

# Converting Colors

YIQ(31.2850, 39.8830, 31.6190)

Have a look what the booklet for  
YIQ(31.2850, 39.8830, 31.6190)  
contains.

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# Color

**YIQ(31.2850, 39.8830,  
31.6190)**

# Conversions

## Conversions Part 1

| <b>Format</b> | <b>Color</b>              |
|---------------|---------------------------|
| Hex           | 590029                    |
| RGB           | 89, 0, 41                 |
| RGB Percent   | 35%, 0%, 16%              |
| CMY           | 0.6507, 1.0000, 0.8391    |
| CMYK          | 0.00, 1.00, 0.54, 0.65    |
| HSL           | 332°, 100%, 17%           |
| HSV           | 332°, 100%, 35%           |
| XYZ           | 4.5264, 2.2872, 2.3037    |
| YIQ           | 31.2850, 39.8830, 31.6190 |

# Conversions

## Conversions Part 2

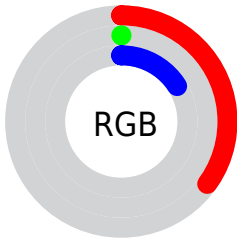
| <b>Format</b>                       | <b>Color</b>                                 |
|-------------------------------------|--|
| <a href="#">RYB</a>                 | <a href="#">89, 0, 41</a>                    |
| Decimal                             | <a href="#">5832745</a>                      |
| CIELab                              | <a href="#">16.93, 39.31, 1.46</a>           |
| CIElCh                              | <a href="#">17, 39.334, 2.121</a>            |
| Yxy                                 | <a href="#">2.2872, 0.4965,<br/>0.2509</a>   |
| Android<br>(android.graphics.Color) | <a href="#">4284022825<br/>(0xFF590029)</a>  |
| YUV                                 | <a href="#">31.2850, 4.7895,<br/>50.6161</a> |
| Hunter-Lab                          | <a href="#">15.1234, 26.9593,<br/>1.5550</a> |

# Details

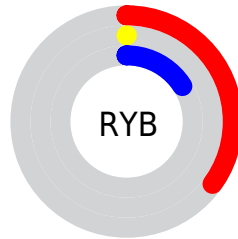
The YIQ color **31.2850, 39.8830, 31.6190** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **57.7150, -39.8830, -31.6190**, and the grayscale version is **31.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **86.0200, 41.9470, 27.2510**, and **11.7750, 22.9230, 8.5790** is the 20% darker color. If you saturate the color by 10%, you get **31.2850, 39.8830, 31.6190**, and if you desaturate by 10%, it is **37.1380, 35.8030, 28.4670**.

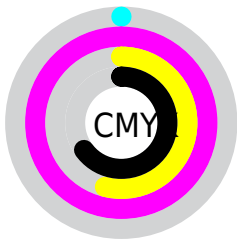
# Distribution



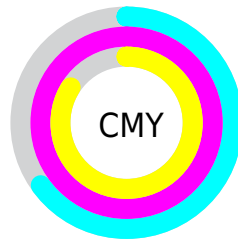
- Red (35%)
- Green (0%)
- Blue (16%)



- Red (35%)
- Yellow (0%)
- Blue (16%)



- Cyan (0%)
- Magenta (100%)
- Yellow (54%)
- Black (65%)




- Cyan (65%)
- Magenta (100%)
- Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the YIQ color 31.2850, 39.8830, 31.6190 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 31.2850, 39.8830, 31.6190 by changing the saturation by 10% instead.





