

# Converting Colors

Hex(BBAA37)

Have a look what the booklet for  
Hex(BBAA37) contains.

<b>Hex(BBAA37)</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(BBAA37)**

# Conversions

## Conversions Part 1

Format	Color
Hex	<a href="#">BBAA37</a>
RGB	<a href="#">187, 170, 55</a>
RGB Percent	<a href="#">73%, 67%, 22%</a>
CMY	<a href="#">0.2667, 0.3333, 0.7843</a>
CMYK	<a href="#">0.00, 0.09, 0.71, 0.27</a>
HSL	<a href="#">52°, 55%, 47%</a>
HSV	<a href="#">52°, 71%, 73%</a>
XYZ	<a href="#">35.5578, 39.5901, 9.3820</a>
YIQ	<a href="#">161.9730, 47.0470, -32.1610</a>

# Conversions

## Conversions Part 2

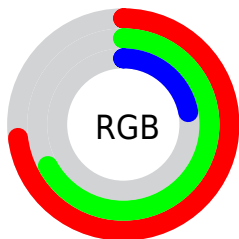
Format	Color
<a href="#">RYB</a>	<a href="#">75, 187, 55</a>
Decimal	<a href="#">12298807</a>
CIELab	<a href="#">69.18, -6.86, 58.52</a>
CIElCh	<a href="#">69, 58.921, 96.690</a>
Yxy	<a href="#">39.5901, 0.4207, 0.4684</a>
Android (android.graphics.Color)	<a href="#">4290488887</a> ( <a href="#">0xFFBBAA37</a> )
YUV	<a href="#">161.9730, -52.7377, 21.9487</a>
Hunter-Lab	<a href="#">62.9206, -9.2369, 35.2038</a>

# Details

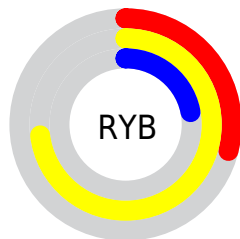
The Hex color **BBAA37** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **3748BB**, and the grayscale version is **A2A2A2**.

A 20% lighter version of the original color is **F6E16D**, and **827600** is the 20% darker color. If you saturate the color by 10%, you get **BBA824**, and if you desaturate by 10%, it is **BBAC4A**.

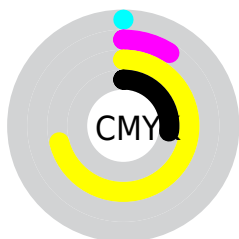
# Distribution



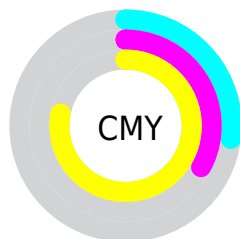
- Red (73%)
- Green (67%)
- Blue (22%)



- Red (29%)
- Yellow (73%)
- Blue (22%)



- Cyan (0%)
- Magenta (9%)
- Yellow (71%)
- Black (27%)



- Cyan (27%)
- Magenta (33%)
- Yellow (78%)

# Brightness & Saturation Gradients

These gradients show how the Hex color BBAA37 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 BBAA37 by changing the saturation by 10% instead.



 BBAA37

 BBAA37

FFFFFF

 9E9019

 F6E16D

 827600

 FFFE88

 675E00

 FFFFA3

 4C4600

 FFFFBF

 323000

 FFFFDC

 1A1C00

 FFFFF9

 000000

 BBAA37

 BBAA37

 BBA824

 BBAC4A

 BBA512

 BBAF5C

 BBA300

 BBB16F

 BBB482

 BBB695

 BBB8A7

 BBBBBA

 BBBDCD

 BBC0DF

# Harmonies

## Analogous

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



E89745



BBAA37



83B84E

# Triad

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



BBA37



00C1E7



F381D4

# Complementary

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



BBA37



3748BB

# 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.



BC96FF



BBAA37



00BAFF

# Square

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



BBA37



00C3B4



56ABFF



FF799F

# Rectangle

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



BBA37



50BE6C



56ABFF



E487E4



# Sweetspot

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



BBA37



F2ECBF



BB3749



7A765C



FAFAFA



7A7A7A



# Same Dimension

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



BBA37



F2D824



8BB37



5E5D55



9E8A00



1F1B00



# Inverse Universe

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



3748BB



243FF2



6737BB



55565E



00149E



00041F



# Previews

## White Background



This preview shows how the Hex color BBAA37 looks on a white background.

