

# Converting Colors

Hex(B22010)

Have a look what the booklet for  
Hex(B22010) contains.

<b>Hex(B22010)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	23
<b><i>Color Blindness Simulation</i></b> .....	26
<b><i>CSS Examples</i></b> .....	29

**Color**

**Hex(B22010)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B22010
RGB	178, 32, 16
RGB Percent	70%, 13%, 6%
CMY	0.3020, 0.8745, 0.9373
CMYK	0.00, 0.82, 0.91, 0.30
HSL	6°, 84%, 38%
HSV	6°, 91%, 70%
XYZ	18.9701, 10.5354, 1.5239
YIQ	73.8300, 92.1520, 25.9760

# Conversions

## Conversions Part 2

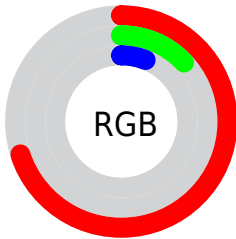
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	178, 34, 16
Decimal	11673616
CIE <sub>Lab</sub>	38.79, 56.05, 46.26
CIE <sub>LCh</sub>	39, 72.676, 39.535
Yxy	10.5354, 0.6114, 0.3395
Android (android.graphics.Color)	4289863696 (0xFFB22010)
YUV	73.8300, -28.5102, 91.3571
Hunter-Lab	32.4583, 47.5217, 19.9372

# Details

The Hex color **B22010** is a dark color, and the websafe version is hex **990000**. A complement of this color would be **10A2B2**, and the grayscale version is **4A4A4A**.

A 20% lighter version of the original color is **F25C3F**, and **740000** is the 20% darker color. If you saturate the color by 10%, you get **B21200**, and if you desaturate by 10%, it is **B23022**.

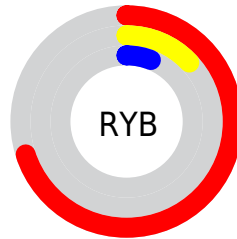
# Distribution



Red (70%)

Green (13%)

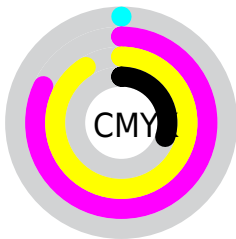
Blue (6%)



Red (70%)

Yellow (13%)

Blue (6%)

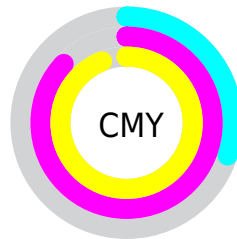


Cyan (0%)

Magenta (82%)

Yellow (91%)

Black (30%)



Cyan (30%)

Magenta (87%)

Yellow (94%)

# Brightness & Saturation Gradients

These gradients show how the Hex color B22010 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 B22010 by changing the saturation by 10% instead.



 B22010

 B22010

 FFFFFFF9

 930000

 F25C3F

 740000

 FF7857

 550000

 FF9370

 3A0002

 FFB08A

 120000

 FFCCA5

 000000

 FFEAC0

 FFFFDC

 B22010

 B22010

 B21200

 B23022

 B24034

 B25045

 B26057

 B27069

 B2807B

 B2908D

 B2A09E

 B2B0B0

# Harmonies

## Analogous

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



BF004C



B22010



904900

# Triad

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



B22010



00712F



005ED2

# Complementary

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



B22010



10A2B2

# 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.



006DCB



B22010



00736D

# Square

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



B22010



0A6B00



0073A6



7040B8

# Rectangle

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



B22010



715900



0073A6



0064D4



# Sweetspot

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



B22010



E8B0A9



B210A5



755350



F5F5F5



757575



# Same Dimension

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



B22010



E81700



B26F10



595150



990F00



1A0300

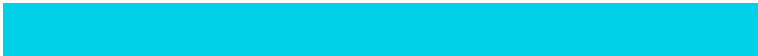


# Inverse Universe

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



10A2B2



00D1E8



1054B2



505859



008A99



00171A



# Previews

## White Background



This preview shows how the Hex color B22010 looks on a white background.

## Color Contrast Check

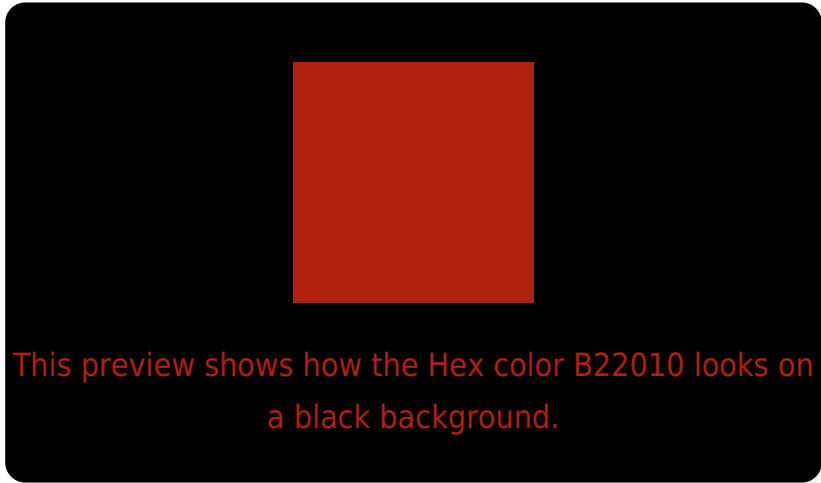
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 B22010 Background



This preview shows how black text looks on a background with the Hex color B22010.



This preview shows how white text looks on a background with the Hex color B22010.

# 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



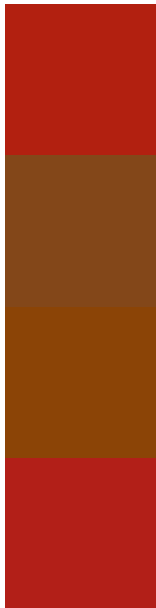
**Original Color**  
B22010

**Protanopia**  
685D1E

**Deuteranopia**  
755800



# Trichromacy



**Original Color**  
B22010

**Protanomaly**  
834719

**Deuteranomaly**  
8B4406

**Tritanomaly**  
B21F18

# Monochromacy



**Original Color**  
B22010

**Achromatopsia**  
4A4A4A

**Achromatomaly**  
703B35

# CSS Examples

## Text

The CSS property to change the color of the text to Hex B22010 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 #B22010 looks like.

```
.text, #text, p{  
    color:#B22010  
}
```

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 #B22010 colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #B22010
}
```

## Border

The CSS property to change the border of an element to Hex B22010 is called "border". The border property can be set on classes, ids or directly on the HTML element.

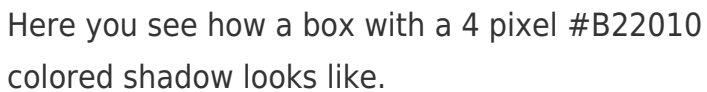
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid
#B22010 }
```

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

```
.border{ border-color:#B22010 }
```

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



Here you see how a box with a 4 pixel #B22010 colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #B22010; -webkit-box-shadow:4px 4px  
4px 4px #B22010; box-shadow:4px 4px 4px  
4px #B22010 }
```

# Background

The CSS property to change the background color of an element to Hex B22010 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#B22010 }
```

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

```
.background{ background-color:#B22010 }
```

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](#).



Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor