

# Converting Colors

Hex(28301B)

Have a look what the booklet for  
Hex(28301B) contains.

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# Color

**Hex(28301B)**

# Conversions

## Conversions Part 1

Format	Color
Hex	28301B
RGB	40, 48, 27
RGB Percent	16%, 19%, 11%
CMY	0.8431, 0.8118, 0.8941
CMYK	0.17, 0.00, 0.44, 0.81
HSL	83°, 28%, 15%
HSV	83°, 44%, 19%
XYZ	2.1299, 2.6442, 1.4350
YIQ	43.2140, 1.9730, -8.2270

# Conversions

## Conversions Part 2

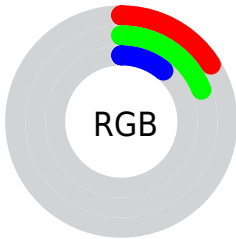
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	27, 48, 35
Decimal	2633755
CIE <sub>Lab</sub>	18.56, -7.99, 12.34
CIE <sub>LCh</sub>	19, 14.705, 122.936
Yxy	2.6442, 0.3430, 0.4259
Android (android.graphics.Color)	4280823835 (0xFF28301B)
YUV	43.2140, -7.9935, -2.8187
Hunter-Lab	16.2609, -5.0765, 6.1502

# Details

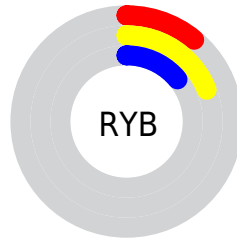
The Hex color **28301B** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **231B30**, and the grayscale version is **2B2B2B**.

A 20% lighter version of the original color is **555E47**, and **000000** is the 20% darker color. If you saturate the color by 10%, you get **263016**, and if you desaturate by 10%, it is **2A3020**.

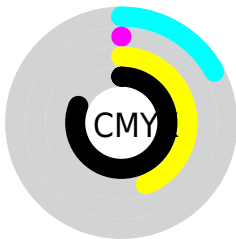
# Distribution



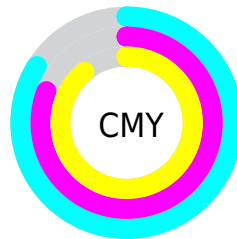
- Red (16%)
- Green (19%)
- Blue (11%)



- Red (11%)
- Yellow (19%)
- Blue (14%)



- Cyan (17%)
- Magenta (0%)
- Yellow (44%)
- Black (81%)



- Cyan (84%)
- Magenta (81%)
- Yellow (89%)

# Brightness & Saturation Gradients

These gradients show how the Hex color 28301B 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 28301B by changing the saturation by 10% instead.



 28301B

 28301B

FFFFFF

 151B01

 555E47

 000000

 6E775E

 879077

 A2AB91

 BDC6AB

 D9E2C7

 F5FFE3

 28301B

 28301B

■ 263016

■ 2A3020

■ 243011

■ 2C3025

■ 23300D

■ 2D3029

■ 213008

■ 2F302E

■ 1F3003

■ 313033

■ 1E3000

■ 333038

■ 35303D

■ 373041

■ 383046

# Harmonies

## Analogous

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



332D18



28301B



1B3223

# Triad

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



28301B



0E3140



41252D

# Complementary

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



28301B



231B30

# 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.



3C2737



28301B



202E42

# Square

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



28301B



043338



302A3F



412622

# Rectangle

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



28301B



12332A



302A3F



402530



# Sweetspot

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



28301B



3A3D35



30231B



1D1F1A



9E9E9E



1F1F1F



# Same Dimension

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



28301B



313D1D



1E301B



161715



365700



85D600



# Inverse Universe

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



231B30



291D3D



2D1B30



161517



210057

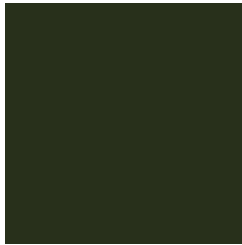


5200D6



# Previews

## White Background



This preview shows how the Hex color 28301B looks on a white background.

