

# Converting Colors

XYZ(46.9875, 23.4513, 37.0599)

Have a look what the booklet for  
XYZ(46.9875, 23.4513, 37.0599)  
contains.

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# Color

**XYZ(46.8457, 23.3758,  
37.1649)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FC00A4
RGB	252, 0, 164
RGB Percent	99%, 0%, 64%
CMY	0.0118, 0.9998, 0.3569
CMYK	0.00, 1.00, 0.35, 0.01
HSL	321°, 100%, 49%
HSV	321°, 100%, 99%
XYZ	46.8457, 23.3758, 37.1649
YIQ	94.0440, 97.5480, 104.4280

# Conversions

## Conversions Part 2

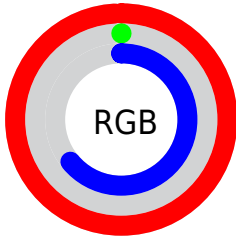
<b>Format</b>	<b>Color</b>
<b>RYB</b>	252, 0, 164
Decimal	16515236
CIELab	55.46, 86.95, -16.57
CIELCh	55, 88.514, 349.210
Yxy	23.3758, 0.4362, 0.2177
Android (android.graphics.Color)	4294705316 (0xFFFC00A4)
YUV	94.0440, 34.4883, 138.5274
Hunter-Lab	48.3485, 88.3417, -11.7315

# Details

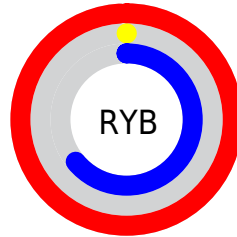
The XYZ color **46.8457, 23.3758, 37.1649** is a dark color, and the websafe version is hex **FF0099**. The color can be described as middle saturated rose. A complement of this color would be **36.5751, 70.3268, 20.8925**, and the grayscale version is **10.5628, 11.1129, 12.1020**.

A 20% lighter version of the original color is **58.5834, 35.4888, 70.7802**, and **23.9109, 11.9887, 16.3830** is the 20% darker color. If you saturate the color by 10%, you get **46.8438, 23.3750, 37.1548**, and if you desaturate by 10%, it is **48.0218, 24.4114, 41.6159**.

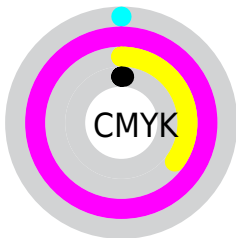
# Distribution



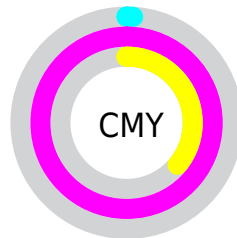
- Red (99%)
- Green (0%)
- Blue (64%)



- Red (99%)
- Yellow (0%)
- Blue (64%)



- Cyan (0%)
- Magenta (100%)
- Yellow (35%)
- Black (1%)




- Cyan (1%)
- Magenta (100%)
- Yellow (36%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.8457, 23.3758, 37.1649 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 46.8457, 23.3758, 37.1649 by changing the saturation by 10% instead.




