

# Converting Colors

XYZ(46.3025, 23.2850, 28.5888)

Have a look what the booklet for  
XYZ(46.3025, 23.2850, 28.5888)  
contains.

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# Color

**XYZ(46.2740, 23.2736,  
28.4389)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF0090
RGB	255, 0, 144
RGB Percent	100%, 0%, 56%
CMY	0.0000, 0.9997, 0.4353
CMYK	0.00, 1.00, 0.44, 0.00
HSL	326°, 100%, 50%
HSV	326°, 100%, 100%
XYZ	46.2740, 23.2736, 28.4389
YIQ	92.6610, 105.7560, 98.8440

# Conversions

## Conversions Part 2

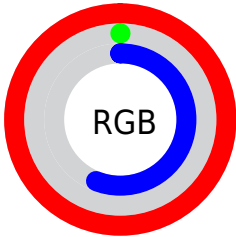
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 0, 144
Decimal	16711824
CIELab	55.35, 85.79, -4.82
CIELCh	55, 85.920, 356.783
Yxy	23.2736, 0.4722, 0.2375
Android (android.graphics.Color)	4294901904 (0xFFFF0090)
YUV	92.6610, 25.3101, 142.3713
Hunter-Lab	48.2427, 86.7909, -1.1813

# Details

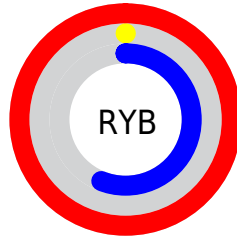
The XYZ color **46.2740, 23.2736, 28.4389** is a dark color, and the websafe version is hex **FF0099**, and the color name is **magenta (process)**. The color can be described as middle saturated rose. A complement of this color would be **38.6335, 72.6693, 27.0477**, and the grayscale version is **10.2598, 10.7941, 11.7548**.

A 20% lighter version of the original color is **55.9902, 34.4516, 57.1249**, and **23.7586, 12.0146, 11.6565** is the 20% darker color. If you saturate the color by 10%, you get **46.2718, 23.2727, 28.4277**, and if you desaturate by 10%, it is **47.5248, 24.3496, 33.2509**.

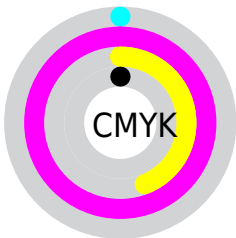
# Distribution



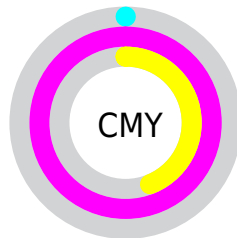
- Red (100%)
- Green (0%)
- Blue (56%)



- Red (100%)
- Yellow (0%)
- Blue (56%)



- Cyan (0%)
- Magenta (100%)
- Yellow (44%)
- Black (0%)




- Cyan (0%)
- Magenta (100%)
- Yellow (44%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.2740, 23.2736, 28.4389 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 46.2740, 23.2736, 28.4389 by changing the saturation by 10% instead.