## Color Contrast Check

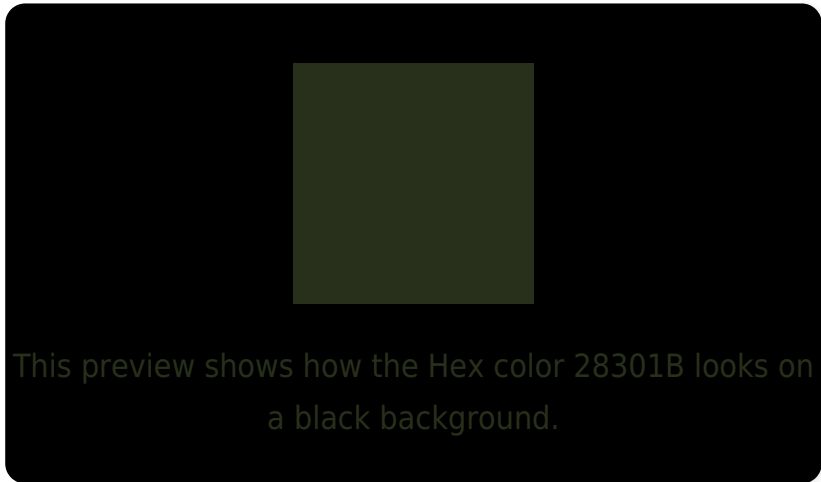
Large Text (above 18pt) WCAG AA ✓ Pass

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

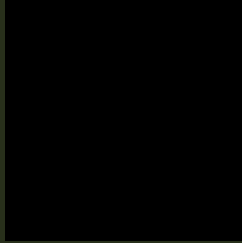
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## Hex 28301B Background



This preview shows how black text looks on a background with the Hex color 28301B.

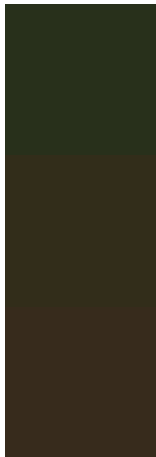


This preview shows how white text looks on a background with the Hex color 28301B.

# 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**  
28301B

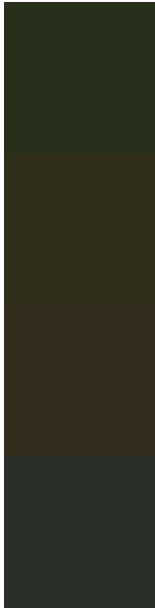
**Protanopia**  
322D1A

**Deuteranopia**  
372B1C



**Tritanopia**  
2B2D31

# Trichromacy



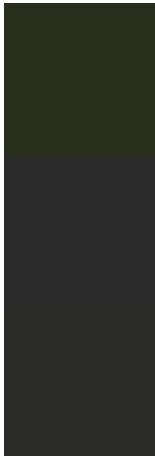
**Original Color**  
28301B

**Protanomaly**  
2E2E1A

**Deuteranomaly**  
322D1C

**Tritanomaly**  
2A2E29

# Monochromacy



**Original Color**  
28301B

**Achromatopsia**  
2B2B2B

**Achromatomaly**  
2A2D25

# CSS Examples

## Text

The CSS property to change the color of the text to Hex 28301B 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 #28301B looks like.

```
.text, #text, p{  
    color:#28301B  
}
```

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 #28301B colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #28301B
}
```

## Border

The CSS property to change the border of an element to Hex 28301B 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".

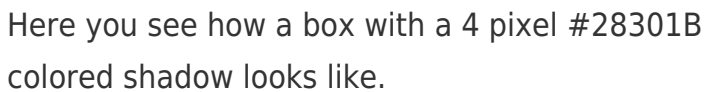
```
.border, #border, table{ border:4px solid
#28301B }
```

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

```
.border{ border-color:#28301B }
```

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

Here you see how a box with a 4 pixel #28301B colored shadow looks like.

A rectangular box with a dark blue border and a dark blue shadow. The box is white with a thin dark blue border and a thicker dark blue shadow on the right and bottom sides.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #28301B; -webkit-box-shadow:4px 4px  
4px 4px #28301B; box-shadow:4px 4px 4px  
4px #28301B }
```

# Background

The CSS property to change the background color of an element to Hex 28301B is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#28301B }
```

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

```
.background{ background-color:#28301B }
```

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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