

# Converting Colors

`RYB(221, 239, 228)`

Have a look what the booklet for  
RYB(221, 239, 228) contains.

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# Color

**R<sub>Y</sub>B(221, 239, 228)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E8EFDD
RGB	232, 239, 221
RGB Percent	91%, 94%, 87%
CMY	0.0902, 0.0627, 0.1333
CMYK	0.03, 0.00, 0.08, 0.06
HSL	83°, 36%, 90%
HSV	83°, 8%, 94%
XYZ	77.1964, 84.1093, 80.5726
YIQ	234.8550, 1.6060, -7.0820

# Conversions

## Conversions Part 2

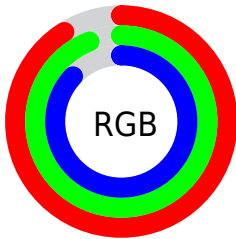
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	221, 239, 228
Decimal	15265757
CIE Lab	93.50, -5.47, 7.89
CIE LCh	93, 9.600, 124.731
Yxy	84.1093, 0.3192, 0.3477
Android (android.graphics.Color)	4293455837 (0xFFE8EFDD)
YUV	234.8550, -6.8305, -2.5038
Hunter-Lab	91.7111, -10.2449, 12.1086

# Details

The RYB color **221, 239, 228** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **228, 221, 239**, and the grayscale version is **235, 235, 235**.

A 20% lighter version of the original color is 255, 255, 255, and **166, 183, 173** is the 20% darker color. If you saturate the color by 10%, you get **197, 239, 213**, and if you desaturate by 10%, it is **241, 239, 245**.

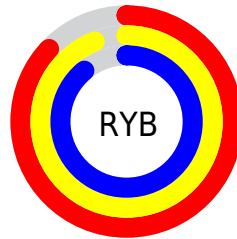
# Distribution



Red (91%)

Green (94%)

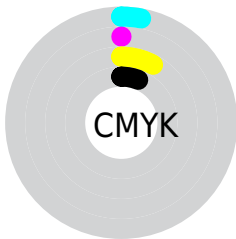
Blue (87%)



Red (87%)

Yellow (94%)

Blue (89%)

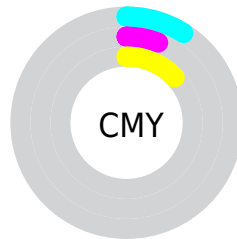


Cyan (3%)

Magenta (0%)

Yellow (8%)

Black (6%)



Cyan (9%)

Magenta (6%)

Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 221, 239, 228 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 221, 239, 228 by changing the saturation by 10% instead.



■ 221, 239, 228

255, 255, 255

■ 221, 239, 228

■ 193, 211, 200

■ 166, 183, 173

■ 140, 156, 146

■ 114, 130, 120

■ 90, 105, 96

■ 66, 81, 72

■ 44, 58, 50


■ 23, 36, 28

■ 0, 16, 11

 221, 239, 228

 221, 239, 228

 197, 239, 213

 241, 239, 245

 173, 239, 199

 251, 239, 255

 149, 239, 184

 255, 239, 255

 125, 239, 169

 102, 239, 155

 78, 239, 141

 54, 239, 126

 30, 239, 111

 6, 239, 97

# Harmonies

## Analogous

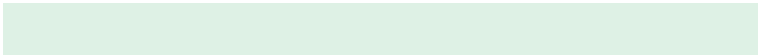
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



