

Converting Colors

`RYB(228, 227, 231)`

Have a look what the booklet for
RYB(228, 227, 231) contains.

RYB(228, 227, 231)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	23
<i>Color Blindness Simulation</i>	26
<i>CSS Examples</i>	29

Color

R_YB(228, 227, 231)

Conversions

Conversions Part 1

Format	Color
Hex	E4E3E7
RGB	228, 227, 231
RGB Percent	89%, 89%, 91%
CMY	0.1059, 0.1098, 0.0941
CMYK	0.01, 0.02, 0.00, 0.09
HSL	255°, 8%, 90%
HSV	255°, 2%, 91%
XYZ	73.8878, 77.2017, 86.6084
YIQ	227.7550, -0.6880, 1.4560

Conversions

Conversions Part 2

Format	Color
R _Y B	228, 227, 231
Decimal	15000551
CIE Lab	90.41, 1.06, -1.84
CIE LCh	90, 2.120, 300.000
Yxy	77.2017, 0.3108, 0.3248
Android (android.graphics.Color)	4293190631 (0xFFE4E3E7)
YUV	227.7550, 1.5998, 0.2149
Hunter-Lab	87.8645, -3.6570, 3.0627

Details

The RYB color **228, 227, 231** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **227, 231, 228**, and the grayscale version is **228, 228, 228**.

A 20% lighter version of the original color is 255, 255, 255, and **173, 172, 175** is the 20% darker color. If you saturate the color by 10%, you get **211, 204, 231**, and if you desaturate by 10%, it is **231, 250, 236**.

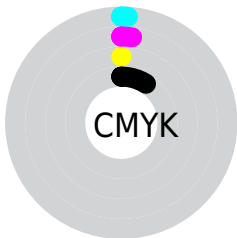
Distribution



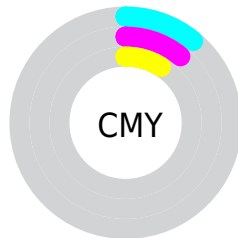
- Red (89%)
- Green (89%)
- Blue (91%)



- Red (89%)
- Yellow (89%)
- Blue (91%)



- Cyan (1%)
- Magenta (2%)
- Yellow (0%)
- Black (9%)



- Cyan (11%)
- Magenta (11%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the RYB color 228, 227, 231 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, 227, 231 by changing the saturation by 10% instead.

■ 228, 227, 231

255, 255, 255

■ 228, 227, 231

■ 200, 199, 203

■ 173, 172, 175

■ 146, 145, 149

■ 120, 120, 123

■ 96, 95, 98

■ 72, 71, 74

■ 50, 49, 52

■ 29, 28, 31

■ 2, 1, 6

■ 228, 227, 231

■ 228, 227, 231

■ 211, 204, 231

■ 231, 250, 236

■ 193, 181, 231

■ 231, 255, 231

■ 176, 158, 231

■ 159, 135, 231

■ 141, 111, 231

■ 124, 88, 231

■ 107, 65, 231

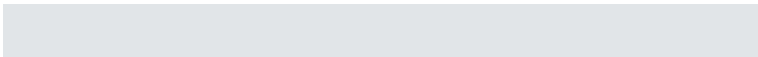
■ 89, 42, 231

■ 72, 19, 231

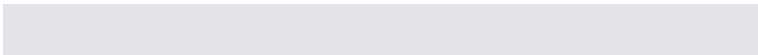
Harmonies

Analogous

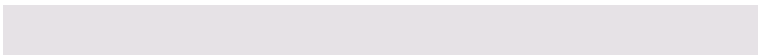
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



226, 228, 232



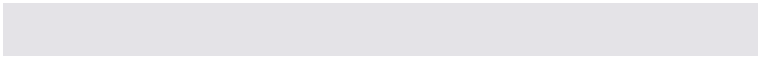
228, 227, 231



230, 226, 230

Triad

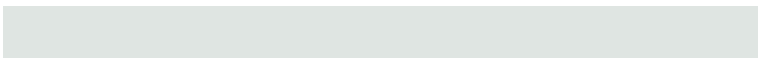
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



228, 227, 231



231, 229, 224



223, 227, 229

Complementary

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



228, 227, 231



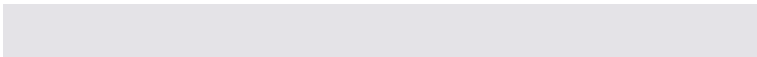
227, 231, 228

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.



