

Converting Colors

`RYB(228, 226, 221)`

Have a look what the booklet for
RYB(228, 226, 221) contains.

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Color

$\text{RYB}(228, 226, 221)$

Conversions

Conversions Part 1

Format	Color
Hex	E4E0DD
RGB	228, 224, 221
RGB Percent	89%, 88%, 87%
CMY	0.1059, 0.1219, 0.1333
CMYK	0.00, 0.02, 0.03, 0.11
HSL	25°, 11%, 88%
HSV	25°, 3%, 89%
XYZ	71.6793, 74.9810, 79.1015
YIQ	224.8540, 3.3470, -0.0850

Conversions

Conversions Part 2

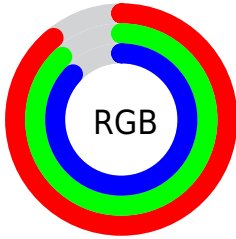
Format	Color
R_{YB}	228, 226, 221
Decimal	14999773
CIE _{Lab}	89.38, 0.87, 1.90
CIE _{LCh}	89, 2.095, 65.346
Yxy	74.9810, 0.3175, 0.3321
Android (android.graphics.Color)	4293189853 (0xFFE4E0DD)
YUV	224.8540, -1.9000, 2.7590
Hunter-Lab	86.5915, -3.7753, 6.4526

Details

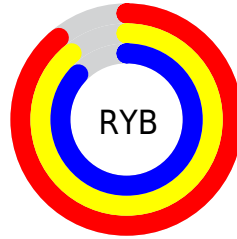
The RYB color **228, 226, 221** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **221, 224, 228**, and the grayscale version is **225, 225, 225**.

A 20% lighter version of the original color is **255, 255, 255**, and **173, 171, 166** is the 20% darker color. If you saturate the color by 10%, you get **228, 221, 198**, and if you desaturate by 10%, it is **228, 234, 244**.

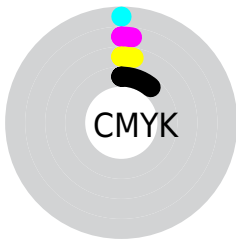
Distribution



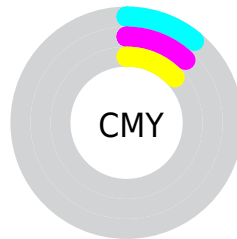
- Red (89%)
- Green (88%)
- Blue (87%)



- Red (89%)
- Yellow (89%)
- Blue (87%)



- Cyan (0%)
- Magenta (2%)
- Yellow (3%)
- Black (11%)



- Cyan (11%)
- Magenta (12%)
- Yellow (13%)

Brightness & Saturation Gradients

These gradients show how the RYB color 228, 226, 221 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, 226, 221 by changing the saturation by 10% instead.

■ 228, 226, 221

255, 255, 255

■ 228, 226, 221

■ 200, 198, 193

■ 173, 171, 166

■ 146, 143, 140

■ 120, 120, 114

■ 96, 93, 90

■ 72, 72, 66

■ 49, 47, 44

■ 29, 27, 24

■ 0, 0, 0

 228, 226, 221

 228, 226, 221

 228, 221, 198

 228, 234, 244

 228, 213, 175

 228, 240, 255


 228, 206, 153


 228, 242, 255


 228, 200, 130

 228, 192, 107

 228, 187, 84

 228, 182, 61

 228, 175, 39

 228, 166, 16

Harmonies

Analogous

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



229, 223, 222



228, 226, 221



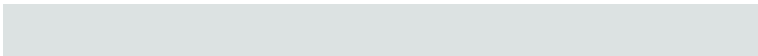
222, 226, 221

Triad

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



228, 226, 221



220, 223, 226



226, 224, 228

Complementary

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



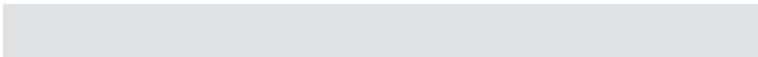
228, 226, 221



221, 224, 228

Split Complementary

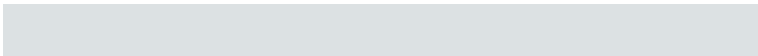
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



223, 225, 229



228, 226, 221



220, 223, 227

Square

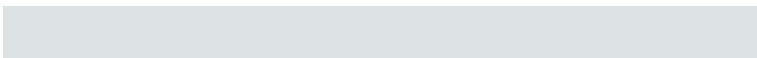
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



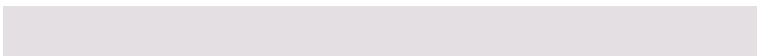
228, 226, 221



221, 225, 226



221, 224, 228



228, 223, 226

Rectangle

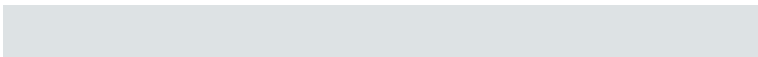
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



