2.1862, 1.0804, 2.2068



# Inverse Universe

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



45.1033, 22.3922, 40.9749



49.3771, 24.5149, 44.7796



42.1596, 69.1079, 60.9446



16.9909, 16.6792, 19.6987



24.3608, 12.0878, 22.4060



2.1862, 1.0804, 2.2068



# Previews

## White Background



This preview shows how the XYZ color 45.1026, 22.3910, 40.9745 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

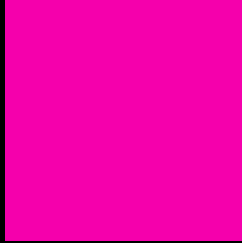
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.1026, 22.3910, 40.9745 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 45.1026, 22.3910, 40.9745**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.1026, 22.3910, 40.9745.



This preview shows how white text looks on a background with the XYZ color 45.1026, 22.3910,



# 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

45.1026, 22.3910, 40.9745

### Protanopia

26.7264, 23.3330, 89.4813

### Deuteranopia

23.4892, 23.0195, 36.9234



## Tritanopia

38.4643, 22.7663, 8.3283

# Trichromacy



## Original Color

45.1026, 22.3910, 40.9745



## Protanomaly

25.4288, 16.0151, 68.0807



## Deuteranomaly

26.8221, 17.5219, 37.5657



## Tritanomaly

39.8463, 21.5112, 16.2393

# Monochromacy



## Original Color

45.1026, 22.3910, 40.9745



## Achromatopsia

10.4043, 10.9462, 11.9204



## Achromatomaly

17.2896, 10.8290, 19.5913

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.1026, 22.3910, 40.9745 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(245, 0, 172)` looks like.

```
.text, #text, p{  
    color:rgb(245, 0, 172)  
}
```

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(245, 0, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 0, 172) }
```

## Border

The CSS property to change the border of an element to XYZ 45.1026, 22.3910, 40.9745 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(245, 0, 172) }
```



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

```
.border{ border-color:rgb(245, 0, 172) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(245, 0, 172) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 0, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 0, 172);  
box-shadow:4px 4px 4px 4px rgb(245, 0,  
172) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.1026, 22.3910, 40.9745 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 0, 172) }
```

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

```
.background{ background-color: rgb(245, 0,  
172) }
```

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