

# Converting Colors

Hex(233B23)

Have a look what the booklet for  
Hex(233B23) contains.

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# Color

**Hex(233B23)**

# Conversions

## Conversions Part 1

Format	Color
Hex	233B23
RGB	35, 59, 35
RGB Percent	14%, 23%, 14%
CMY	0.8627, 0.7686, 0.8627
CMYK	0.41, 0.00, 0.41, 0.77
HSL	120°, 26%, 18%
HSV	120°, 41%, 23%
XYZ	2.5605, 3.6066, 2.1513
YIQ	49.0880, -6.6000, -12.5520

# Conversions

## Conversions Part 2

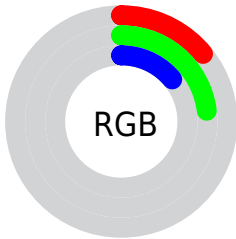
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	35, 59, 59
Decimal	2308899
CIE Lab	22.33, -15.31, 12.01
CIE LCh	22, 19.459, 141.887
Yxy	3.6066, 0.3078, 0.4336
Android (android.graphics.Color)	4280498979 (0xFF233B23)
YUV	49.0880, -6.9454, -12.3552
Hunter-Lab	18.9911, -9.1681, 6.5774

# Details

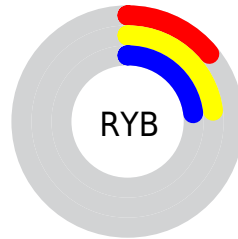
The Hex color **233B23** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **3B233B**, and the grayscale version is **313131**.

A 20% lighter version of the original color is **516A50**, and **000F00** is the 20% darker color. If you saturate the color by 10%, you get **1D3B1D**, and if you desaturate by 10%, it is **293B29**.

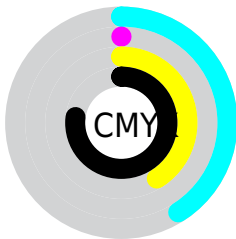
# Distribution



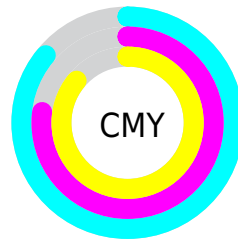
- Red (14%)
- Green (23%)
- Blue (14%)



- Red (14%)
- Yellow (23%)
- Blue (23%)



- Cyan (41%)
- Magenta (0%)
- Yellow (41%)
- Black (77%)



- Cyan (86%)
- Magenta (77%)
- Yellow (86%)

# Brightness & Saturation Gradients

These gradients show how the Hex color 233B23 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 233B23 by changing the saturation by 10% instead.



■ 233B23

■ 233B23

FFFFFF

■ 0E250E

■ 516A50

■ 000F00

■ 698468

■ 000000

■ 839E81

■ 9DB99B

■ B8D5B6

■ D4F1D1

■ F0FFEE

■ 233B23

■ 233B23

■ 1D3B1D

■ 293B29

■ 173B17

■ 2F3B2F

■ 113B11

■ 353B35

■ 0B3B0B

■ 3B3B3B

■ 053B05

■ 413B41

■ 003B00

■ 463B46

■ 4C3B4C

■ 523B52

■ 583B58

# Harmonies

## Analogous

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



34381A



233B23



0D3D31

# Triad

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



233B23



163852



512A2B

# Complementary

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



233B23



3B233B

# 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.



4E2A3A



233B23



313350

# Square

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



233B23



003B4C



442E47



4C2E1F

# Rectangle

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



233B23



003D3B



442E47



512A30



# Sweetspot

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



233B23



434D43



3B3B23



212621



A6A6A6



262626



# Same Dimension

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



233B23



274D27



233B2F



1C1F1C



005E00



00DE00



# Inverse Universe

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



3B233B



4D274D



3B232F



1F1C1F



5E005E

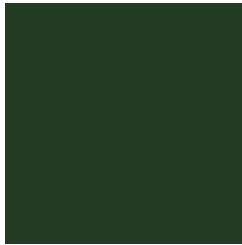


DE00DE



# Previews

## White Background



This preview shows how the Hex color 233B23 looks on a white background.

