

Converting Colors

Hex(231D21)

Have a look what the booklet for
Hex(231D21) contains.

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Color

Hex(231D21)

Conversions

Conversions Part 1

Format	Color
Hex	231D21
RGB	35, 29, 33
RGB Percent	14%, 11%, 13%
CMY	0.8627, 0.8863, 0.8706
CMYK	0.00, 0.17, 0.06, 0.86
HSL	320°, 9%, 13%
HSV	320°, 17%, 14%
XYZ	1.4070, 1.3459, 1.6245
YIQ	31.2500, 2.2920, 2.5160

Conversions

Conversions Part 2

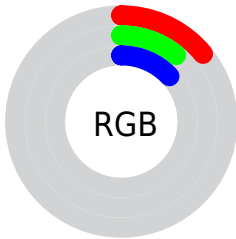
Format	Color
RYB	35, 29, 33
Decimal	2301217
CIELab	11.59, 3.84, -1.66
CIELCh	12, 4.181, 336.571
Yxy	1.3459, 0.3214, 0.3075
Android (android.graphics.Color)	4280491297 (0xFF231D21)
YUV	31.2500, 0.8628, 3.2887
Hunter-Lab	11.6011, 1.3470, -0.1814

Details

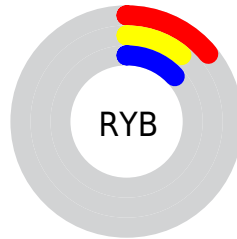
The Hex color **231D21** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **1D231F**, and the grayscale version is **1F1F1F**.

A 20% lighter version of the original color is **4F484D**, and **000000** is the 20% darker color. If you saturate the color by 10%, you get **231920**, and if you desaturate by 10%, it is **232122**.

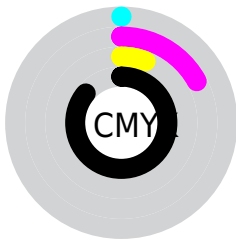
Distribution



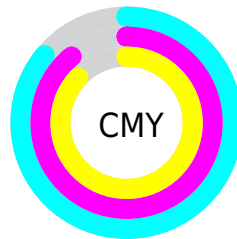
- Red (14%)
- Green (11%)
- Blue (13%)



- Red (14%)
- Yellow (11%)
- Blue (13%)



- Cyan (0%)
- Magenta (17%)
- Yellow (6%)
- Black (86%)



- Cyan (86%)
- Magenta (89%)
- Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the Hex color 231D21 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 Hex color 231D21 by changing the saturation by 10% instead.

■ 231D21

■ 231D21

FFFFFF

■ 0E030A

■ 4F484D

■ 000000

■ 676065

■ 80797E

■ 9A9398

■ B5ADB2

■ D1C9CE

■ EDE5EA

■ 231D21

■ 231D21

■ 231920

■ 232122

■ 23161F

■ 232423

■ 23121E

■ 232825

■ 230F1C

■ 232B26

■ 230C1B

■ 232F27

■ 23081A

■ 233228

■ 230419

■ 233629

■ 230118

■ 23392A

■ 230017

■ 233D2B

Harmonies

Analogous

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



201E23



231D21



251D1E

Triad

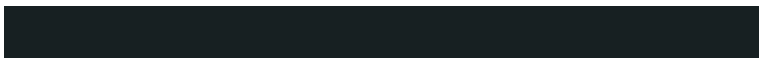
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



231D21



201F19



172022

Complementary

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



231D21



1D231F

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.



18201F



231D21



1D201A

Square

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



231D21



231E1A



1A201C



192024

Rectangle

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



231D21



251D1C



1A201C



172021

Sweetspot

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



231D21



2E2C2D



1F1D23



171616



969696



171717

Same Dimension

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



231D21



2E242B



231D1E



121011



520036



D1008B

Inverse Universe

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



231D21



2E242B



1D2322



121011



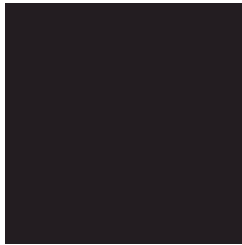
520036



D1008B

Previews

White Background



This preview shows how the Hex color 231D21 looks on a white background.

Color Contrast Check

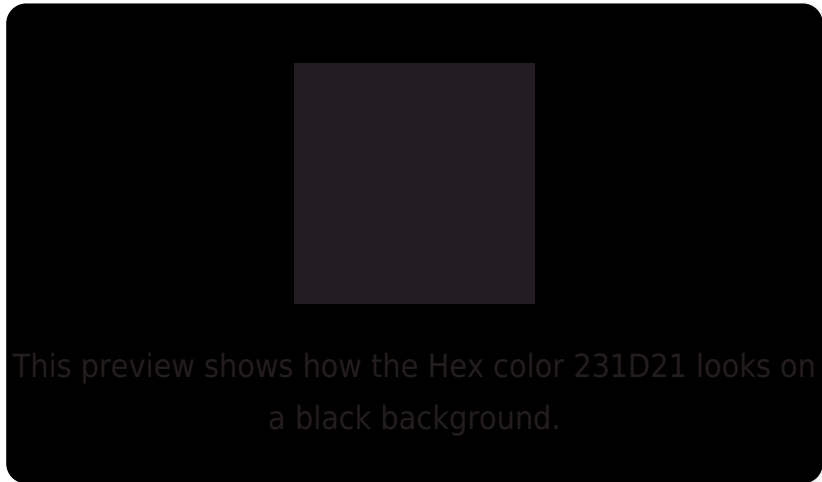
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

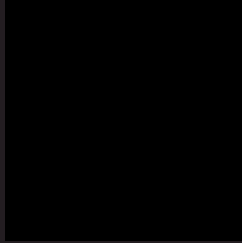
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Hex 231D21 Background



This preview shows how black text looks on a background with the Hex color 231D21.



This preview shows how white text looks on a background with the Hex color 231D21.

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
231D21

Protanopia
1E1F22

Deuteranopia
211E21

Trichromacy



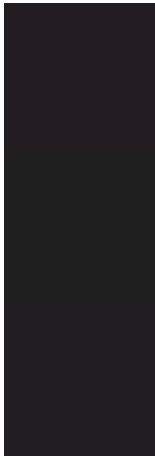
Original Color
231D21

Protanomaly
201E22

Deuteranomaly
221E21

Tritanomaly
231D20

Monochromacy



Original Color
231D21

Achromatopsia
1F1F1F

Achromatomaly
201E20

CSS Examples

Text

The CSS property to change the color of the text to Hex 231D21 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 #231D21 looks like.

```
.text, #text, p{  
    color:#231D21  
}
```

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 #231D21 colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #231D21
}
```

Border

The CSS property to change the border of an element to Hex 231D21 is called "border". The border property can be set on classes, ids or directly on the HTML element.

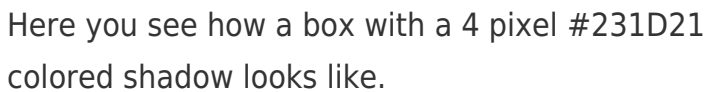
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid
#231D21 }
```

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

```
.border{ border-color:#231D21 }
```

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



Here you see how a box with a 4 pixel #231D21 colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #231D21; -webkit-box-shadow:4px 4px  
4px 4px #231D21; box-shadow:4px 4px 4px  
4px #231D21 }
```

Background

The CSS property to change the background color of an element to Hex 231D21 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#231D21 }
```

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

```
.background{ background-color:#231D21 }
```

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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