225, 229, 229



228, 227, 231



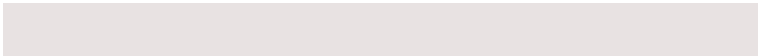
226, 229, 223

Square

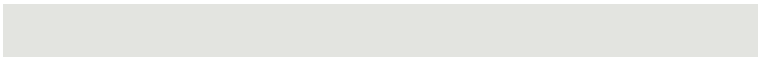
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



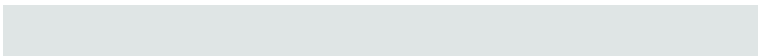
228, 227, 231



232, 226, 226



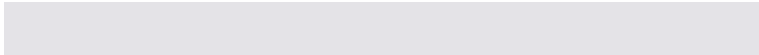
224, 228, 225



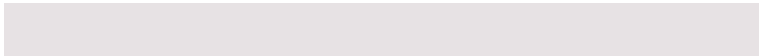
223, 226, 229

Rectangle

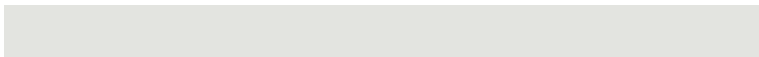
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



228, 227, 231



231, 226, 228



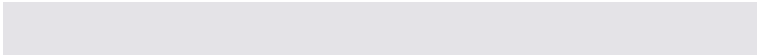
224, 228, 225



224, 227, 229

Sweetspot

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



228, 227, 231



253, 252, 255



227, 229, 231



127, 126, 128



0, 0, 0



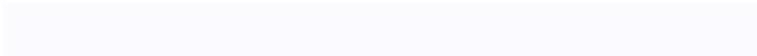
128, 128, 128

Same Dimension

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



228, 227, 231



251, 250, 255



230, 227, 231



113, 112, 115



45, 0, 179



13, 0, 51

Inverse Universe

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



231, 227, 230



255, 250, 254



227, 231, 230



115, 112, 114



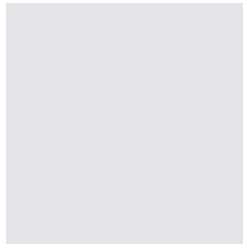
179, 0, 134



51, 0, 38

Previews

White Background



This preview shows how the RYB color 228, 227, 231 looks on a white background.

Color Contrast Check

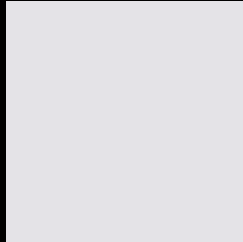
Large Text (above 18pt) WCAG AA × Fail

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, 227, 231 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

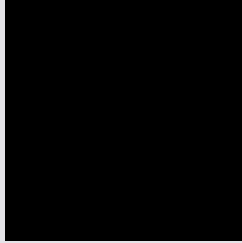
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

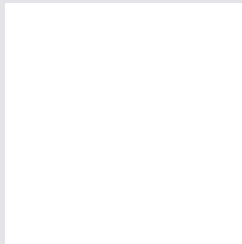
Any Text WCAG AAA ✓ Pass

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

RYB 228, 227, 231 Background



This preview shows how black text looks on a background with the RYB color 228, 227, 231.

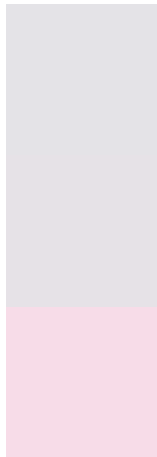


This preview shows how white text looks on a background with the RYB color 228, 227, 231.

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, 227, 231

Protanopia
230, 226, 231

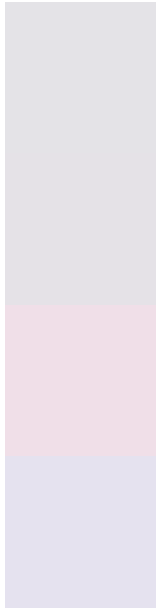
Deuteranopia
247, 220, 232



Tritanopia

230, 225, 243

Trichromacy



Original Color

228, 227, 231

Protanomaly

229, 226, 231

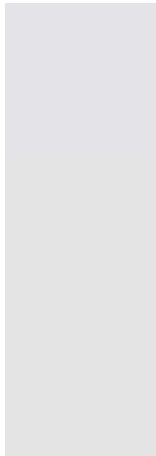
Deuteranomaly

240, 223, 232

Tritanomaly

229, 226, 239

Monochromacy



Original Color

228, 227, 231

Achromatopsia

228, 228, 228

Achromatomaly

228, 228, 229

CSS Examples

Text

The CSS property to change the color of the text to RYB 228, 227, 231 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, 227, 231) looks like.

```
.text, #text, p{  
    color:rgb(228, 227, 231)  
}
```

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, 227, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 227, 231) }
```

Border

The CSS property to change the border of an element to RYB 228, 227, 231 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, 227, 231) }
```

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

```
.border{ border-color:rgb(228, 227, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 227, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 227, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 227, 231);  
box-shadow:4px 4px 4px 4px rgb(228, 227,  
231) }
```

Background

The CSS property to change the background color of an element to RYB 228, 227, 231 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 227, 231) }
```

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

```
.background{ background-color: rgb(228,  
227, 231) }
```

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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