

# Converting Colors

RGB(233, 16, 157)

Have a look what the booklet for  
RGB(233, 16, 157) contains.

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# Color

**RGB(233, 16, 157)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E9109D
RGB	233, 16, 157
RGB Percent	91%, 6%, 62%
CMY	0.0863, 0.9373, 0.3843
CMYK	0.00, 0.93, 0.33, 0.09
HSL	321°, 87%, 49%
HSV	321°, 93%, 91%
XYZ	39.8754, 20.1285, 33.6818
YIQ	96.9570, 84.0710, 89.8550

# Conversions

## Conversions Part 2

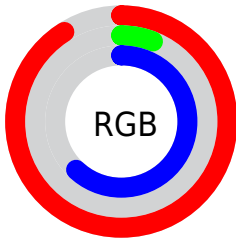
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	233, 16, 157
Decimal	15274141
CIE <sub>Lab</sub>	51.98, 81.28, -18.05
CIE <sub>LCh</sub>	52, 83.258, 347.478
Yxy	20.1285, 0.4256, 0.2149
Android (android.graphics.Color)	4293464221 (0xFFE9109D)
YUV	96.9570, 29.6012, 119.3097
Hunter-Lab	44.8648, 80.1353, -13.1060

# Details

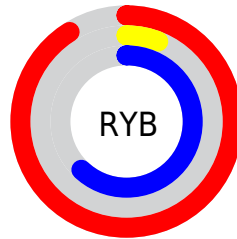
The RGB color **233, 16, 157** is a dark color, and the websafe version is hex **FF0099**. The color can be described as middle washed rose. A complement of this color would be **16, 233, 92**, and the grayscale version is **97, 97, 97**.

A 20% lighter version of the original color is **255, 100, 212**, and **172, 0, 106** is the 20% darker color. If you saturate the color by 10%, you get **233, 0, 151**, and if you desaturate by 10%, it is **233, 39, 165**.

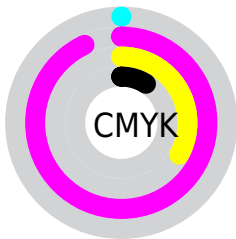
# Distribution



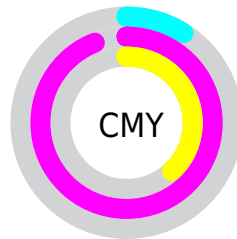
- Red (91%)
- Green (6%)
- Blue (62%)



- Red (91%)
- Yellow (6%)
- Blue (62%)



- Cyan (0%)
- Magenta (93%)
- Yellow (33%)
- Black (9%)



- Cyan (9%)
- Magenta (94%)
- Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the RGB color 233, 16, 157 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 RGB color 233, 16, 157 by changing the saturation by 10% instead.





233, 16, 157



233, 16, 157

255, 255, 255



202, 0, 131



255, 100, 212



172, 0, 106



255, 131, 240



142, 0, 81



255, 161, 255



112, 0, 58



255, 191, 255



83, 0, 37



255, 222, 255



54, 0, 12



255, 252, 255



9, 0, 0



0, 0, 0



233, 16, 157



233, 16, 157

■ 233, 0, 151

■ 233, 39, 165

■ 233, 63, 173

■ 233, 86, 181

■ 233, 109, 190

■ 233, 133, 198

■ 233, 156, 206

■ 233, 179, 214

■ 233, 202, 222

■ 233, 226, 230

# Harmonies

## Analogous

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



176, 79, 222



233, 16, 157



245, 5, 86

# Triad

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



233, 16, 157



112, 133, 0



0, 152, 229

# Complementary

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



233, 16, 157



16, 233, 92

# 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.



0, 154, 165



233, 16, 157



0, 146, 0

# Square

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



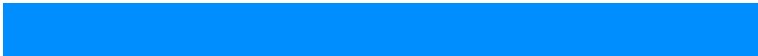
233, 16, 157



175, 110, 0



0, 152, 90



0, 142, 255

# Rectangle

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



233, 16, 157



233, 55, 40



0, 152, 90



0, 153, 210



# Sweetspot

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



233, 16, 157



255, 184, 230



92, 16, 233



128, 84, 112



0, 0, 0



128, 128, 128



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



233, 16, 157



255, 0, 166



233, 16, 49



117, 106, 113



181, 0, 118



54, 0, 35



# Inverse Universe

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



233, 16, 157



255, 0, 166



16, 233, 200



117, 106, 113



181, 0, 118



54, 0, 35



# Previews

## White Background



This preview shows how the RGB color 233, 16, 157 looks on a white background.

## Color Contrast Check

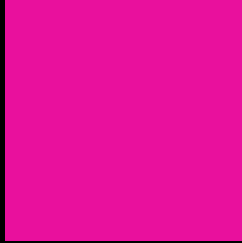
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the RGB color 233, 16, 157 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](#).



## RGB 233, 16, 157 Background



This preview shows how black text looks on a background with the RGB color 233, 16, 157.

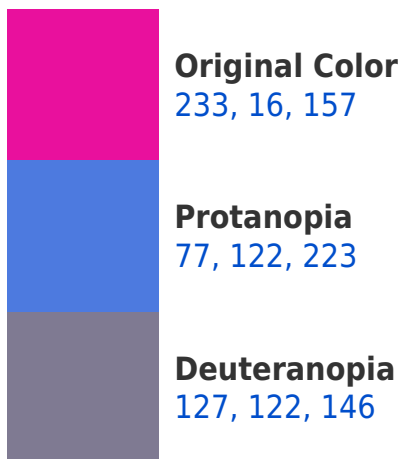


This preview shows how white text looks on a background with the RGB color 233, 16, 157.

# 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





**Tritanopia**  
227, 63, 66

# Trichromacy



**Original Color**

233, 16, 157



**Protanomaly**

134, 83, 199



**Deuteranomaly**

166, 83, 150



**Tritanomaly**

229, 46, 99

# Monochromacy



**Original Color**

233, 16, 157



**Achromatopsia**

97, 97, 97



**Achromatomaly**

146, 68, 119

# CSS Examples

## Text

The CSS property to change the color of the text to RGB 233, 16, 157 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(233, 16, 157)` looks like.

```
.text, #text, p{  
    color:rgb(233, 16, 157)  
}
```

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(233, 16, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 16, 157) }
```

## Border

The CSS property to change the border of an element to RGB 233, 16, 157 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(233, 16, 157) }
```

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

```
.border{ border-color:rgb(233, 16, 157) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 16, 157)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 16, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 16, 157);  
box-shadow:4px 4px 4px 4px rgb(233, 16,  
157) }
```

# Background

The CSS property to change the background color of an element to RGB 233, 16, 157 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 16, 157) }
```

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

```
.background{ background-color: rgb(233, 16,  
157) }
```

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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