## Color Contrast Check

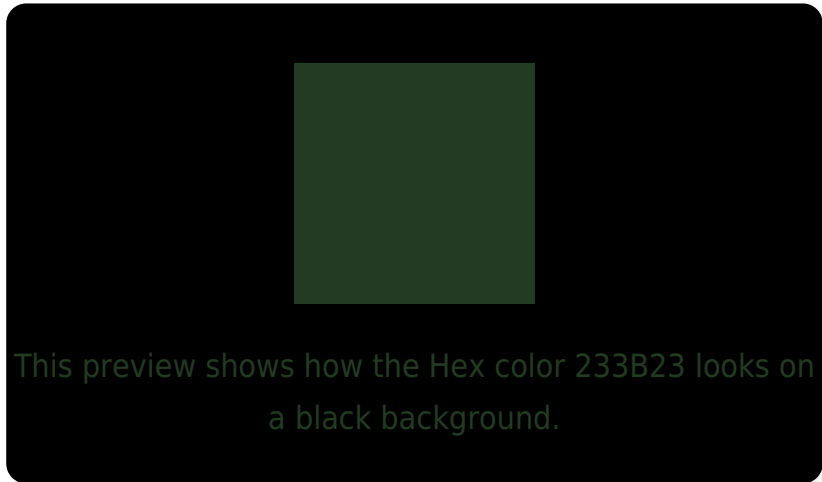
Large Text (above 18pt) WCAG AA ✓ Pass

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

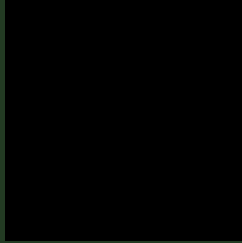
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## Hex 233B23 Background



This preview shows how black text looks on a background with the Hex color 233B23.



This preview shows how white text looks on a background with the Hex color 233B23.

# 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](#).

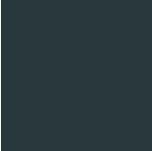
## Dichromacy



**Original Color**  
233B23

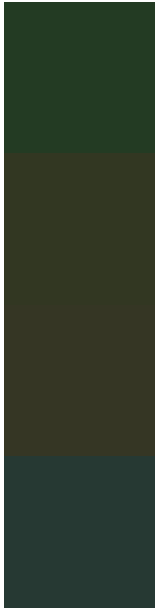
**Protanopia**  
3A3521

**Deuteranopia**  
403325



**Tritanopia**  
28383C

# Trichromacy



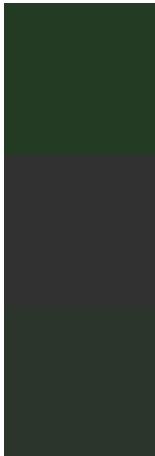
**Original Color**  
233B23

**Protanomaly**  
323722

**Deuteranomaly**  
353624

**Tritanomaly**  
263933

# Monochromacy



**Original Color**  
233B23

**Achromatopsia**  
313131

**Achromatomaly**  
2C352C

# CSS Examples

## Text

The CSS property to change the color of the text to Hex 233B23 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 #233B23 looks like.

```
.text, #text, p{  
    color:#233B23  
}
```

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 #233B23 colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #233B23
}
```

## Border

The CSS property to change the border of an element to Hex 233B23 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".

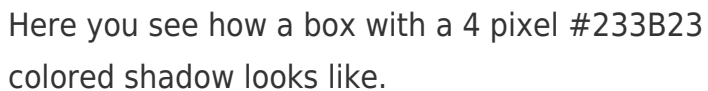
```
.border, #border, table{ border:4px solid
#233B23 }
```

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

```
.border{ border-color:#233B23 }
```

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

Here you see how a box with a 4 pixel #233B23 colored shadow looks like.

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

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #233B23; -webkit-box-shadow:4px 4px  
4px 4px #233B23; box-shadow:4px 4px 4px  
4px #233B23 }
```

# Background

The CSS property to change the background color of an element to Hex 233B23 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#233B23 }
```

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

```
.background{ background-color:#233B23 }
```

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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