

# Converting Colors

YIQ(49.9850, 31.8600, 28.3400)

Have a look what the booklet for  
YIQ(49.9850, 31.8600, 28.3400)  
contains.

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# Color

**YIQ(49.9850, 31.8600,  
28.3400)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	62173F
RGB	98, 23, 63
RGB Percent	38%, 9%, 25%
CMY	0.6155, 0.9099, 0.7528
CMYK	0.00, 0.77, 0.36, 0.62
HSL	328°, 62%, 24%
HSV	328°, 77%, 38%
XYZ	6.2463, 3.5703, 5.0661
YIQ	49.9850, 31.8600, 28.3400

# Conversions

## Conversions Part 2

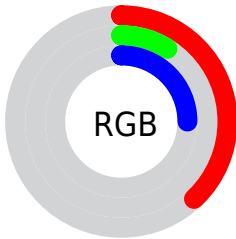
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	98, 23, 63
Decimal	6428479
CIE Lab	22.20, 37.13, -6.08
CIE LCh	22, 37.627, 350.704
Yxy	3.5703, 0.4197, 0.2399
Android (android.graphics.Color)	4284618559 (0xFF62173F)
YUV	49.9850, 6.4164, 42.1092
Hunter-Lab	18.8951, 25.9412, -2.6701

# Details

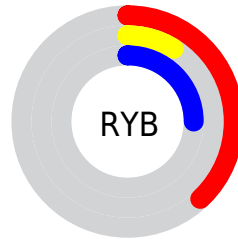
The YIQ color **49.9850, 31.8600, 28.3400** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **71.0150, -31.8600, -28.3400**, and the grayscale version is **50.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **101.5400, 34.6110, 28.0430**, and **17.0450, 22.4630, 16.9190** is the 20% darker color. If you saturate the color by 10%, you get **43.5450, 36.2150, 32.0150**, and if you desaturate by 10%, it is **56.4250, 27.5050, 24.6650**.

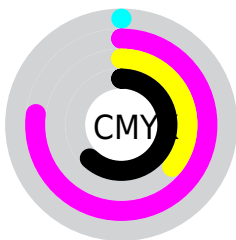
# Distribution



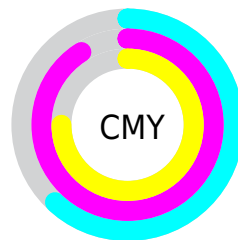
- Red (38%)
- Green (9%)
- Blue (25%)



- Red (38%)
- Yellow (9%)
- Blue (25%)



- Cyan (0%)
- Magenta (77%)
- Yellow (36%)
- Black (62%)



- Cyan (62%)
- Magenta (91%)
- Yellow (75%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 49.9850, 31.8600, 28.3400 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 49.9850, 31.8600, 28.3400 by changing the saturation by 10% instead.



