

# Converting Colors

YIQ(49.8750, 16.0490, -10.0230)

Have a look what the booklet for  
YIQ(49.8750, 16.0490, -10.0230)  
contains.

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# Color

**YIQ(49.8750, 16.0490,  
-10.0230)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	3B340F
RGB	59, 52, 15
RGB Percent	23%, 20%, 6%
CMY	0.7686, 0.7961, 0.9411
CMYK	0.00, 0.12, 0.75, 0.77
HSL	50°, 59%, 15%
HSV	50°, 75%, 23%
XYZ	3.1178, 3.4200, 0.9486
YIQ	49.8750, 16.0490, -10.0230

# Conversions

## Conversions Part 2

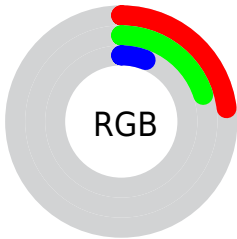
<b>Format</b>	<b>Color</b>
<b>RYB</b>	23, 59, 15
Decimal	3879951
CIELab	21.65, -2.24, 23.76
CIElCh	22, 23.870, 95.389
Yxy	3.4200, 0.4165, 0.4568
Android (android.graphics.Color)	4282070031 (0xFF3B340F)
YUV	49.8750, -17.1934, 8.0026
Hunter-Lab	18.4933, -2.2700, 9.9040

# Details

The YIQ color **49.8750, 16.0490, -10.0230** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **24.1250, -16.0490, 10.0230**, and the grayscale version is **50.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **96.5440, 18.4790, -10.0090**, and **5.5930, -0.4120, -3.5480** is the 20% darker color. If you saturate the color by 10%, you get **48.6040, 18.2500, -11.3660**, and if you desaturate by 10%, it is **51.1460, 13.8480, -8.6800**.

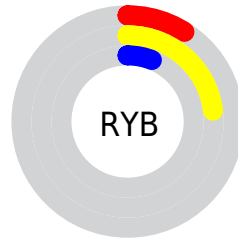
# Distribution



Red (23%)

Green (20%)

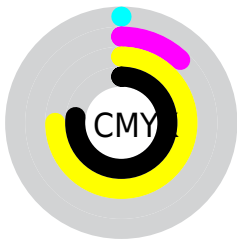
Blue (6%)



Red (9%)

Yellow (23%)

Blue (6%)

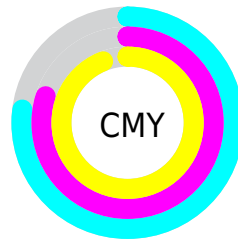


Cyan (0%)

Magenta (12%)

Yellow (75%)

Black (77%)



Cyan (77%)

Magenta (80%)

Yellow (94%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 49.8750, 16.0490, -10.0230 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 YIQ color 49.8750, 16.0490, -10.0230 by changing the saturation by 10% instead.



