

# Converting Colors

Hex(233D17)

Have a look what the booklet for  
Hex(233D17) contains.

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# Color

**Hex(233D17)**

# Conversions

## Conversions Part 1

Format	Color
Hex	233D17
RGB	35, 61, 23
RGB Percent	14%, 24%, 9%
CMY	0.8627, 0.7608, 0.9098
CMYK	0.43, 0.00, 0.62, 0.76
HSL	101°, 45%, 16%
HSV	101°, 62%, 24%
XYZ	2.5165, 3.7567, 1.4031
YIQ	48.8940, -3.2980, -17.3300

# Conversions

## Conversions Part 2

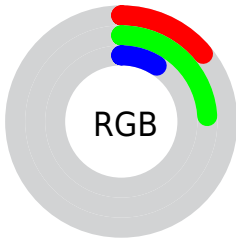
<b>Format</b>	<b>Color</b>
<b>RYB</b>	23, 61, 49
Decimal	2309399
CIELab	22.85, -18.43, 20.09
CIELCh	23, 27.268, 132.531
Yxy	3.7567, 0.3278, 0.4894
Android (android.graphics.Color)	4280499479 (0xFF233D17)
YUV	48.8940, -12.7657, -12.1850
Hunter-Lab	19.3821, -10.7427, 9.2755

# Details

The Hex color **233D17** is a dark color, and the websafe version is hex **003300**. A complement of this color would be **31173D**, and the grayscale version is **313131**.

A 20% lighter version of the original color is **526D43**, and **001200** is the 20% darker color. If you saturate the color by 10%, you get **1F3D11**, and if you desaturate by 10%, it is **273D1D**.

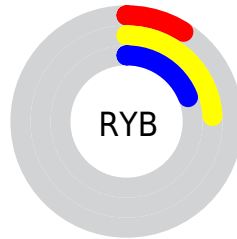
# Distribution



Red (14%)

Green (24%)

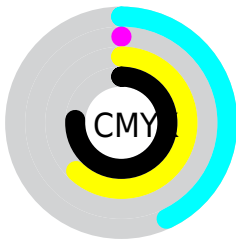
Blue (9%)



Red (9%)

Yellow (24%)

Blue (19%)

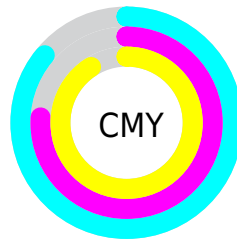


Cyan (43%)

Magenta (0%)

Yellow (62%)

Black (76%)



Cyan (86%)

Magenta (76%)

Yellow (91%)

# Brightness & Saturation Gradients

These gradients show how the Hex color 233D17 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 233D17 by changing the saturation by 10% instead.



 233D17

 233D17

FFFFFFC

 0F2700

 526D43

 001200

 6A865B

 000000

 84A074

 9EBB8D

 B9D7A8

 D5F4C3

 F2FFDF

 233D17

 233D17

■ 1F3D11

■ 273D1D

■ 1B3D0B

■ 2B3D23

■ 163D05

■ 303D29

■ 133D00

■ 343D2F

■ 383D36

■ 3C3D3C

■ 403D42

■ 443D48

■ 493D4E

# Harmonies

## Analogous

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



3A380C



233D17



00402A

# Triad

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



233D17



003C5D



5C242F

# Complementary

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



233D17



31173D

# 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.



552643



233D17



21365E

# Square

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



233D17



003F52



432E55



58291C

# Rectangle

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



233D17



004038



432E55



5B2436



# Sweetspot

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



233D17



454F40



3D3117



22291F



A8A8A8



292929



# Same Dimension

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



233D17



264F14



173D1E



1D1F1C



1E5E00



46DE00



# Inverse Universe

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



31173D



3C144F



3D1736



1E1C1F



41005E



9800DE



# Previews

## White Background



This preview shows how the Hex color 233D17 looks on a white background.

## Color Contrast Check

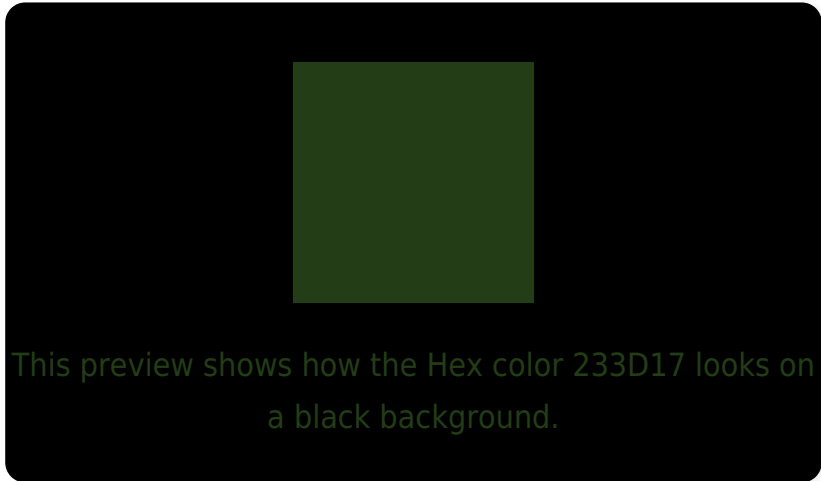
Large Text (above 18pt) WCAG AA ✓ Pass

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

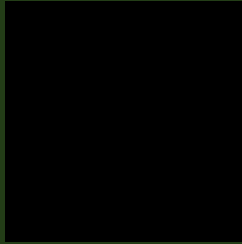
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## Hex 233D17 Background



This preview shows how black text looks on a background with the Hex color 233D17.

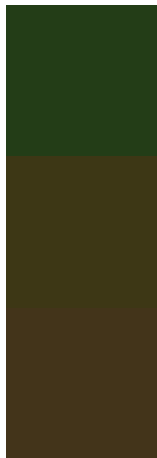


This preview shows how white text looks on a background with the Hex color 233D17.

# 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](#).

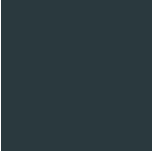
## Dichromacy



**Original Color**  
233D17

**Protanopia**  
3D3715

**Deuteranopia**  
43341A



**Tritanopia**  
2A393E

# Trichromacy



**Original Color**  
233D17

**Protanomaly**  
343916

**Deuteranomaly**  
373719

**Tritanomaly**  
273A30

# Monochromacy



**Original Color**  
233D17

**Achromatopsia**  
313131

**Achromatomaly**  
2C3528

# CSS Examples

## Text

The CSS property to change the color of the text to Hex 233D17 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 #233D17 looks like.

```
.text, #text, p{  
    color:#233D17  
}
```

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 #233D17 colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #233D17
}
```

## Border

The CSS property to change the border of an element to Hex 233D17 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
#233D17 }
```

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

```
.border{ border-color:#233D17 }
```

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

Here you see how a box with a 4 pixel #233D17 colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #233D17; -webkit-box-shadow:4px 4px  
4px 4px #233D17; box-shadow:4px 4px 4px  
4px #233D17 }
```

# Background

The CSS property to change the background color of an element to Hex 233D17 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#233D17 }
```

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

```
.background{ background-color:#233D17 }
```

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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