228, 243, 218



221, 239, 228



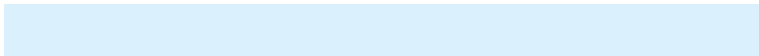
222, 236, 241

# Triad

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



221, 239, 228



219, 232, 253



255, 230, 235

# Complementary

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



221, 239, 228



228, 221, 239

# 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.



250, 231, 244



221, 239, 228



229, 235, 255

# Square

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



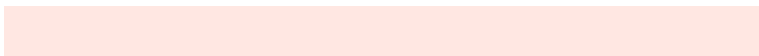
221, 239, 228



214, 229, 246



240, 234, 251



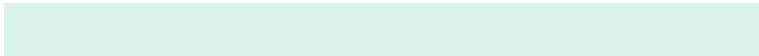
255, 232, 226

# Rectangle

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



221, 239, 228



217, 232, 242



240, 234, 251



254, 230, 238



# Sweetspot

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



221, 239, 228



250, 255, 252



239, 232, 221



125, 128, 126



0, 0, 0



128, 128, 128



# Same Dimension

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



221, 239, 228



232, 255, 241



221, 239, 237



108, 120, 113



0, 184, 72



0, 56, 22



# Inverse Universe

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



228, 221, 239



241, 232, 255



237, 221, 239



113, 108, 120



71, 0, 184

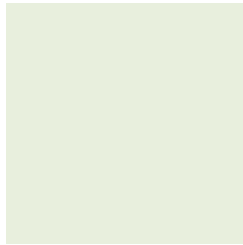


22, 0, 56



# Previews

## White Background



This preview shows how the RYB color 221, 239, 228 looks on a white background.

## Color Contrast Check

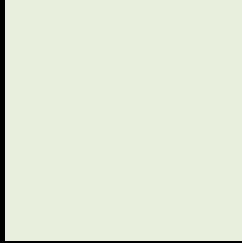
Large Text (above 18pt) WCAG AA × Fail

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 221, 239, 228 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

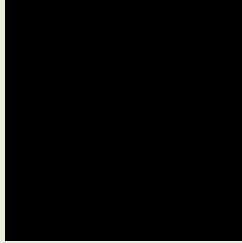
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

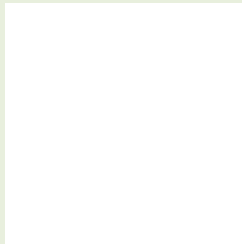
If you want to check with other color combinations, try the [Color Contrast Checker](#).



## **R/Y/B 221, 239, 228 Background**



This preview shows how black text looks on a background with the R/Y/B color 221, 239, 228.

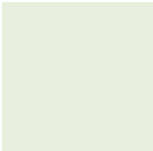
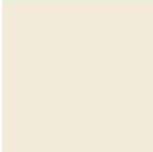
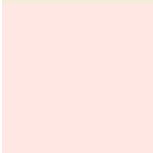


This preview shows how white text looks on a background with the R/Y/B color 221, 239, 228.

# 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

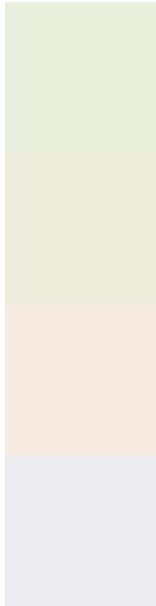
	<b>Original Color</b> <a href="#">221, 239, 228</a>
	<b>Protanopia</b> <a href="#">233, 244, 219</a>
	<b>Deuteranopia</b> <a href="#">255, 231, 228</a>



# Tritanopia

237, 234, 253

# Trichromacy



**Original Color**

221, 239, 228

**Protanomaly**

225, 240, 220

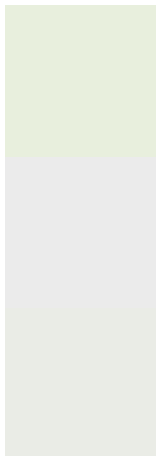
**Deuteranomaly**

247, 240, 225

**Tritanomaly**

235, 236, 241

# Monochromacy



**Original Color**

221, 239, 228

**Achromatopsia**

235, 235, 235

**Achromatomaly**

230, 236, 232

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 221, 239, 228 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, 239, 221) looks like.

```
.text, #text, p{  
    color:rgb(232, 239, 221)  
}
```

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, 239, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 239, 221) }
```

## Border

The CSS property to change the border of an element to RYB 221, 239, 228 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, 239, 221) }
```

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

```
.border{ border-color:rgb(232, 239, 221) }
```

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

Here you see how a box with a 4 pixel rgb(232, 239, 221) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 239, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 239, 221);  
box-shadow:4px 4px 4px 4px rgb(232, 239,  
221) }
```

# Background

The CSS property to change the background color of an element to RGB 232, 239, 221 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 239, 221) }
```

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

```
.background{ background-color: rgb(232,  
239, 221) }
```

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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