## Color Contrast Check

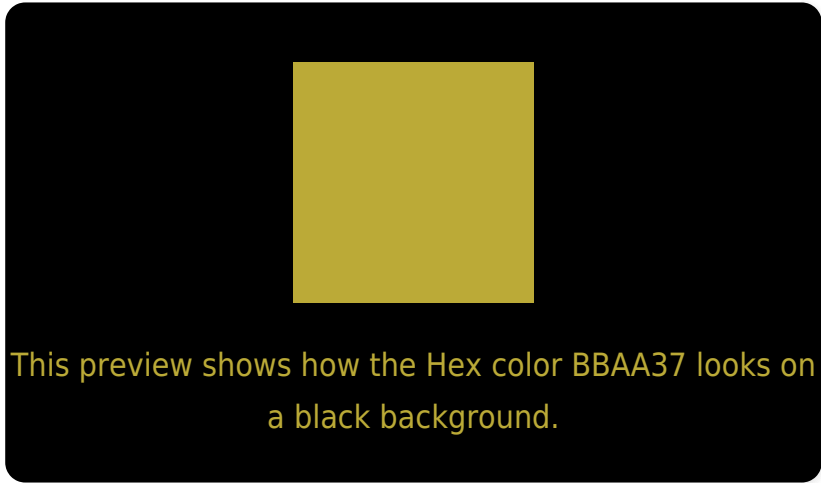
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black 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

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



## Hex BBAA37 Background



This preview shows how black text looks on a background with the Hex color BBAA37.



This preview shows how white text looks on a background with the Hex color BBAA37.

# 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**  
BBAA37

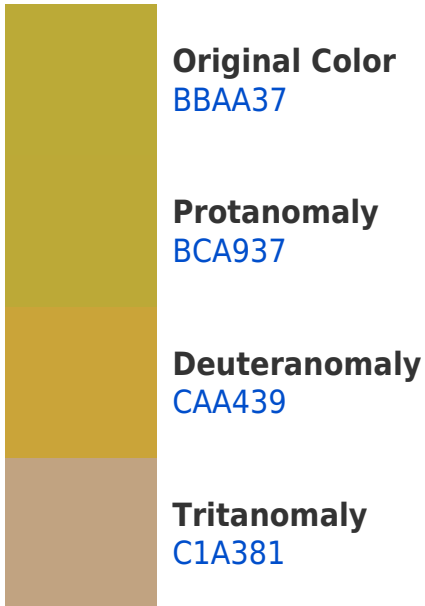
**Protanopia**  
BDA937

**Deuteranopia**  
D3A03A

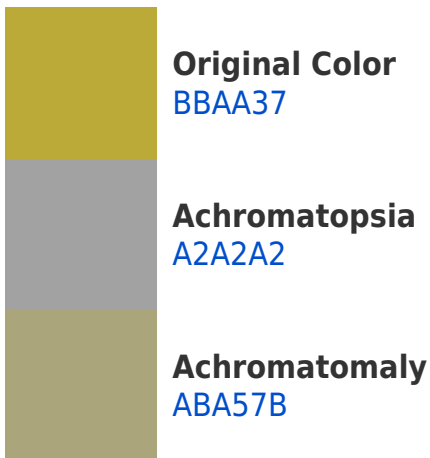


**Tritanopia**  
C49FAB

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to Hex BBAA37 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 #BBAA37 looks like.

```
.text, #text, p{  
    color:#BBAA37  
}
```

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 #BBAA37 colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #BBAA37  
}
```

## Border

The CSS property to change the border of an element to Hex BBAA37 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  
#BBAA37 }
```

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

```
.border{ border-color:#BBAA37 }
```

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

Here you see how a box with a 4 pixel #BBAA37 colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #BBAA37; -webkit-box-shadow:4px 4px  
4px 4px #BBAA37; box-shadow:4px 4px 4px  
4px #BBAA37 }
```

# Background

The CSS property to change the background color of an element to Hex BBAA37 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#BBAA37 }
```

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

```
.background{ background-color:#BBAA37 }
```

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