■ 49.8750, 16.0490,  
-10.0230

■ 49.8750, 16.0490,  
-10.0230

■ 253.5180, 4.1730,  
-4.0430

■ 29.2600, 13.5270,  
-8.3690

■ 96.5440, 18.4790,  
-10.0090

■ 5.5930, -0.4120,  
-3.5480

■ 121.6150, 19.7170,  
-10.4190

■ 0.0000, 0.0000,  
0.0000

■ 147.5010, 20.0380,  
-10.7300

■ 173.9850, 21.5510,  
-10.6170

■ 201.8710, 21.8720,  
-10.9280

■ 230.0560, 22.7890,

-11.0270

■ 250.2120, 13.4820,  
-13.0620

■ 49.8750, 16.0490,  
-10.0230

■ 49.8750, 16.0490,  
-10.0230

■ 48.6040, 18.2500,  
-11.3660

■ 51.1460, 13.8480,  
-8.6800

■ 47.3330, 20.4510,  
-12.7090

■ 52.4170, 11.6470,  
-7.3370

■ 46.9910, 21.4140,  
-13.6420

■ 53.6880, 9.4460,  
-5.9940

■ 54.9590, 7.2450,  
-4.6510

■ 56.2300, 5.0440,  
-3.3080

■ 57.3870, 3.1640,  
-2.2760

■ 58.6580, 0.9630,  
-0.9330

■ 59.9290, -1.2380,  
0.4100

■ 60.6130, -3.1640,  
2.2760

# Harmonies

## Analogous

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



51.4080, 25.0340, -2.1500



49.8750, 16.0490, -10.0230



48.2260, 1.6990, -14.2770

# Triad

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



49.8750, 16.0490, -10.0230



43.4280, -39.6120, -8.9880



53.2550, 13.0640, 16.5520

# Complementary

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



49.8750, 16.0490, -10.0230



24.1250, -16.0490, 10.0230

# 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.



53.2790, -4.6790, 13.2170



49.8750, 16.0490, -10.0230



43.6220, -42.9140, -4.2100

# Square

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



49.8750, 16.0490, -10.0230



42.0770, -34.4300, -14.7980



48.5040, -27.6020, 4.6380



52.4210, 24.1600, 13.6960



# Rectangle

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



49.8750, 16.0490, -10.0230



45.6420, -11.2760, -15.9160



48.5040, -27.6020, 4.6380



53.5040, 7.9290, 16.0010

# Sweetspot

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



49.8750, 16.0490, -10.0230



73.3010, 6.2820, -3.7180



28.9540, 23.9770, 11.5050



36.2730, 3.4850, -2.5870



166.0000, -0.0000, 0.0000



38.0000, -0.0000, -0.0000



# Same Dimension

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



49.8750, 16.0490, -10.0230



62.6770, 25.1740, -15.7060



49.4990, 5.1840, -16.8640



30.0710, 1.2380, -0.4100



74.4790, 34.2990, -21.3890



176.1470, 80.8870, -50.7370



# Inverse Universe

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



24.1250, -16.0490, 10.0230



22.3230, -25.1740, 15.7060



24.5010, -5.1840, 16.8640



28.3420, -0.9630, 0.9330



19.5210, -34.2990, 21.3890

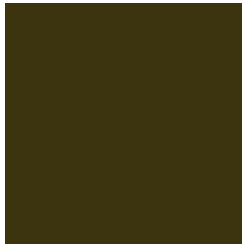


45.8530, -80.8870, 50.7370



# Previews

## White Background



This preview shows how the YIQ color 49.8750, 16.0490, -10.0230 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

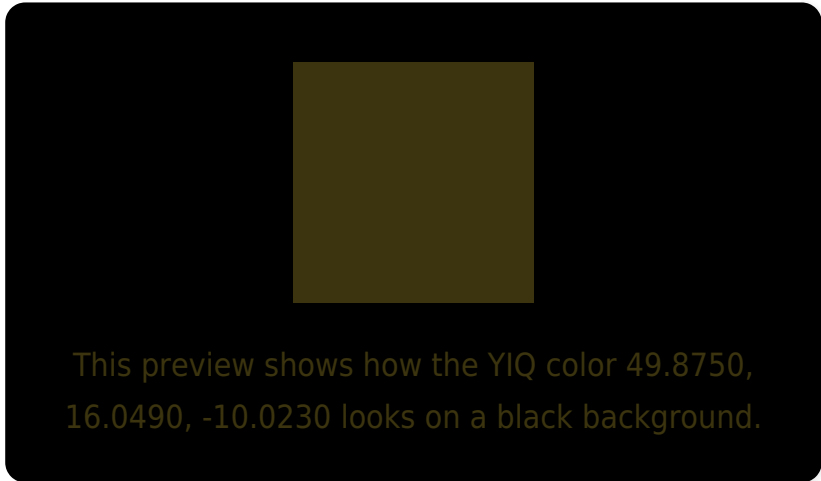
Any Text WCAG AA ✓ Pass

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

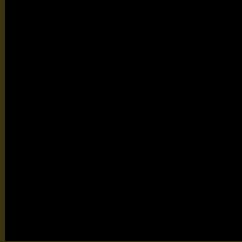
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 49.8750, 16.0490, -10.0230

## Background



This preview shows how black text looks on a background with the YIQ color 49.8750, 16.0490, -10.0230.



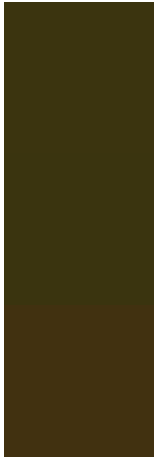
This preview shows how white text looks on a background with the YIQ color 49.8750, 16.0490,

-10.0230.

# 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

49.8750, 16.0490, -10.0230

### Protanopia

49.5760, 15.4530, -10.2350

### Deuteranopia

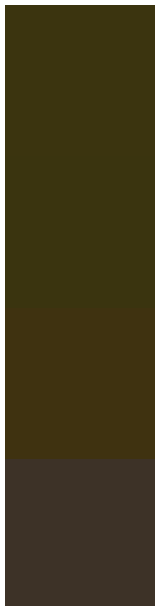
50.0220, 20.1290, -6.8710



## Tritanopia

53.2290, 6.7850, 3.6890

# Trichromacy



## Original Color

49.8750, 16.0490, -10.0230

## Protanomaly

49.5760, 15.4530, -10.2350

## Deuteranomaly

50.0110, 18.6620, -7.8180

## Tritanomaly

52.0350, 10.0870, -1.0890

# Monochromacy



## Original Color

49.8750, 16.0490, -10.0230

## Achromatopsia

50.0000, -0.0000, -0.0000

## Achromatomaly

50.0020, 5.6860, -3.9300

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 49.8750, 16.0490, -10.0230 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 `rgb(59, 52, 15)` looks like.

```
.text, #text, p{  
    color:rgb(59, 52, 15)  
}
```

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 rgb(59, 52, 15) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(59, 52, 15) }
```

## Border

The CSS property to change the border of an element to YIQ 49.8750, 16.0490, -10.0230 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 rgb(59, 52, 15) }
```



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

```
.border{ border-color:rgb(59, 52, 15) }
```

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

Here you see how a box with a 4 pixel `rgb(59, 52, 15)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(59, 52, 15); -webkit-box-  
shadow:4px 4px 4px 4px rgb(59, 52, 15);  
box-shadow:4px 4px 4px 4px rgb(59, 52, 15)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 49.8750, 16.0490, -10.0230 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(59, 52, 15) }
```

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

```
.background{ background-color: rgb(59, 52,  
15) }
```

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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