

# Converting Colors

Hex(231F1F)

Have a look what the booklet for  
Hex(231F1F) contains.

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# Color

Hex(231F1F)

# Conversions

## Conversions Part 1

Format	Color
Hex	231F1F
RGB	35, 31, 31
RGB Percent	14%, 12%, 12%
CMY	0.8627, 0.8784, 0.8784
CMYK	0.00, 0.11, 0.11, 0.86
HSL	0°, 6%, 13%
HSV	0°, 11%, 14%
XYZ	1.4304, 1.4362, 1.4982
YIQ	32.1960, 2.3840, 0.8480

# Conversions

## Conversions Part 2

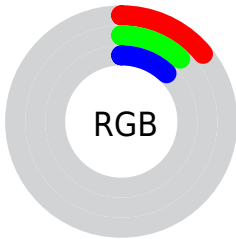
Format	Color
<a href="#">RYB</a>	<a href="#">35, 31, 31</a>
Decimal	<a href="#">2301727</a>
CIELab	<a href="#">12.20, 1.91, 0.69</a>
CIELCh	<a href="#">12, 2.030, 19.871</a>
Yxy	<a href="#">1.4362, 0.3277, 0.3290</a>
Android (android.graphics.Color)	<a href="#">4280491807 (0xFF231F1F)</a>
YUV	<a href="#">32.1960, -0.5896, 2.4591</a>
Hunter-Lab	<a href="#">11.9843, 0.3333, 0.9772</a>

# Details

The Hex color **231F1F** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **1F2323**, and the grayscale version is **202020**.

A 20% lighter version of the original color is **4F4B4B**, and **000000** is the 20% darker color. If you saturate the color by 10%, you get **231B1B**, and if you desaturate by 10%, it is **232323**.

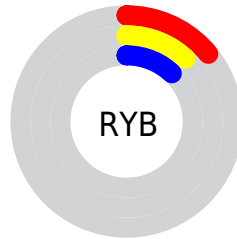
# Distribution



Red (14%)

Green (12%)

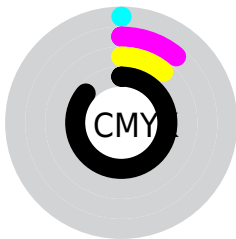
Blue (12%)



Red (14%)

Yellow (12%)

Blue (12%)

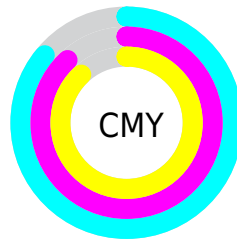


Cyan (0%)

Magenta (11%)

Yellow (11%)

Black (86%)



Cyan (86%)

Magenta (88%)

Yellow (88%)

# Brightness & Saturation Gradients

These gradients show how the Hex color 231F1F 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 231F1F by changing the saturation by 10% instead.



■ 231F1F

■ 231F1F

FFFFFF

■ 0D0606

■ 4F4B4B

■ 000000

■ 676362

■ 807B7B

■ 9A9595

■ B5B0B0

■ D1CBCB

■ EDE7E7

■ 231F1F

■ 231F1F

■ 231B1B

■ 232323

■ 231818

■ 232626

■ 231414

■ 232929

■ 231111

■ 232D2D

■ 230E0E

■ 233131

■ 230A0A

■ 233434

■ 230606

■ 233838

■ 230303

■ 233B3B

■ 230000

■ 233F3F

# Harmonies

## Analogous

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



231F20



231F1F



231F1E

# Triad

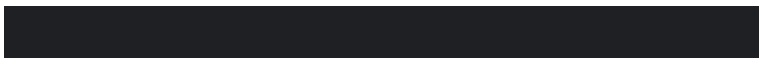
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



231F1F



1E201E



1E2023

# Complementary

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



231F1F



1F2323

# 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.



1D2122



231F1F



1D211F

# Square

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



231F1F



20201D



1D2121



202022

# Rectangle

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



231F1F



221F1D



1D2121



1E2022



# Sweetspot

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



231F1F



2E2D2D



231F23



171616



969696



171717



# Same Dimension

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



231F1F



2E2727



23211F



121010



520000



D10000



# Inverse Universe

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



1F2323



272E2E



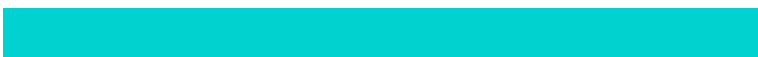
1F2123



101212



005252



00D1D1



# Previews

## White Background



This preview shows how the Hex color 231F1F looks on a white background.