 46.2740, 23.2736,  
28.4389


 46.2740, 23.2736,  
28.4389


362.6066,  
269.1272, 308.5359


 32.6676, 14.7957,  
18.4149


 83.8543, 48.8422,  
58.2159


 22.0300, 8.6761,  
11.0757


 108.5589, 66.7016,  
78.8060


 13.9956, 4.5305,  
6.0030


 137.6936, 88.4570,  
103.7551

 8.1993, 1.9745,  
2.7781

 171.6238,  
114.4928, 133.4819

 4.2756, 0.5926,  
0.9825

 210.7149,  
145.1933, 168.4048

 1.8592, 0.0000,  
0.0000

255.3321,

 0.5530, 0.0000,

180.9429, 208.9424

0.0000

305.8409,  
222.1261, 255.5133

■ 0.0000, 0.0000,  
0.0000

■ 46.2740, 23.2736,  
28.4389

■ 46.2740, 23.2736,  
28.4389

■ 46.2718, 23.2727,  
28.4277

■ 47.5248, 24.3496,  
33.2509

■ 49.3284, 26.3940,  
38.6701

■ 51.8300, 29.6936,  
44.7561

■ 55.1191, 34.4239,  
51.5491

■ 59.2709, 40.7323,  
59.0845

■ 64.3515, 48.7474,  
67.3939

■ 70.4200, 58.5846,  
76.5067

■ 77.5306, 70.3492,  
86.4502

■ 85.7333, 84.1383,  
97.2499

# Harmonies

## Analogous

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



41.5383, 23.2736, 66.9749



46.2740, 23.2736, 28.4389



43.1421, 23.2736, 8.1553

# Triad

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



46.2740, 23.2736, 28.4389



14.7743, 23.2736, 1.3526



13.4398, 23.2736, 100.7698

# Complementary

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



46.2740, 23.2736, 28.4389



38.6335, 72.6693, 27.0477

# 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.



9.3549, 23.2736, 57.5860



46.2740, 23.2736, 28.4389



9.9533, 23.2736, 5.9638

# Square

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



46.2740, 23.2736, 28.4389



23.1776, 23.2736, 0.6747



8.2936, 23.2736, 22.4766



21.0967, 23.2736, 123.9107



# Rectangle

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



46.2740, 23.2736, 28.4389



37.3994, 23.2736, 3.0000



8.2936, 23.2736, 22.4766



11.6995, 23.2736, 87.0709

# Sweetspot

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



46.2746, 23.2750, 28.4393



70.4036, 58.5575, 76.4829



24.5480, 10.5709, 95.3540



14.4953, 11.5974, 15.5269



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.



46.2746, 23.2750, 28.4393



46.2719, 23.2728, 28.4278



41.3422, 21.3020, 2.4655



18.4390, 18.1589, 20.9288



24.2545, 12.1911, 15.2564



2.4165, 1.2090, 1.7745



# Inverse Universe

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



46.2746, 23.2750, 28.4393



46.2719, 23.2728, 28.4278



51.1939, 77.6935, 93.1901



18.4390, 18.1589, 20.9288



24.2545, 12.1911, 15.2564



2.4165, 1.2090, 1.7745



# Previews

## White Background



This preview shows how the XYZ color 46.2740, 23.2736, 28.4389 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

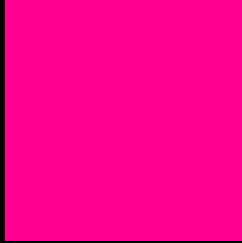
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.2740, 23.2736, 28.4389 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 46.2740, 23.2736, 28.4389**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.2740, 23.2736, 28.4389.



This preview shows how white text looks on a background with the XYZ color 46.2740, 23.2736,



# 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

46.2740, 23.2736, 28.4389

### Protanopia

25.4422, 23.8634, 62.2966

### Deuteranopia

24.2489, 23.8618, 25.5180



## Tritanopia

41.6512, 23.5557, 6.3544

# Trichromacy



## Original Color

46.2740, 23.2736, 28.4389



## Protanomaly

26.4429, 17.2243, 47.2783



## Deuteranomaly

27.8583, 18.4318, 25.7563



## Tritanomaly

42.5789, 22.6785, 11.5844

# Monochromacy



## Original Color

46.2740, 23.2736, 28.4389



## Achromatopsia

10.4043, 10.9462, 11.9204



## Achromatomaly

17.4375, 10.9732, 16.5282

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.2740, 23.2736, 28.4389 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, 144)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 144)  
}
```

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, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 144) }
```

## Border

The CSS property to change the border of an element to XYZ 46.2740, 23.2736, 28.4389 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, 144) }
```



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

```
.border{ border-color:rgb(255, 0, 144) }
```

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, 144) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 144); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 144);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
144) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.2740, 23.2736, 28.4389 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, 144) }
```

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

```
.background{ background-color: rgb(255, 0,  
144) }
```

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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