■ 49.9850, 31.8600,  
28.3400

■ 49.9850, 31.8600,  
28.3400

■ 255.0000, -0.0000,  
-0.0000

■ 26.2020, 29.7510,  
28.0150

■ 101.5400, 34.6110,  
28.0430

■ 17.0450, 22.4630,  
16.9190

■ 127.4370, 36.3990,  
28.6790

■ 2.6910, 5.3640,  
1.9080

■ 154.0350, 37.5910,  
29.1030


■ 0.0000, 0.0000,  
0.0000


■ 181.0460, 39.0580,  
30.0500


■ 206.0560, 33.0980,  
27.9300


■ 225.6840, 16.4100,


21.9940


 243.2600, 5.5000,  
10.4600


 49.9850, 31.8600,  
28.3400


 49.9850, 31.8600,  
28.3400


 43.5450, 36.2150,  
32.0150


 56.4250, 27.5050,  
24.6650


 37.2190, 40.2490,  
36.0010

 62.7510, 23.4710,  
20.6790

 35.2300, 41.7160,  
36.9480

 68.6040, 19.3910,  
17.5270

 74.9300, 15.3570,  
13.5410

 81.3700, 11.0020,  
9.8660

■ 87.6960, 6.9680,  
5.8800

■ 94.1360, 2.6130,  
2.2050

■ 99.9890, -1.4670,  
-0.9470

■ 106.3150, -5.5010,  
-4.9330

# Harmonies

## Analogous

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



54.6000, 8.0190, 25.3870



49.9850, 31.8600, 28.3400



48.5760, 42.9570, 19.9570

# Triad

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



49.9850, 31.8600, 28.3400



47.8110, 12.9330, -19.6350



48.5120, -48.4160, -3.6160

# Complementary

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



49.9850, 31.8600, 28.3400



71.0150, -31.8600, -28.3400

# 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.



46.9500, -41.2620, -12.1260



49.9850, 31.8600, 28.3400



40.0720, -18.8390, -27.5350

# Square

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



49.9850, 31.8600, 28.3400



50.5900, 30.0330, -10.1510



43.0570, -31.6780, -20.6220



47.0590, -51.2140, 3.0420



# Rectangle

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



49.9850, 31.8600, 28.3400



49.5400, 42.6380, 9.2140



43.0570, -31.6780, -20.6220



48.3010, -46.4440, -6.3160

# Sweetspot

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



49.9850, 31.8600, 28.3400



108.7940, 12.7440, 11.3360



41.7160, -3.8110, 30.5330



52.4080, 7.8390, 6.6150



191.0000, -0.0000, -0.0000



64.0000, -0.0000, -0.0000



# Same Dimension

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



49.9850, 31.8600, 28.3400



52.4640, 50.1050, 44.6090



45.8810, 43.4160, 17.1440



45.4240, 1.7420, 1.4700



40.3280, 47.4920, 42.4040



86.3520, 101.9520, 90.6880



# Inverse Universe

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



49.9850, 31.8600, 28.3400



52.4640, 50.1050, 44.6090



75.1190, -43.4160, -17.1440



45.4240, 1.7420, 1.4700



40.3280, 47.4920, 42.4040

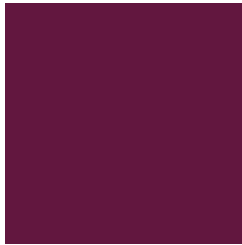


86.3520, 101.9520, 90.6880



# Previews

## White Background



This preview shows how the YIQ color 49.9850, 31.8600, 28.3400 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

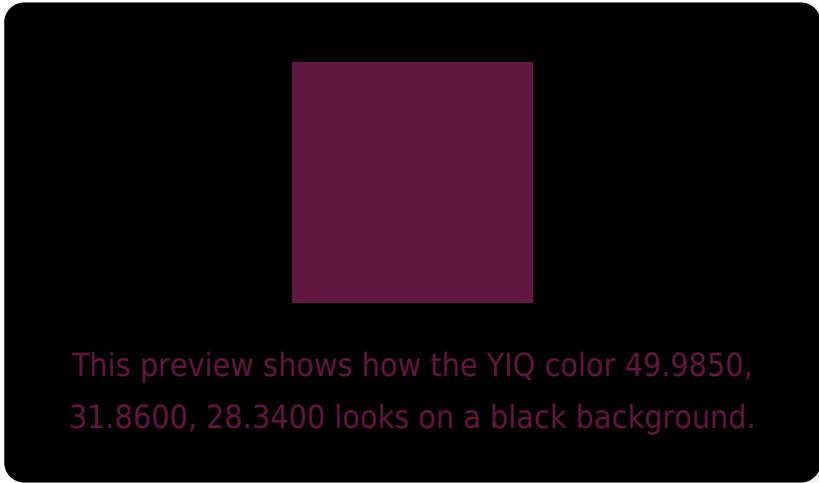
Any Text WCAG AA ✓ Pass

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

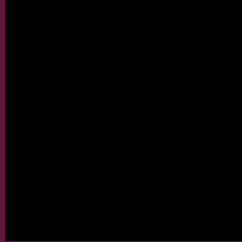
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 49.9850, 31.8600, 28.3400

## Background



This preview shows how black text looks on a background with the YIQ color 49.9850, 31.8600, 28.3400.



This preview shows how white text looks on a background with the YIQ color 49.9850, 31.8600,



# 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

49.9850, 31.8600, 28.3400

### Protanopia

54.4300, -15.5900, 7.2100

### Deuteranopia

55.1790, 1.0540, 2.9260



## Tritanopia

51.3640, 37.5020, 14.1900

# Trichromacy



## Original Color

49.9850, 31.8600, 28.3400

## Protanomaly

53.0410, 1.9230, 14.7150

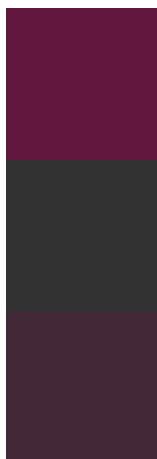
## Deuteranomaly

53.3210, 12.6980, 12.1700

## Tritanomaly

51.1560, 35.3920, 19.3920

# Monochromacy



## Original Color

49.9850, 31.8600, 28.3400

## Achromatopsia

50.0000, -0.0000, -0.0000

## Achromatomaly

49.7830, 11.2770, 10.3890

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 49.9850, 31.8600, 28.3400 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(98, 23, 63)` looks like.

```
.text, #text, p{  
    color:rgb(98, 23, 63)  
}
```

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(98, 23, 63) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(98, 23, 63) }
```

## Border

The CSS property to change the border of an element to YIQ 49.9850, 31.8600, 28.3400 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(98, 23, 63) }
```



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

```
.border{ border-color:rgb(98, 23, 63) }
```

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

Here you see how a box with a 4 pixel `rgb(98, 23, 63)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(98, 23, 63); -webkit-box-  
shadow:4px 4px 4px 4px rgb(98, 23, 63);  
box-shadow:4px 4px 4px 4px rgb(98, 23, 63)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 49.9850, 31.8600, 28.3400 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(98, 23, 63) }
```

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

```
.background{ background-color: rgb(98, 23,  
63) }
```

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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