## Color Contrast Check

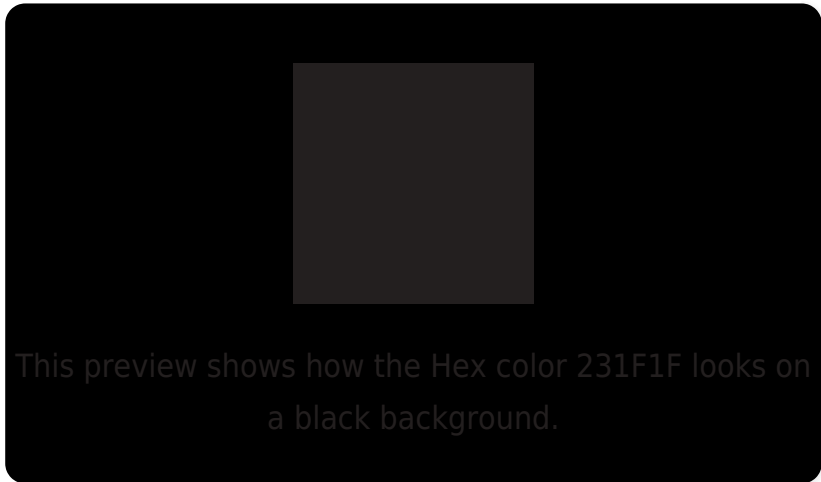
Large Text (above 18pt) WCAG AA ✓ Pass

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

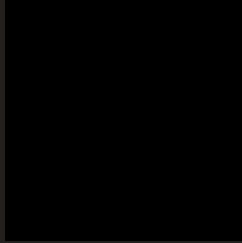
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

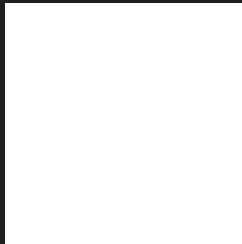
If you want to check with other color combinations, try the [Color Contrast Checker](#).



## Hex 231F1F Background



This preview shows how black text looks on a background with the Hex color 231F1F.

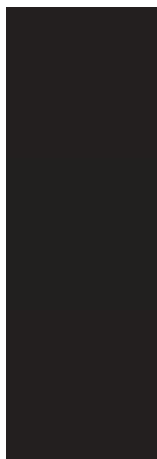


This preview shows how white text looks on a background with the Hex color 231F1F.

# 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**

231F1F

**Protanopia**

21201F

**Deuteranopia**

231F1F



**Tritanopia**  
231F21

# Trichromacy



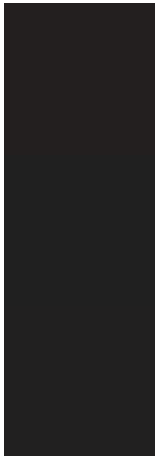
**Original Color**  
231F1F

**Protanomaly**  
22201F

**Deuteranomaly**  
231F1F

**Tritanomaly**  
231F20

# Monochromacy



**Original Color**  
231F1F

**Achromatopsia**  
202020

**Achromatomaly**  
212020

# CSS Examples

## Text

The CSS property to change the color of the text to Hex 231F1F 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 #231F1F looks like.

```
.text, #text, p{  
    color:#231F1F  
}
```

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 #231F1F colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #231F1F
}
```

## Border

The CSS property to change the border of an element to Hex 231F1F is called "border". The border property can be set on classes, ids or directly on the HTML element.

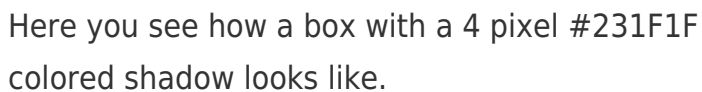
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid
#231F1F }
```

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

```
.border{ border-color:#231F1F }
```

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



Here you see how a box with a 4 pixel #231F1F colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #231F1F; -webkit-box-shadow:4px 4px  
4px 4px #231F1F; box-shadow:4px 4px 4px  
4px #231F1F }
```

# Background

The CSS property to change the background color of an element to Hex 231F1F is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#231F1F }
```

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

```
.background{ background-color:#231F1F }
```

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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