 46.8457, 23.3758,  
37.1649


 46.8457, 23.3758,  
37.1649


364.8575,  
269.6493, 349.2141

 33.1211, 14.8712,  
25.0384


 84.7034, 49.0097,  
72.0155


 22.3789, 8.7291,  
15.8864


 109.5672, 66.9077,  
95.5767


 14.2538, 4.5649,  
9.2903


 138.8749, 88.7058,  
123.7865

 8.3803, 1.9943,  
4.8316

 172.9917,  
114.7882, 157.0635

 4.3931, 0.6042,  
2.0918

 212.2830,  
145.5394, 195.8262

 1.9268, 0.0000,  
0.6109

257.1141,

 0.5923, 0.0000,

181.3437, 240.4932

0.0000

307.8505,  
222.5856, 291.4829

■ 0.0000, 0.0000,  
0.0000

■ 46.8457, 23.3758,  
37.1649

■ 46.8457, 23.3758,  
37.1649

■ 46.8438, 23.3750,  
37.1548

■ 48.0218, 24.4114,  
41.6159

■ 49.7080, 26.3774,  
46.5135

■ 52.0448, 29.5533,  
51.9099

■ 55.1182, 34.1092,  
57.8387

■ 59.0001, 40.1875,  
64.3289

■ 63.7537, 47.9130,  
71.4061

■ 69.4356, 57.3973,  
79.0941

■ 76.0974, 68.7424,  
87.4144

■ 83.7869, 82.0422,  
96.3875

# Harmonies

## Analogous

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



40.1046, 23.3758, 80.7417



46.8457, 23.3758, 37.1649



45.6589, 23.3758, 11.3327

# Triad

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



46.8457, 23.3758, 37.1649



16.4925, 23.3758, 0.8411



11.9068, 23.3758, 93.6741

# Complementary

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



46.8457, 23.3758, 37.1649



36.5751, 70.3268, 20.8925

# 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.



8.5945, 23.3758, 48.1059



46.8457, 23.3758, 37.1649



10.6422, 23.3758, 3.8033

# Square

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



46.8457, 23.3758, 37.1649



26.0002, 23.3758, 0.6060



8.2137, 23.3758, 16.5020



18.8216, 23.3758, 126.3179



# Rectangle

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



46.8457, 23.3758, 37.1649



40.6097, 23.3758, 4.1389



8.2137, 23.3758, 16.5020



10.4358, 23.3758, 78.2670

# Sweetspot

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



46.8464, 23.3771, 37.1653



71.3025, 58.9171, 81.2163



21.2312, 8.9163, 92.6974



14.7093, 11.6830, 16.6540



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.



46.8464, 23.3771, 37.1653



48.1166, 24.0106, 38.1417



40.5644, 20.8643, 4.0845



17.7205, 17.4155, 20.3838



24.4739, 12.2053, 19.7356



2.3168, 1.1505, 2.0917



# Inverse Universe

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



46.8464, 23.3771, 37.1653



48.1166, 24.0106, 38.1417



46.4453, 74.2748, 72.8680



17.7205, 17.4155, 20.3838



24.4739, 12.2053, 19.7356



2.3168, 1.1505, 2.0917



# Previews

## White Background



This preview shows how the XYZ color 46.8457, 23.3758, 37.1649 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

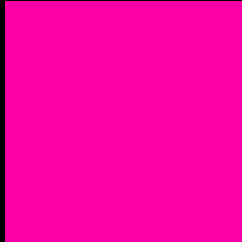
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.8457, 23.3758, 37.1649 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 46.8457, 23.3758, 37.1649**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.8457, 23.3758, 37.1649.



This preview shows how white text looks on a background with the XYZ color 46.8457, 23.3758,

37.1649.

# 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

46.8457, 23.3758, 37.1649

### Protanopia

27.0422, 24.2570, 81.8541

### Deuteranopia

24.3473, 23.9358, 33.4738



## Tritanopia

40.9095, 23.7787, 7.7438

# Trichromacy



## Original Color

46.8457, 23.3758, 37.1649



## Protanomaly

26.6345, 16.9930, 62.1978



## Deuteranomaly

27.7695, 18.2045, 33.9485



## Tritanomaly

41.9026, 22.5016, 14.7051

# Monochromacy



## Original Color

46.8457, 23.3758, 37.1649



## Achromatopsia

10.6392, 11.1932, 12.1894



## Achromatomaly

17.7081, 11.1429, 18.6702

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.8457, 23.3758, 37.1649 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(252, 0, 164)` looks like.

```
.text, #text, p{  
    color:rgb(252, 0, 164)  
}
```

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(252, 0, 164) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(252, 0, 164) }
```

## Border

The CSS property to change the border of an element to XYZ 46.8457, 23.3758, 37.1649 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(252, 0, 164) }
```



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

```
.border{ border-color:rgb(252, 0, 164) }
```

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

Here you see how a box with a 4 pixel rgb(252, 0, 164) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(252, 0, 164); -webkit-box-  
shadow:4px 4px 4px 4px rgb(252, 0, 164);  
box-shadow:4px 4px 4px 4px rgb(252, 0,  
164) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.8457, 23.3758, 37.1649 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(252, 0, 164) }
```

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

```
.background{ background-color: rgb(252, 0,  
164) }
```

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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