

# Converting Colors

XYZ(40.3916, 21.0688, 28.8902)

Have a look what the booklet for  
XYZ(40.3916, 21.0688, 28.8902)  
contains.

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# Color

**XYZ(40.2749, 21.0213,  
28.7228)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EC2291
RGB	236, 34, 145
RGB Percent	93%, 13%, 57%
CMY	0.0745, 0.8666, 0.4314
CMYK	0.00, 0.86, 0.39, 0.07
HSL	327°, 84%, 53%
HSV	327°, 86%, 93%
XYZ	40.2749, 21.0213, 28.7228
YIQ	107.0520, 84.7610, 77.3450

# Conversions

## Conversions Part 2

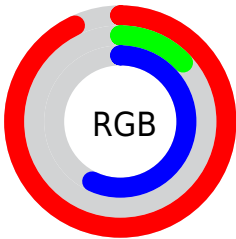
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	236, 34, 145
Decimal	15475345
CIE Lab	52.97, 78.25, -9.35
CIE LCh	53, 78.811, 353.187
Yxy	21.0213, 0.4474, 0.2335
Android (android.graphics.Color)	4293665425 (0xFFEC2291)
YUV	107.0520, 18.7084, 113.0874
Hunter-Lab	45.8490, 76.5631, -5.0488

# Details

The XYZ color **40.2749, 21.0213, 28.7228** is a dark color, and the websafe version is hex **FF3399**. The color can be described as middle washed rose. A complement of this color would be **34.3589, 61.8124, 29.5294**, and the grayscale version is **13.9259, 14.6512, 15.9551**.

A 20% lighter version of the original color is **56.7028, 35.6916, 57.9334**, and **19.5211, 9.8249, 11.6940** is the 20% darker color. If you saturate the color by 10%, you get **39.0339, 19.7906, 24.4515**, and if you desaturate by 10%, it is **42.0558, 23.2089, 33.5530**.

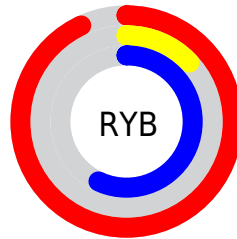
# Distribution



Red (93%)

Green (13%)

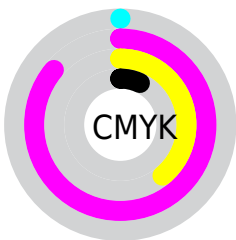
Blue (57%)



Red (93%)

Yellow (13%)

Blue (57%)

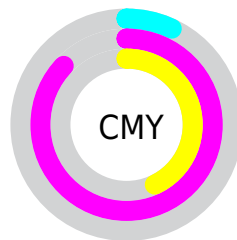


Cyan (0%)

Magenta (86%)

Yellow (39%)

Black (7%)



Cyan (7%)

Magenta (87%)


Yellow (43%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.2749, 21.0213, 28.7228 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 40.2749, 21.0213, 28.7228 by changing the saturation by 10% instead.





