

# Converting Colors

XYZ(46.6833, 23.1186, 44.9920)

Have a look what the booklet for  
XYZ(46.6833, 23.1186, 44.9920)  
contains.

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# Color

**XYZ(46.5960, 23.0694,  
45.1770)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F700B4
RGB	247, 0, 180
RGB Percent	97%, 0%, 71%
CMY	0.0314, 0.9998, 0.2941
CMYK	0.00, 1.00, 0.27, 0.03
HSL	316°, 100%, 48%
HSV	316°, 100%, 97%
XYZ	46.5960, 23.0694, 45.1770
YIQ	94.3730, 89.4320, 108.3440

# Conversions

## Conversions Part 2

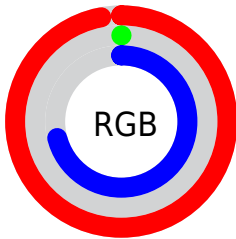
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	247, 0, 180
Decimal	16187572
CIE <sub>Lab</sub>	55.14, 87.60, -26.51
CIE <sub>LCh</sub>	55, 91.521, 343.163
Yxy	23.0694, 0.4057, 0.2009
Android (android.graphics.Color)	4294377652 (0xFFFF700B4)
YUV	94.3730, 42.2141, 133.8539
Hunter-Lab	48.0306, 89.1148, -22.1460

# Details

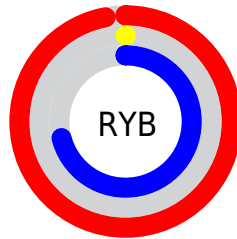
The XYZ color **46.5960, 23.0694, 45.1770** is a dark color, and the websafe version is hex **FF33CC**. The color can be described as middle saturated rose. A complement of this color would be **34.2762, 66.9280, 16.4301**, and the grayscale version is **10.6228, 11.1760, 12.1706**.

A 20% lighter version of the original color is **60.9375, 36.4305, 83.1769**, and **23.8383, 11.8466, 21.1089** is the 20% darker color. If you saturate the color by 10%, you get **46.5948, 23.0690, 45.1697**, and if you desaturate by 10%, it is **47.6380, 24.0340, 48.9747**.

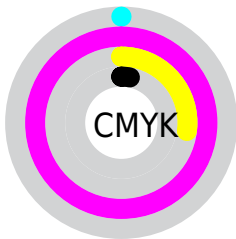
# Distribution



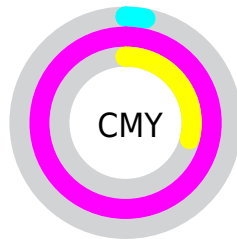
- Red (97%)
- Green (0%)
- Blue (71%)



- Red (97%)
- Yellow (0%)
- Blue (71%)



- Cyan (0%)
- Magenta (100%)
- Yellow (27%)
- Black (3%)




- Cyan (3%)
- Magenta (100%)
- Yellow (29%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.5960, 23.0694, 45.1770 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 46.5960, 23.0694, 45.1770 by changing the saturation by 10% instead.




