

# Converting Colors

`RYB(235, 21, 120)`

Have a look what the booklet for  
RYB(235, 21, 120) contains.

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# Color

**R<sub>Y</sub>B(235, 21, 120)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	EB1578
RGB	235, 21, 120
RGB Percent	92%, 8%, 47%
CMY	0.0784, 0.9176, 0.5294
CMYK	0.00, 0.91, 0.49, 0.08
HSL	332°, 84%, 50%
HSV	332°, 91%, 92%
XYZ	37.9193, 19.5546, 19.5451
YIQ	96.2720, 95.7650, 76.1570

# Conversions

## Conversions Part 2

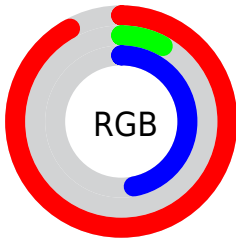
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	235, 21, 120
Decimal	15406456
CIE <sub>Lab</sub>	51.33, 77.87, 3.26
CIE <sub>LCh</sub>	51, 77.935, 2.401
Yxy	19.5546, 0.4923, 0.2539
Android (android.graphics.Color)	4293596536 (0xFFEB1578)
YUV	96.2720, 11.6979, 121.6645
Hunter-Lab	44.2205, 75.6785, 4.7487

# Details

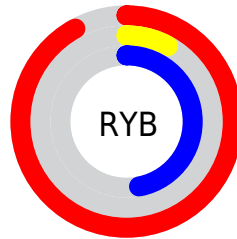
The RYB color **235, 21, 120** is a dark color, and the websafe version is hex **CC0066**. The color can be described as dark washed rose. A complement of this color would be **21, 160, 235**, and the grayscale version is **96, 96, 96**.

A 20% lighter version of the original color is **255, 100, 172**, and **172, 0, 72** is the 20% darker color. If you saturate the color by 10%, you get **235, 0, 109**, and if you desaturate by 10%, it is **235, 45, 133**.

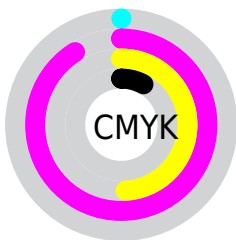
# Distribution



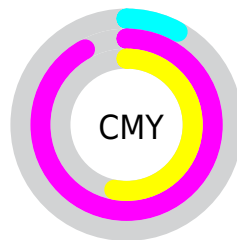
- Red (92%)
- Green (8%)
- Blue (47%)



- Red (92%)
- Yellow (8%)
- Blue (47%)



- Cyan (0%)
- Magenta (91%)
- Yellow (49%)
- Black (8%)




- Cyan (8%)
- Magenta (92%)
- Yellow (53%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 235, 21, 120 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 RYB color 235, 21, 120 by changing the saturation by 10% instead.



 235, 21, 120

 235, 21, 120

255, 255, 255

 204, 0, 95

 255, 100, 172

 172, 0, 72

 255, 131, 199

 142, 0, 50

 255, 161, 227

 111, 0, 30

 255, 191, 255

 82, 0, 4

 255, 221, 255

 50, 0, 2

 255, 252, 255

 0, 0, 0

 235, 21, 120


 235, 21, 120

 235, 0, 109

 235, 45, 133


 235, 68, 145

 235, 92, 158

 235, 115, 171

 235, 139, 183

 235, 162, 196

 235, 186, 208

 235, 209, 221

 235, 233, 234

# Harmonies

## Analogous

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



204, 60, 185



235, 21, 120



229, 54, 55

# Triad

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



235, 21, 120



0, 138, 64



0, 91, 241

# Complementary

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



235, 21, 120



21, 160, 235

# 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, 84, 193



235, 21, 120



0, 107, 147

# Square

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



235, 21, 120



26, 144, 0



0, 82, 150



0, 86, 255

# Rectangle

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



235, 21, 120



209, 135, 0



0, 82, 150



0, 89, 228



# Sweetspot

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



235, 21, 120



255, 186, 218



135, 21, 235



128, 87, 106



0, 0, 0



128, 128, 128



# Same Dimension

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



235, 21, 120



255, 0, 118



235, 28, 21



117, 106, 111



181, 0, 84



54, 0, 25



# Inverse Universe

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



235, 21, 120



255, 0, 118



21, 126, 235



117, 106, 111



181, 0, 84



54, 0, 25



# Previews

## White Background



This preview shows how the RYB color 235, 21, 120 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 RYB color 235, 21, 120 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](#).



## **RYB 235, 21, 120 Background**



This preview shows how black text looks on a background with the RYB color 235, 21, 120.



This preview shows how white text looks on a background with the RYB color 235, 21, 120.

# 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**

235, 21, 120

**Protanopia**

108, 119, 171

**Deuteranopia**

140, 123, 110



**Tritanopia**  
232, 51, 51

# Trichromacy



**Original Color**

235, 21, 120



**Protanomaly**

154, 85, 152



**Deuteranomaly**

175, 83, 114



**Tritanomaly**

233, 40, 76

# Monochromacy



**Original Color**

235, 21, 120



**Achromatopsia**

96, 96, 96



**Achromatomaly**

147, 69, 105

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 235, 21, 120 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(235, 21, 120)` looks like.

```
.text, #text, p{  
    color:rgb(235, 21, 120)  
}
```

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(235, 21, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 21, 120) }
```

## Border

The CSS property to change the border of an element to RYB 235, 21, 120 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(235, 21, 120) }
```

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

```
.border{ border-color:rgb(235, 21, 120) }
```

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

Here you see how a box with a 4 pixel rgb(235, 21, 120) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 21, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 21, 120);  
box-shadow:4px 4px 4px 4px rgb(235, 21,  
120) }
```

# Background

The CSS property to change the background color of an element to RGB 235, 21, 120 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 21, 120) }
```

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

```
.background{ background-color: rgb(235, 21,  
120) }
```

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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