 40.2749, 21.0213,  
28.7228


 40.2749, 21.0213,  
28.7228

338.3955,  
257.3917, 309.9247


 27.9381, 13.1396,  
18.6275


 74.8636, 45.1230,  
58.6733


 18.4192, 7.5247,  
11.2273


 97.8463, 62.1117,  
79.3655


 11.3529, 3.7924,  
6.1039


 125.1082, 82.9049,  
104.4271

 6.3738, 1.5581,  
2.8385

 157.0149,  
107.8870, 134.2767

 3.1165, 0.3291,  
1.0128

 193.9316,  
137.4423, 169.3326

 1.2156, 0.0000,  
0.0000

236.2237,

 0.1187, 0.0000,

171.9552, 210.0136

0.0000

284.2565,  
211.8102, 256.7381

■ 0.0000, 0.0000,  
0.0000

■ 40.2749, 21.0213,  
28.7228

■ 40.2749, 21.0213,  
28.7228

■ 39.0339, 19.7906,  
24.4515

■ 42.0558, 23.2089,  
33.5530

■ 38.5993, 19.4357,  
22.7208

■ 44.4583, 26.5137,  
38.9788

■ 47.5512, 31.0701,  
45.0329

■ 51.3930, 36.9922,  
51.7440

■ 56.0358, 44.3812,  
59.1385

61.5268, 53.3289,  
67.2406

67.9094, 63.9190,  
76.0733

75.2238, 76.2298,  
85.6581

83.5080, 90.3340,  
96.0156

# Harmonies

## Analogous

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



35.5921, 21.0213, 62.4186



40.2749, 21.0213, 28.7228



38.4347, 21.0213, 9.2399

# Triad

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



40.2749, 21.0213, 28.7228



14.3541, 21.0213, 1.3661



11.8912, 21.0213, 82.0700

# Complementary

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



40.2749, 21.0213, 28.7228



34.3589, 61.8124, 29.5294

# 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.



8.6440, 21.0213, 45.8880



40.2749, 21.0213, 28.7228



9.7678, 21.0213, 5.0157

# Square

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



40.2749, 21.0213, 28.7228



21.9251, 21.0213, 0.9143



7.9912, 21.0213, 17.9033



18.1537, 21.0213, 104.3306



# Rectangle

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



40.2749, 21.0213, 28.7228



33.9493, 21.0213, 3.7347



7.9912, 21.0213, 17.9033



10.4896, 21.0213, 70.2937

# Sweetspot

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



40.2755, 21.0225, 28.7231



72.9813, 62.9695, 79.6343



24.1576, 11.5548, 80.3138



15.1125, 12.6450, 16.3084



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.



40.2755, 21.0225, 28.7231



45.9819, 23.1567, 26.9003



35.6216, 19.1609, 4.2158



15.4118, 15.1926, 17.4538



21.3429, 10.7398, 12.8730



1.7243, 0.8627, 1.2657



# Inverse Universe

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



40.2755, 21.0225, 28.7231



45.9819, 23.1567, 26.9003



44.3697, 65.8168, 82.2456



15.4118, 15.1926, 17.4538



21.3429, 10.7398, 12.8730



1.7243, 0.8627, 1.2657



# Previews

## White Background



This preview shows how the XYZ color 40.2749, 21.0213, 28.7228 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

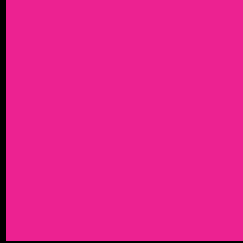
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.2749, 21.0213, 28.7228 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 40.2749, 21.0213, 28.7228**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.2749, 21.0213, 28.7228.



This preview shows how white text looks on a background with the XYZ color 40.2749, 21.0213,

28.7228.

# 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

40.2749, 21.0213, 28.7228

### Protanopia

23.0313, 21.5282, 58.8186

### Deuteranopia

21.6095, 21.1494, 25.8650



## Tritanopia

35.8015, 21.0610, 7.4884

# Trichromacy



## Original Color

40.2749, 21.0213, 28.7228



## Protanomaly

24.3804, 17.2864, 45.7677



## Deuteranomaly

25.4145, 18.1169, 26.5835



## Tritanomaly

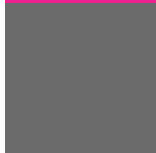
36.9429, 20.6961, 12.8741

# Monochromacy



## Original Color

40.2749, 21.0213, 28.7228



## Achromatopsia

13.9749, 14.7027, 16.0113



## Achromatomaly

19.6463, 13.9878, 19.7536

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.2749, 21.0213, 28.7228 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(236, 34, 145)` looks like.

```
.text, #text, p{  
    color:rgb(236, 34, 145)  
}
```

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(236, 34, 145) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 34, 145) }
```

## Border

The CSS property to change the border of an element to XYZ 40.2749, 21.0213, 28.7228 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(236, 34, 145) }
```



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

```
.border{ border-color:rgb(236, 34, 145) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 34, 145)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(236, 34, 145); -webkit-box-shadow:4px 4px 4px 4px rgb(236, 34, 145); box-shadow:4px 4px 4px 4px rgb(236, 34, 145) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.2749, 21.0213, 28.7228 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 34, 145) }
```

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

```
.background{ background-color: rgb(236, 34,  
145) }
```

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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