

Converting Colors

`RYB(224, 231, 220)`

Have a look what the booklet for
RYB(224, 231, 220) contains.

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Color

R_YB(224, 231, 220)

Conversions

Conversions Part 1

Format	Color
Hex	E7E4DC
RGB	231, 228, 220
RGB Percent	91%, 89%, 86%
CMY	0.0941, 0.1056, 0.1373
CMYK	0.00, 0.01, 0.05, 0.09
HSL	44°, 19%, 88%
HSV	44°, 5%, 91%
XYZ	73.6350, 77.6797, 78.8229
YIQ	227.9850, 4.3560, -1.8520

Conversions

Conversions Part 2

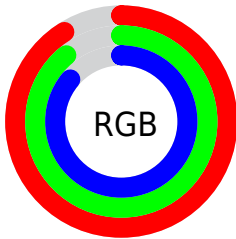
Format	Color
RYB	224, 231, 220
Decimal	15197404
CIELab	90.63, -0.41, 4.27
CIELCh	91, 4.289, 95.480
Yxy	77.6797, 0.3200, 0.3375
Android (android.graphics.Color)	4293387484 (0xFFE7E4DC)
YUV	227.9850, -3.9366, 2.6442
Hunter-Lab	88.1361, -5.1069, 8.6704

Details

The RYB color **224, 231, 220** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **220, 222, 231**, and the grayscale version is **228, 228, 228**.

A 20% lighter version of the original color is **255, 255, 255**, and **168, 175, 165** is the 20% darker color. If you saturate the color by 10%, you get **209, 231, 197**, and if you desaturate by 10%, it is **231, 233, 243**.

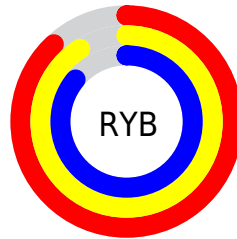
Distribution



Red (91%)

Green (89%)

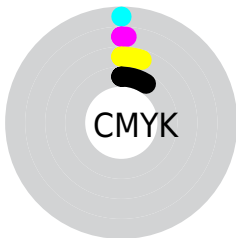
Blue (86%)



Red (88%)

Yellow (91%)

Blue (86%)

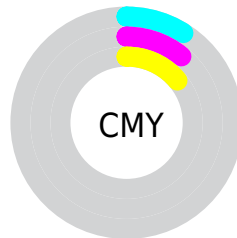


Cyan (0%)

Magenta (1%)

Yellow (5%)

Black (9%)



Cyan (9%)

Magenta (11%)

Yellow (14%)

Brightness & Saturation Gradients

These gradients show how the RYB color 224, 231, 220 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 224, 231, 220 by changing the saturation by 10% instead.

■ 224, 231, 220

255, 255, 255

■ 224, 231, 220

■ 196, 203, 192

■ 168, 175, 165

■ 143, 149, 139

■ 117, 123, 113

■ 92, 98, 89

■ 68, 74, 65

■ 46, 52, 43

■ 26, 31, 23

■ 0, 3, 1

■ 224, 231, 220

■ 224, 231, 220

■ 209, 231, 197

■ 231, 233, 243

■ 194, 231, 174

■ 231, 238, 255

■ 179, 231, 151

■ 231, 241, 255

■ 166, 231, 128

■ 231, 242, 255

■ 152, 231, 105

■ 231, 243, 255

■ 136, 231, 81

■ 121, 231, 58

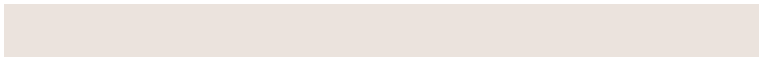
■ 106, 231, 35

■ 91, 231, 12

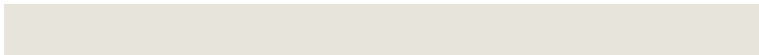
Harmonies

Analogous

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



235, 232, 221



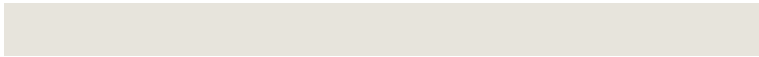
224, 231, 220



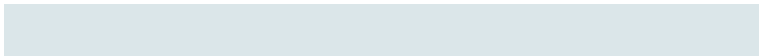
221, 229, 224

Triad

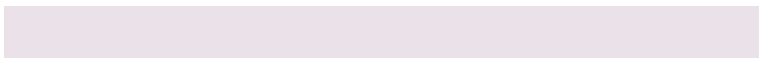
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



224, 231, 220



219, 225, 233



234, 226, 232

Complementary

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



224, 231, 220



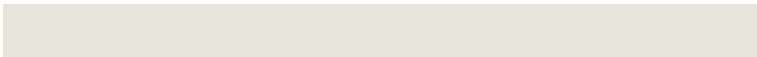
220, 222, 231

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.