 31.2850, 39.8830,  
31.6190


 31.2850, 39.8830,  
31.6190


 250.3040, 2.2000,  
4.1840


 21.2310, 30.8070,  
19.8870


 86.0200, 41.9470,  
27.2510


 11.7750, 22.9230,  
8.5790

 112.3900, 43.7810,  
27.0530

 0.0000, 0.0000,  
0.0000

 138.5860, 46.1650,  
27.9010

 166.1840, 47.3570,  
28.3250

 192.8850, 46.7610,  
28.1130

 211.8120, 30.6690,

22.3890

■ 232.1410, 13.3850,  
16.2410

■ 31.2850, 39.8830,  
31.6190

■ 37.1380, 35.8030,  
28.4670

■ 42.9910, 31.7230,  
25.3150

■ 48.7300, 27.9640,  
21.8520

■ 54.5830, 23.8840,  
18.7000

■ 60.4360, 19.8040,  
15.5480

■ 65.7020, 15.9990,  
12.9190

■ 71.5550, 11.9190,  
9.7670

■ 77.2940, 8.1600,  
6.3040

■ 83.1470, 4.0800,  
3.1520

# Harmonies

## Analogous

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



39.3950, 19.0220, 29.7260



31.2850, 39.8830, 31.6190



33.8380, 44.9750, 16.4230

# Triad

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



31.2850, 39.8830, 31.6190



35.0530, 0.5080, -20.2280



40.4250, -43.5570, 1.9390

# Complementary

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



31.2850, 39.8830, 31.6190



57.7150, -39.8830, -31.6190

# 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.



39.2050, -37.3660, -5.6380



31.2850, 39.8830, 31.6190



31.8920, -18.1520, -23.4640

# Square

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



31.2850, 39.8830, 31.6190



39.3160, 19.1210, -10.6310



36.0130, -28.3780, -14.3460



37.7010, -44.1540, 7.2540



# Rectangle

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



31.2850, 39.8830, 31.6190



37.7090, 40.4840, 4.1960



36.0130, -28.3780, -14.3460



40.3280, -41.9060, -0.4500

# Sweetspot

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



31.2850, 39.8830, 31.6190



92.2890, 15.7240, 12.3960



24.4980, 0.0390, 37.8550



45.3050, 9.6270, 7.2510



186.0000, -0.0000, -0.0000



59.0000, 0.0000, -0.0000



# Same Dimension

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



31.2850, 39.8830, 31.6190



40.4270, 51.5270, 40.8630



28.3720, 52.2190, 17.2990



40.4240, 1.7420, 1.4700



37.5790, 48.0430, 37.9230



82.5770, 105.3920, 83.4080



# Inverse Universe

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



31.2850, 39.8830, 31.6190



40.4270, 51.5270, 40.8630



60.6280, -52.2190, -17.2990



40.4240, 1.7420, 1.4700



37.5790, 48.0430, 37.9230

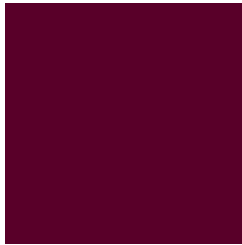


82.5770, 105.3920, 83.4080



# Previews

## White Background



This preview shows how the YIQ color 31.2850, 39.8830, 31.6190 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

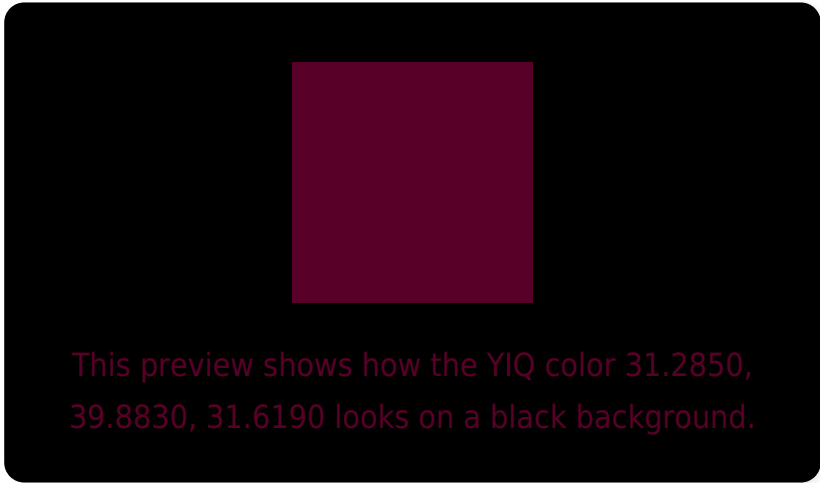
Any Text WCAG AA ✓ Pass

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

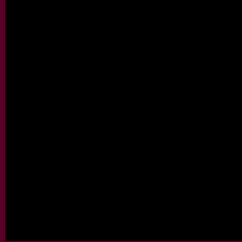
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 31.2850, 39.8830, 31.6190

## Background



This preview shows how black text looks on a background with the YIQ color 31.2850, 39.8830, 31.6190.



This preview shows how white text looks on a background with the YIQ color 31.2850, 39.8830,



# 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

31.2850, 39.8830, 31.6190

### Protanopia

46.2860, -6.5570, 3.1950

### Deuteranopia

46.1920, 8.2070, -0.0570



## Tritanopia

37.5280, 42.9120, 15.2640

# Trichromacy



## Original Color

31.2850, 39.8830, 31.6190

## Protanomaly

40.5920, 10.4970, 13.5130

## Deuteranomaly

40.8010, 20.0340, 11.3780

## Tritanomaly

35.0320, 41.6730, 21.2010

# Monochromacy



## Original Color

31.2850, 39.8830, 31.6190

## Achromatopsia

31.0000, -0.0000, -0.0000

## Achromatomaly

31.2780, 14.2570, 11.4490

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 31.2850, 39.8830, 31.6190 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(89, 0, 41)` looks like.

```
.text, #text, p{  
    color:rgb(89, 0, 41)  
}
```

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(89, 0, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 0, 41) }
```

## Border

The CSS property to change the border of an element to YIQ 31.2850, 39.8830, 31.6190 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(89, 0, 41) }
```



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

```
.border{ border-color:rgb(89, 0, 41) }
```

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

Here you see how a box with a 4 pixel `rgb(89, 0, 41)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 0, 41); -webkit-box-shadow:4px  
4px 4px 4px rgb(89, 0, 41); box-shadow:4px  
4px 4px 4px rgb(89, 0, 41) }
```

# Background

The CSS property to change the background color of an element to YIQ 31.2850, 39.8830, 31.6190 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 0, 41) }
```

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

```
.background{ background-color: rgb(89, 0,  
41) }
```

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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