

# Converting Colors

XYZ(36.1646, 15.4389, 25.2199)

Have a look what the booklet for  
XYZ(36.1646, 15.4389, 25.2199)  
contains.

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# Color

**XYZ(37.8662, 18.9908,  
25.7146)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E8008A
RGB	232, 0, 138
RGB Percent	91%, 0%, 54%
CMY	0.0902, 0.9998, 0.4588
CMYK	0.00, 1.00, 0.41, 0.09
HSL	324°, 100%, 46%
HSV	324°, 100%, 91%
XYZ	37.8662, 18.9908, 25.7146
YIQ	85.1000, 93.9740, 92.1020

# Conversions

## Conversions Part 2

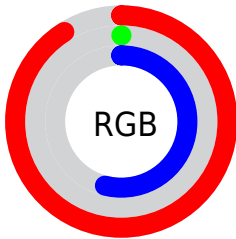
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	232, 0, 138
Decimal	15204490
CIE Lab	50.68, 80.51, -8.66
CIE LCh	51, 80.976, 353.857
Yxy	18.9908, 0.4586, 0.2300
Android (android.graphics.Color)	4293394570 (0xFFE8008A)
YUV	85.1000, 26.0797, 128.8313
Hunter-Lab	43.5784, 78.8401, -4.4807

# Details

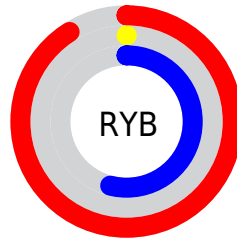
The XYZ color **37.8662, 18.9908, 25.7146** is a dark color, and the websafe version is hex **FF3399**. The color can be described as dark washed rose. A complement of this color would be **30.8799, 58.5226, 20.2700**, and the grayscale version is **8.5948, 9.0424, 9.8472**.

A 20% lighter version of the original color is **54.7362, 33.2060, 52.8147**, and **18.3390, 9.2506, 10.0515** is the 20% darker color. If you saturate the color by 10%, you get **37.8647, 18.9902, 25.7069**, and if you desaturate by 10%, it is **38.8882, 19.8978, 29.5606**.

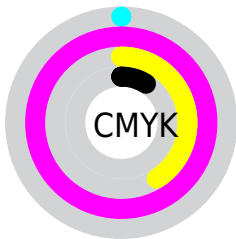
# Distribution



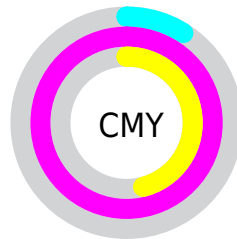
- Red (91%)
- Green (0%)
- Blue (54%)



- Red (91%)
- Yellow (0%)
- Blue (54%)



- Cyan (0%)
- Magenta (100%)
- Yellow (41%)
- Black (9%)




- Cyan (9%)
- Magenta (100%)
- Yellow (46%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.8662, 18.9908, 25.7146 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 37.8662, 18.9908, 25.7146 by changing the saturation by 10% instead.