 46.5960, 23.0694,  
45.1770


 46.5960, 23.0694,  
45.1770

363.8755,  
268.0812, 383.6710

 32.9230, 14.6448,  
31.2529


 84.3327, 48.5073,  
84.3072


 22.2264, 8.5705,  
20.5314


 109.1271, 66.2893,  
110.3504


 14.1409, 4.4621,  
12.5940


 138.3593, 87.9592,  
141.2704

 8.3011, 1.9353,  
7.0222

 172.3947,  
113.9014, 177.4857

 4.3416, 0.5694,  
3.3973

 211.5987,  
144.5003, 219.4149

 1.8972, 0.0000,  
1.3009

256.3366,

 0.5752, 0.0000,

180.1403, 267.4764

0.0625

306.9737,  
221.2059, 322.0890

■ 0.0000, 0.0000,  
0.0000

■ 46.5960, 23.0694,  
45.1770

■ 46.5960, 23.0694,  
45.1770

■ 46.5948, 23.0690,  
45.1697

■ 47.6380, 24.0340,  
48.9747

■ 49.1459, 25.8771,  
53.0927

■ 51.2544, 28.8671,  
57.5782

■ 54.0445, 33.1653,  
62.4603

■ 57.5843, 38.9073,  
67.7638

■ 61.9333, 46.2115,  
73.5107

■ 67.1450, 55.1840,  
79.7207

■ 73.2680, 65.9216,  
86.4122

■ 80.3475, 78.5138,  
93.6020

# Harmonies

## Analogous

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



38.2851, 23.0694, 92.4977



46.5960, 23.0694, 45.1770



47.1365, 23.0694, 14.3672

# Triad

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



46.5960, 23.0694, 45.1770



17.7530, 23.0694, 0.4166



10.4981, 23.0694, 86.5521

# Complementary

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



46.5960, 23.0694, 45.1770



34.2762, 66.9280, 16.4301

# 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.



7.8277, 23.0694, 40.2212



46.5960, 23.0694, 45.1770



11.0522, 23.0694, 2.3781

# Square

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



46.5960, 23.0694, 45.1770



28.1189, 23.0694, 0.5228



7.9928, 23.0694, 12.0992



16.7178, 23.0694, 126.5128



# Rectangle

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



46.5960, 23.0694, 45.1770



42.8089, 23.0694, 5.2076



7.9928, 23.0694, 12.0992



9.2564, 23.0694, 70.1360

# Sweetspot

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



46.5967, 23.0707, 45.1774



72.1465, 59.2547, 85.6611



19.0295, 7.8715, 88.5124



14.9115, 11.7638, 17.7185



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.



46.5967, 23.0707, 45.1774



50.0833, 24.7973, 48.4984



39.1139, 20.0775, 5.7733



17.0105, 16.6871, 19.8021



24.7049, 12.2254, 24.2183



2.2142, 1.0916, 2.3543



# Inverse Universe

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



46.5967, 23.0707, 45.1774



50.0833, 24.7973, 48.4984



42.4881, 70.2127, 59.6732



17.0105, 16.6871, 19.8021



24.7049, 12.2254, 24.2183



2.2142, 1.0916, 2.3543



# Previews

## White Background



This preview shows how the XYZ color 46.5960, 23.0694, 45.1770 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

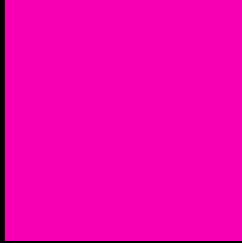
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.5960, 23.0694, 45.1770 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

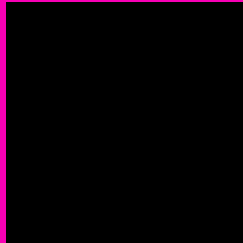
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 46.5960, 23.0694, 45.1770**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.5960, 23.0694, 45.1770.



This preview shows how white text looks on a background with the XYZ color 46.5960, 23.0694,

45.1770.

# 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

46.5960, 23.0694, 45.1770

### Protanopia

27.9502, 23.9773, 97.7627

### Deuteranopia

24.0863, 23.6489, 40.3410



## Tritanopia

39.0859, 23.3516, 8.9258

# Trichromacy



## Original Color

46.5960, 23.0694, 45.1770



## Protanomaly

26.2268, 16.3818, 75.1785



## Deuteranomaly

27.3342, 17.8230, 41.0292



## Tritanomaly

40.5370, 21.9463, 17.7223

# Monochromacy



## Original Color

46.5960, 23.0694, 45.1770



## Achromatopsia

10.6392, 11.1932, 12.1894



## Achromatomaly

17.8952, 11.1964, 20.6200

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.5960, 23.0694, 45.1770 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(247, 0, 180)` looks like.

```
.text, #text, p{  
    color:rgb(247, 0, 180)  
}
```

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(247, 0, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 0, 180) }
```

## Border

The CSS property to change the border of an element to XYZ 46.5960, 23.0694, 45.1770 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(247, 0, 180) }
```



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

```
.border{ border-color:rgb(247, 0, 180) }
```

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

Here you see how a box with a 4 pixel rgb(247, 0, 180) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 0, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 0, 180);  
box-shadow:4px 4px 4px 4px rgb(247, 0,  
180) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.5960, 23.0694, 45.1770 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 0, 180) }
```

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

```
.background{ background-color: rgb(247, 0,  
180) }
```

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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