

# Converting Colors

`RYB(228, 116, 229)`

Have a look what the booklet for  
RYB(228, 116, 229) contains.

<b>RYB(228, 116, 229)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	23
<b><i>Color Blindness Simulation</i></b> .....	26
<b><i>CSS Examples</i></b> .....	29

# Color

**R<sub>Y</sub>B(228, 116, 229)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E474E5
RGB	228, 116, 229
RGB Percent	89%, 45%, 90%
CMY	0.1059, 0.5451, 0.1020
CMYK	0.00, 0.49, 0.00, 0.10
HSL	299°, 68%, 68%
HSV	299°, 49%, 90%
XYZ	52.3832, 34.6419, 78.0544
YIQ	162.3700, 30.4790, 58.8870

# Conversions

## Conversions Part 2

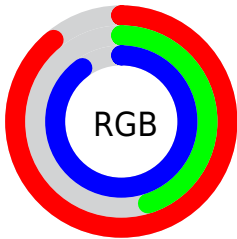
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	228, 116, 229
Decimal	14972133
CIE Lab	65.47, 58.78, -38.53
CIE LCh	65, 70.285, 326.755
Yxy	34.6419, 0.3173, 0.2098
Android (android.graphics.Color)	4293162213 (0xFFE474E5)
YUV	162.3700, 32.8486, 57.5575
Hunter-Lab	58.8574, 55.8649, -37.4280

# Details

The RYB color **228, 116, 229** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **116, 229, 228**, and the grayscale version is **162, 162, 162**.

A 20% lighter version of the original color is **255, 172, 255**, and **170, 61, 173** is the 20% darker color. If you saturate the color by 10%, you get **228, 93, 229**, and if you desaturate by 10%, it is **228, 139, 229**.

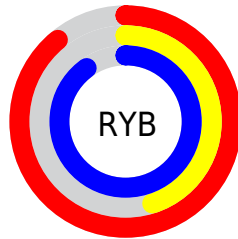
# Distribution



Red (89%)

Green (45%)

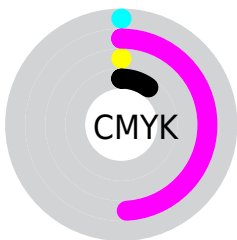
Blue (90%)



Red (89%)

Yellow (45%)

Blue (90%)

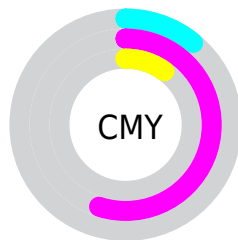


Cyan (0%)

Magenta (49%)

Yellow (0%)

Black (10%)



Cyan (11%)

Magenta (55%)

Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 228, 116, 229 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 228, 116, 229 by changing the saturation by 10% instead.




 228, 116, 229

255, 255, 255

 255, 172, 255

 255, 200, 255


 255, 229, 255

 228, 116, 229

 199, 89, 201

 170, 61, 173

 142, 30, 146

 114, 0, 120

 87, 0, 95

 61, 0, 71

 36, 0, 48


 0, 1, 25

 0, 0, 0


 228, 116, 229

 228, 116, 229

 228, 93, 229

 228, 139, 229

 228, 70, 229

 228, 162, 229

 227, 47, 229

 229, 185, 229

 227, 24, 229

 229, 208, 229

 227, 1, 229

 229, 230, 230

 227, 0, 229

 229, 253, 253

 229, 255, 255

 229, 255, 254

# Harmonies

## Analogous

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



144, 145, 255



228, 116, 229



255, 96, 169

# Triad

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



228, 116, 229



52, 195, 0



0, 100, 214

# Complementary

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



228, 116, 229



116, 229, 228

# 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, 105, 188



228, 116, 229



26, 172, 64

# Square

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



228, 116, 229



242, 180, 51



28, 141, 183



0, 106, 255

# Rectangle

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



228, 116, 229



255, 97, 126



28, 141, 183



0, 95, 193



# Sweetspot

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



228, 116, 229



255, 217, 255



116, 118, 229



127, 105, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



228, 116, 229



254, 105, 255



229, 116, 174



115, 103, 115



177, 0, 179



51, 0, 51



# Inverse Universe

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



229, 116, 117



255, 105, 106



116, 192, 229



115, 103, 103



179, 0, 2



51, 0, 0



# Previews

## White Background



This preview shows how the RYB color 228, 116, 229 looks on a white background.

## Color Contrast Check

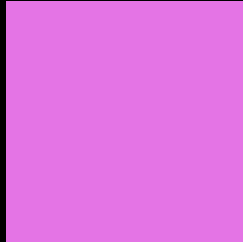
Large Text (above 18pt) WCAG AA × Fail

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 228, 116, 229 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 ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).



## R Y B 228, 116, 229 Background



This preview shows how black text looks on a background with the R Y B color 228, 116, 229.

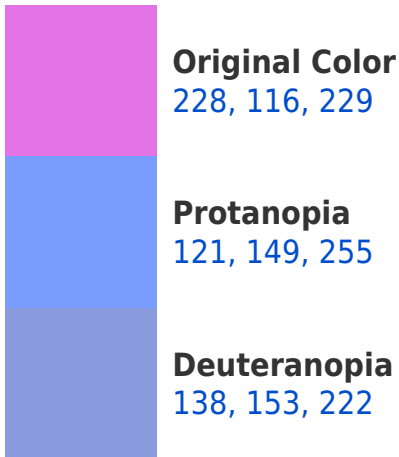



This preview shows how white text looks on a background with the R Y B color 228, 116, 229.

# 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**  
218, 136, 146

# Trichromacy



**Original Color**

228, 116, 229



**Protanomaly**

160, 141, 246



**Deuteranomaly**

171, 142, 225



**Tritanomaly**

222, 129, 176

# Monochromacy



**Original Color**

228, 116, 229



**Achromatopsia**

162, 162, 162



**Achromatomaly**

186, 145, 186

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 228, 116, 229 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(228, 116, 229)` looks like.

```
.text, #text, p{  
    color:rgb(228, 116, 229)  
}
```

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(228, 116, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 116, 229) }
```

## Border

The CSS property to change the border of an element to RYB 228, 116, 229 is called "border". The border property can be set on classes, ids or directly on the HTML element.

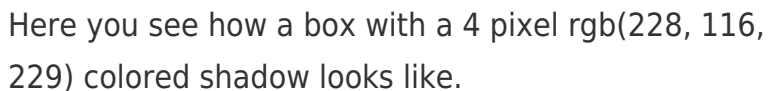
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(228, 116, 229) }
```

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

```
.border{ border-color:rgb(228, 116, 229) }
```

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



Here you see how a box with a 4 pixel `rgb(228, 116, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(228, 116, 229); -webkit-box-shadow:4px 4px 4px 4px rgb(228, 116, 229); box-shadow:4px 4px 4px 4px rgb(228, 116, 229) }
```

# Background

The CSS property to change the background color of an element to RGB 228, 116, 229 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 116, 229) }
```

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

```
.background{ background-color: rgb(228,  
116, 229) }
```

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](#).



Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor