

# Converting Colors

Hex(31311C)

Have a look what the booklet for  
Hex(31311C) contains.

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# Color

Hex(31311C)

# Conversions

## Conversions Part 1

Format	Color
Hex	31311C
RGB	49, 49, 28
RGB Percent	19%, 19%, 11%
CMY	0.8078, 0.8078, 0.8902
CMYK	0.00, 0.00, 0.43, 0.81
HSL	60°, 27%, 15%
HSV	60°, 43%, 19%
XYZ	2.5745, 2.9334, 1.5291
YIQ	46.6060, 6.7410, -6.5310

# Conversions

## Conversions Part 2

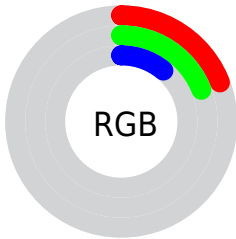
<b>Format</b>	<b>Color</b>
<b>RYB</b>	28, 49, 28
Decimal	3223836
CIELab	19.78, -4.04, 13.43
CIElCh	20, 14.024, 106.756
Yxy	2.9334, 0.3659, 0.4169
Android (android.graphics.Color)	4281413916 (0xFF31311C)
YUV	46.6060, -9.1728, 2.0995
Hunter-Lab	17.1273, -3.1410, 6.6957

# Details

The Hex color **31311C** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **1C1C31**, and the grayscale version is **2F2F2F**.

A 20% lighter version of the original color is **605F48**, and **000000** is the 20% darker color. If you saturate the color by 10%, you get **313117**, and if you desaturate by 10%, it is **313121**.

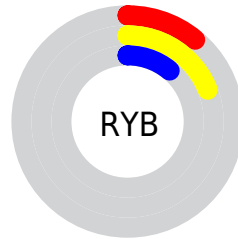
# Distribution



Red (19%)

Green (19%)

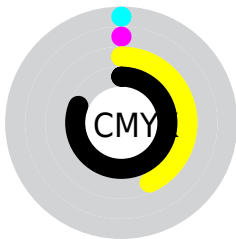
Blue (11%)



Red (11%)

Yellow (19%)

Blue (11%)

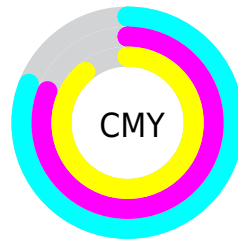


Cyan (0%)

Magenta (0%)

Yellow (43%)

Black (81%)



Cyan (81%)

Magenta (81%)

Yellow (89%)

# Brightness & Saturation Gradients

These gradients show how the Hex color 31311C 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 31311C by changing the saturation by 10% instead.



■ 31311C

■ 31311C

FFFFFF

■ 1D1C03

■ 605F48

■ 000000

■ 797860

■ 929178

■ ADAC92

■ C9C7AD

■ E5E3C8

■ FFFFE4

■ 31311C

■ 31311C

■ 313117

■ 313121

■ 313112

■ 313126

■ 31310D

■ 31312B

■ 313108

■ 313130

■ 313103

■ 313135

■ 313100

■ 313139

■ 31313E

■ 313143

■ 313148

# Harmonies

## Analogous

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



3B2E1C



31311C



253421

# Triad

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



31311C



0D343E



412935

# Complementary

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



31311C



1C1C31

# 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.



382B3E



31311C



1B3244

# Square

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



31311C



0E3535



2B2F43



44282A

# Rectangle

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



31311C



1D3527



2B2F43



3F2938



# Sweetspot

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



31311C



404037



311C1C



21211C



A1A1A1



212121



# Same Dimension

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



31311C



40401F



27311C



1A1A17



595900



D9D900



# Inverse Universe

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



1C1C31



1F1F40



271C31



17171A



000059



0000D9



# Previews

## White Background



This preview shows how the Hex color 31311C looks on a white background.

## Color Contrast Check

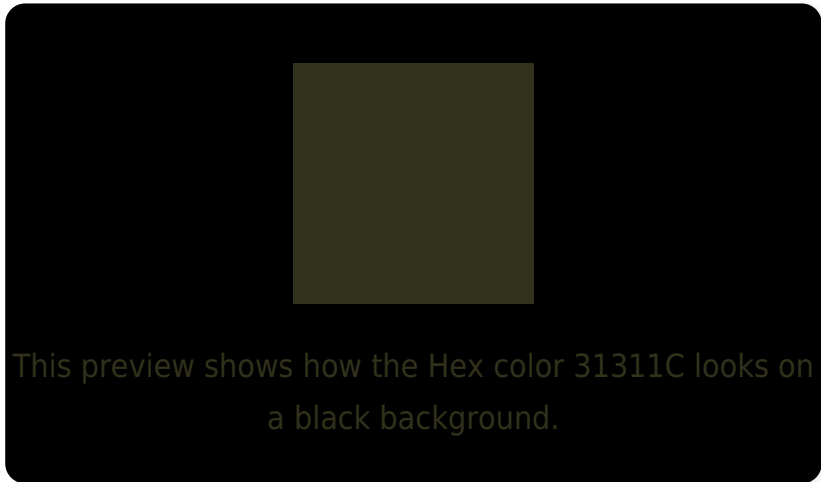
Large Text (above 18pt) WCAG AA ✓ Pass

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

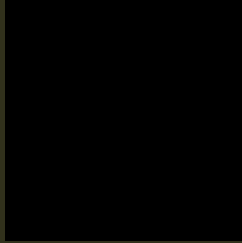
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

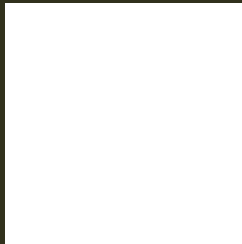
If you want to check with other color combinations, try the [Color Contrast Checker](#).



## Hex 31311C Background



This preview shows how black text looks on a background with the Hex color 31311C.

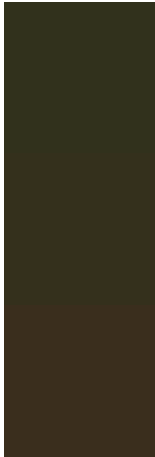


This preview shows how white text looks on a background with the Hex color 31311C.

# 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**  
31311C

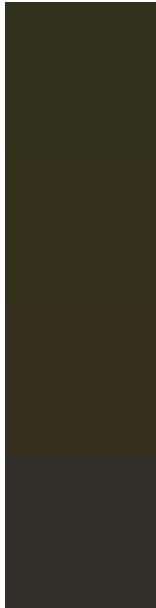
**Protanopia**  
34301C

**Deuteranopia**  
3A2E1D



**Tritanopia**  
332E32

# Trichromacy



**Original Color**  
31311C

**Protanomaly**  
33301C

**Deuteranomaly**  
372F1D

**Tritanomaly**  
322F2A

# Monochromacy



**Original Color**  
31311C

**Achromatopsia**  
2F2F2F

**Achromatomaly**  
303028

# CSS Examples

## Text

The CSS property to change the color of the text to Hex 31311C 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 #31311C looks like.

```
.text, #text, p{  
    color:#31311C  
}
```

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 #31311C colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #31311C
}
```

## Border

The CSS property to change the border of an element to Hex 31311C is called "border". The border property can be set on classes, ids or directly on the HTML element.

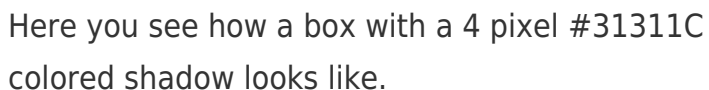
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid
#31311C }
```

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

```
.border{ border-color:#31311C }
```

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



Here you see how a box with a 4 pixel #31311C colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #31311C; -webkit-box-shadow:4px 4px  
4px 4px #31311C; box-shadow:4px 4px 4px  
4px #31311C }
```

# Background

The CSS property to change the background color of an element to Hex 31311C is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#31311C }
```

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

```
.background{ background-color:#31311C }
```

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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