

# Converting Colors

Hex(313111)

Have a look what the booklet for  
Hex(313111) contains.

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# Color

**Hex(313111)**

# Conversions

## Conversions Part 1

| Format      | Color                     |
|-------------|---------------------------|
| Hex         | 313111                    |
| RGB         | 49, 49, 17                |
| RGB Percent | 19%, 19%, 7%              |
| CMY         | 0.8078, 0.8078, 0.9333    |
| CMYK        | 0.00, 0.00, 0.65, 0.81    |
| HSL         | 60°, 48%, 13%             |
| HSV         | 60°, 65%, 19%             |
| XYZ         | 2.4661, 2.8901, 0.9582    |
| YIQ         | 45.3520, 10.2720, -9.9520 |

# Conversions

## Conversions Part 2

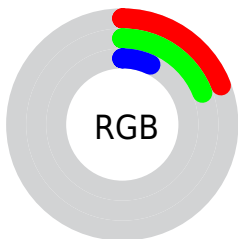
| <b>Format</b>                       | <b>Color</b>                 |
|-------------------------------------|------------------------------|
| <b>R<sub>YB</sub></b>               | 17, 49, 17                   |
| Decimal                             | 3223825                      |
| CIE <sub>Lab</sub>                  | 19.60, -5.42, 20.08          |
| CIE <sub>LCh</sub>                  | 20, 20.803, 105.095          |
| Yxy                                 | 2.8901, 0.3906,<br>0.4577    |
| Android<br>(android.graphics.Color) | 4281413905<br>(0xFF313111)   |
| YUV                                 | 45.3520, -13.9775,<br>3.1993 |
| Hunter-Lab                          | 17.0002, -3.8564,<br>8.5584  |

# Details

The Hex color **313111** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **111131**, and the grayscale version is **2D2D2D**.

A 20% lighter version of the original color is **605F3C**, and **000000** is the 20% darker color. If you saturate the color by 10%, you get **31310C**, and if you desaturate by 10%, it is **313116**.

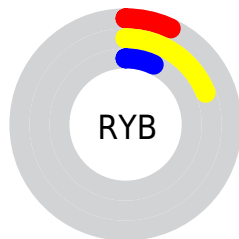
# Distribution



Red (19%)

Green (19%)

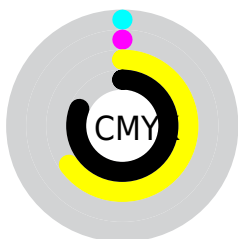
Blue (7%)



Red (7%)

Yellow (19%)

Blue (7%)

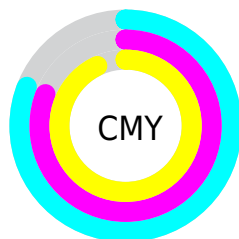


Cyan (0%)

Magenta (0%)

Yellow (65%)

Black (81%)



Cyan (81%)

Magenta (81%)


Yellow (93%)

# Brightness & Saturation Gradients

These gradients show how the Hex color 313111 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 313111 by changing the saturation by 10% instead.



 313111

 313111

 FFFFF3

 1C1C00

 605F3C

 000000

 7A7854


 94916C

 AEAC86

 CAC7A0

 E6E3BB

 FFFFD7

 313111

 313111

■ 31310C

■ 313116

■ 313107

■ 31311B

■ 313102

■ 313120

■ 313100

■ 313125

■ 31312A

■ 31312E

■ 313133

■ 313138

■ 31313D

# Harmonies

## Analogous

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



3F2C12



313111



203519

# Triad

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



313111



003645



482438

# Complementary

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



313111



111131

# 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.



3A2845



313111



00334D

# Square

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



313111



003737



242E4D



4C2328

# Rectangle

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



313111



113622



242E4D



44253C



# Sweetspot

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



313111



404033



311111



212119



A1A1A1



212121



# Same Dimension

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



313111



40400E



213111



1A1A17



595900



D9D900



# Inverse Universe

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



111131



0E0E40



211131



17171A



000059



0000D9



# Previews

## White Background



This preview shows how the Hex color 313111 looks on a white background.