230, 227, 235



224, 231, 220



221, 226, 235

Square

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



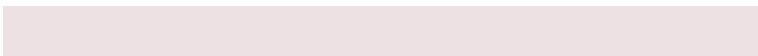
224, 231, 220



219, 226, 231



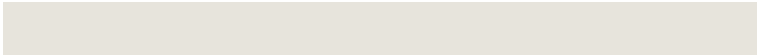
225, 227, 236



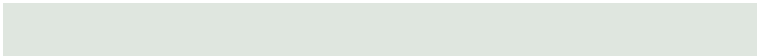
237, 225, 227

Rectangle

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



224, 231, 220



223, 230, 230



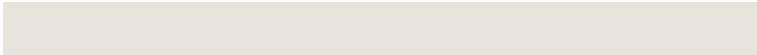
225, 227, 236



233, 226, 233

Sweetspot

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



224, 231, 220



254, 255, 252



231, 220, 223



128, 128, 126



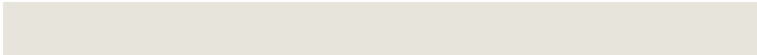
0, 0, 0



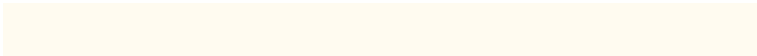
128, 128, 128

Same Dimension

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



224, 231, 220



245, 255, 240



220, 231, 222



110, 115, 107



66, 179, 0



19, 51, 0

Inverse Universe

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



220, 222, 231



240, 243, 255



222, 220, 231



107, 109, 115



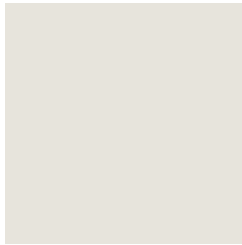
0, 38, 179



0, 11, 51

Previews

White Background



This preview shows how the RYB color 224, 231, 220 looks on a white background.

Color Contrast Check

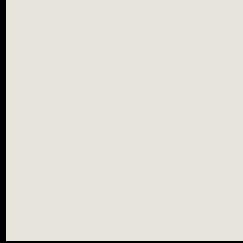
Large Text (above 18pt) WCAG AA × Fail

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 224, 231, 220 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

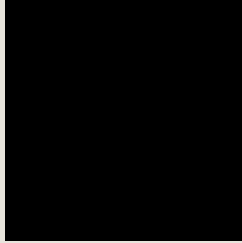
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

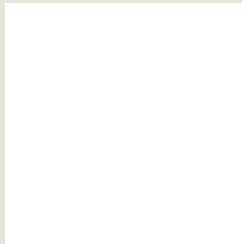
Any Text WCAG AAA ✓ Pass

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

RYB 224, 231, 220 Background



This preview shows how black text looks on a background with the RYB color 224, 231, 220.

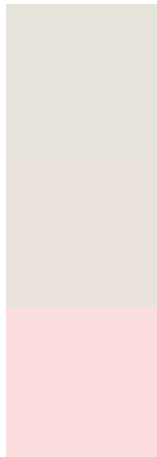


This preview shows how white text looks on a background with the RYB color 224, 231, 220.

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
224, 231, 220

Protanopia
232, 234, 219

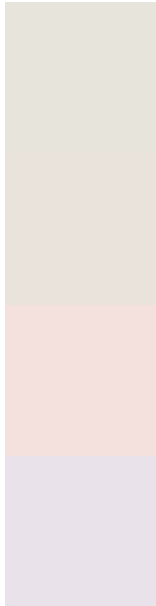
Deuteranopia
252, 221, 221



Tritanopia

234, 225, 242

Trichromacy



Original Color

224, 231, 220

Protanomaly

230, 233, 219

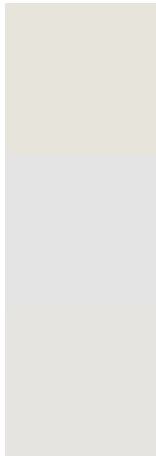
Deuteranomaly

244, 224, 221

Tritanomaly

233, 226, 234

Monochromacy



Original Color

224, 231, 220

Achromatopsia

228, 228, 228

Achromatomaly

226, 229, 225

CSS Examples

Text

The CSS property to change the color of the text to RYB 224, 231, 220 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(231, 228, 220) looks like.

```
.text, #text, p{  
    color:rgb(231, 228, 220)  
}
```

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(231, 228, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 228, 220) }
```

Border

The CSS property to change the border of an element to RYB 224, 231, 220 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(231, 228, 220) }
```

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

```
.border{ border-color:rgb(231, 228, 220) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 228, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 228, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 228, 220);  
box-shadow:4px 4px 4px 4px rgb(231, 228,  
220) }
```

Background

The CSS property to change the background color of an element to RYB 224, 231, 220 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 228, 220) }
```

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

```
.background{ background-color: rgb(231,  
228, 220) }
```

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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