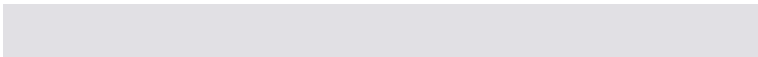
228, 226, 221



221, 225, 222



221, 224, 228



225, 224, 228

Sweetspot

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



228, 226, 221



254, 255, 252



228, 221, 225



128, 128, 126



0, 0, 0



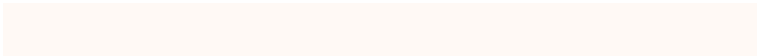
128, 128, 128

Same Dimension

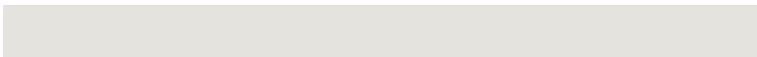
The Same Dimension uses a secret algorithm to generate beautiful new colors.



228, 226, 221



255, 252, 245



222, 228, 221



115, 112, 109



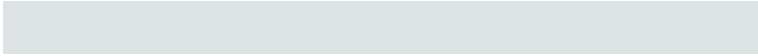
179, 126, 0



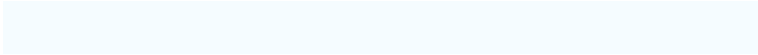
51, 36, 0

Inverse Universe

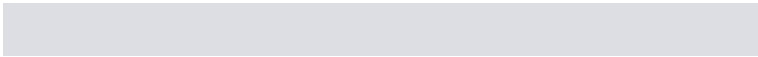
The Inverse Universe completely reimagines the original color for something new.



221, 224, 228



245, 249, 255



221, 222, 228



109, 111, 115



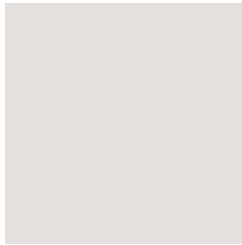
0, 66, 179



0, 19, 51

Previews

White Background



This preview shows how the RYB color 228, 226, 221 looks on a white background.

Color Contrast Check

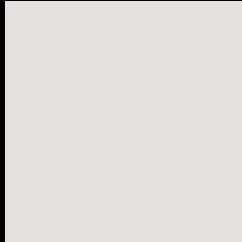
Large Text (above 18pt) WCAG AA × Fail

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, 226, 221 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

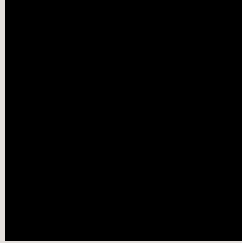
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

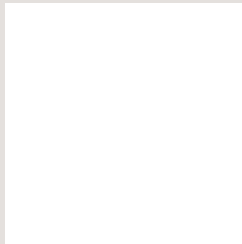
Any Text WCAG AAA ✓ Pass

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

R Y B 228, 226, 221 Background



This preview shows how black text looks on a background with the R Y B color 228, 226, 221.

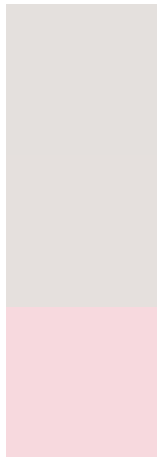


This preview shows how white text looks on a background with the R Y B color 228, 226, 221.

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
[228](#), [226](#), [221](#)

Protanopia
[229](#), [226](#), [221](#)

Deuteranopia
[247](#), [217](#), [222](#)



Tritanopia

231, 221, 239

Trichromacy



Original Color

228, 226, 221

Protanomaly

229, 226, 221

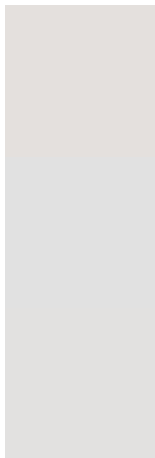
Deuteranomaly

240, 220, 222

Tritanomaly

230, 222, 232

Monochromacy



Original Color

228, 226, 221

Achromatopsia

225, 225, 225

Achromatomaly

226, 226, 224

CSS Examples

Text

The CSS property to change the color of the text to RYB 228, 226, 221 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, 224, 221) looks like.

```
.text, #text, p{  
    color:rgb(228, 224, 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(228, 224, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 224, 221) }
```

Border

The CSS property to change the border of an element to RYB 228, 226, 221 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, 224, 221) }
```

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

```
.border{ border-color:rgb(228, 224, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 224, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 224, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 224, 221);  
box-shadow:4px 4px 4px 4px rgb(228, 224,  
221) }
```

Background

The CSS property to change the background color of an element to RGB 228, 224, 221 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 224, 221) }
```

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

```
.background{ background-color: rgb(228,  
224, 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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