## Color Contrast Check

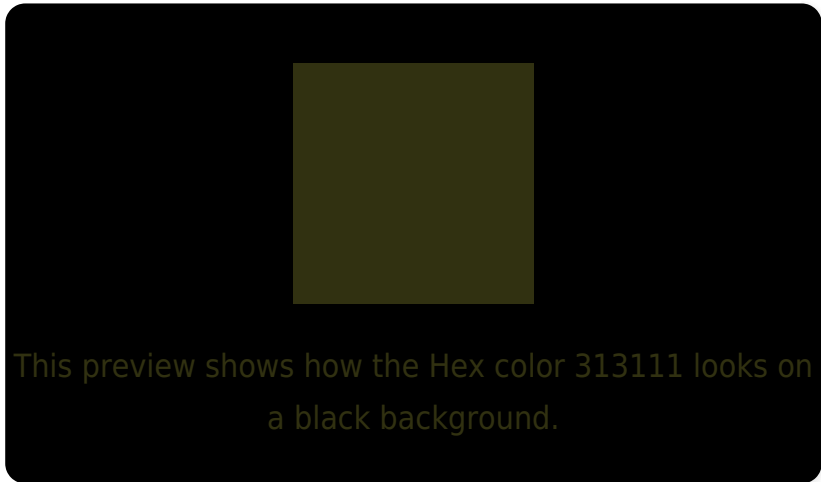
Large Text (above 18pt) WCAG AA ✓ Pass

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

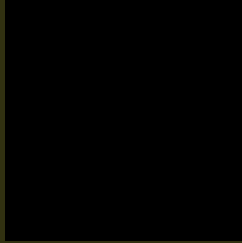
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## Hex 313111 Background



This preview shows how black text looks on a background with the Hex color 313111.

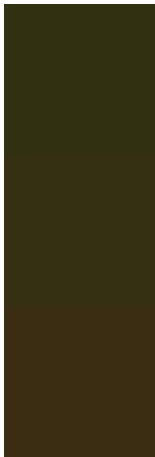


This preview shows how white text looks on a background with the Hex color 313111.

# 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**  
313111

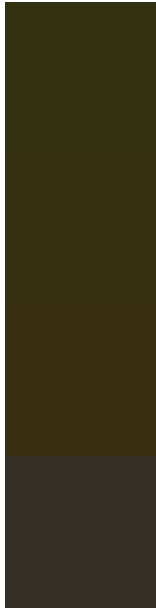
**Protanopia**  
353011

**Deuteranopia**  
3B2D12



**Tritanopia**  
342E31

# Trichromacy



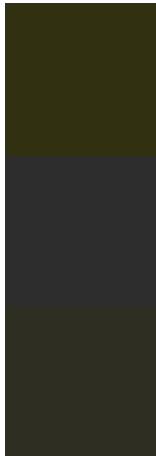
**Original Color**  
313111

**Protanomaly**  
343011

**Deuteranomaly**  
372E12

**Tritanomaly**  
332F25

# Monochromacy



**Original Color**  
313111

**Achromatopsia**  
2D2D2D

**Achromatomaly**  
2E2E23

# CSS Examples

## Text

The CSS property to change the color of the text to Hex 313111 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 #313111 looks like.

```
.text, #text, p{  
    color:#313111  
}
```

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 #313111 colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #313111
}
```

## Border

The CSS property to change the border of an element to Hex 313111 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
#313111 }
```

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

```
.border{ border-color:#313111 }
```

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

Here you see how a box with a 4 pixel #313111 colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #313111; -webkit-box-shadow:4px 4px  
4px 4px #313111; box-shadow:4px 4px 4px  
4px #313111 }
```

# Background

The CSS property to change the background color of an element to Hex 313111 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#313111 }
```

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

```
.background{ background-color:#313111 }
```

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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