 37.8662, 18.9908,  
25.7146


 37.8662, 18.9908,  
25.7146


328.3364,  
246.3980, 294.9390


 26.0556, 11.6636,  
16.3864


 71.2082, 41.7186,  
53.7926


 16.9981, 6.5151,  
9.6407


 93.4704, 57.8879,  
73.3795


 10.3285, 3.1607,  
5.0589


 119.9471, 77.7735,  
97.2230

 5.6812, 1.2162,  
2.2225

 151.0037,  
101.7596, 125.7417

 2.6910, 0.0749,  
0.6873

 187.0056,  
130.2308, 159.3541

 0.9926, 0.0000,  
0.0000

 228.3181,

 0.0000, 0.0000,

163.5713, 198.4787

0.0000

275.3066,  
202.1655, 243.5342

■ 37.8662, 18.9908,  
25.7146

■ 37.8662, 18.9908,  
25.7146

■ 37.8647, 18.9902,  
25.7069

■ 38.8882, 19.8978,  
29.5606

■ 40.3425, 21.5728,  
33.8485

■ 42.3490, 24.2533,  
38.6251

■ 44.9778, 28.0774,  
43.9204

■ 48.2880, 33.1615,  
49.7605

■ 52.3317, 39.6073,  
56.1690

■ 57.1554, 47.5063,  
63.1674

■ 62.8019, 56.9417,  
70.7758

■ 69.3105, 67.9907,  
79.0131

# Harmonies

## Analogous

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



33.3872, 18.9908, 58.6386



37.8662, 18.9908, 25.7146



35.9081, 18.9908, 7.5615

# Triad

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



37.8662, 18.9908, 25.7146



12.5558, 18.9908, 0.9310



10.4641, 18.9908, 79.8419

# Complementary

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



37.8662, 18.9908, 25.7146



30.8799, 58.5226, 20.2700

# 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.



7.3834, 18.9908, 43.8641



37.8662, 18.9908, 25.7146



8.3200, 18.9908, 4.1303

# Square

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



37.8662, 18.9908, 25.7146



19.7325, 18.9908, 0.4797



6.7333, 18.9908, 16.3457



16.4663, 18.9908, 101.6515



# Rectangle

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



37.8662, 18.9908, 25.7146



31.4381, 18.9908, 2.7746



6.7333, 18.9908, 16.3457



9.1325, 18.9908, 68.1323

# Sweetspot

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



37.8667, 18.9919, 25.7149



70.7143, 58.6818, 78.1190



19.0631, 8.1456, 76.9115



14.5691, 11.6269, 15.9157



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.



37.8667, 18.9919, 25.7149



46.8796, 23.5158, 31.6277



33.4364, 17.2198, 2.3850



14.7349, 14.5112, 16.8046



21.0850, 10.5682, 14.6082



1.6038, 0.7992, 1.3204



# Inverse Universe

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



37.8667, 18.9919, 25.7149



46.8796, 23.5158, 31.6277



40.3418, 62.3074, 70.0955



14.7349, 14.5112, 16.8046



21.0850, 10.5682, 14.6082



1.6038, 0.7992, 1.3204



# Previews

## White Background



This preview shows how the XYZ color 37.8662, 18.9908, 25.7146 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

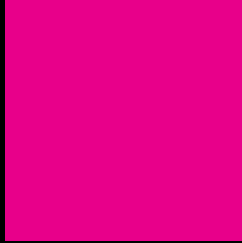
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.8662, 18.9908, 25.7146 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 37.8662, 18.9908, 25.7146**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.8662, 18.9908, 25.7146.



This preview shows how white text looks on a background with the XYZ color 37.8662, 18.9908,

25.7146.

# 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

37.8662, 18.9908, 25.7146

### Protanopia

21.3231, 19.7855, 56.1212

### Deuteranopia

20.0088, 19.6577, 23.1618



## Tritanopia

33.7586, 19.3488, 5.6968

# Trichromacy



## Original Color

37.8662, 18.9908, 25.7146



## Protanomaly

21.7486, 14.1431, 42.6579



## Deuteranomaly

22.8977, 15.1597, 23.5491



## Tritanomaly

34.5938, 18.5320, 10.5578

# Monochromacy



## Original Color

37.8662, 18.9908, 25.7146



## Achromatopsia

8.6345, 9.0842, 9.8927



## Achromatomaly

14.2991, 9.0411, 14.0882

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.8662, 18.9908, 25.7146 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(232, 0, 138)` looks like.

```
.text, #text, p{  
    color:rgb(232, 0, 138)  
}
```

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(232, 0, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 0, 138) }
```

## Border

The CSS property to change the border of an element to XYZ 37.8662, 18.9908, 25.7146 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(232, 0, 138) }
```



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

```
.border{ border-color:rgb(232, 0, 138) }
```

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

Here you see how a box with a 4 pixel rgb(232, 0, 138) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 0, 138); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 0, 138);  
box-shadow:4px 4px 4px 4px rgb(232, 0,  
138) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.8662, 18.9908, 25.7146 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 0, 138) }
```

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

```
.background{ background-color: rgb(232, 0,  
138) }
```

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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