

# Converting Colors

YIQ(29.7870, 31.8170, 12.5930)

Have a look what the booklet for  
YIQ(29.7870, 31.8170, 12.5930)  
contains.

<b>YIQ(29.7870, 31.8170, 12.5930)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**YIQ(29.7870, 31.8170,  
12.5930)**

# Conversions

## Conversions Part 1

Format	Color
Hex	440D10
RGB	68, 13, 16
RGB Percent	27%, 5%, 6%
CMY	0.7332, 0.9491, 0.9371
CMYK	0.00, 0.81, 0.76, 0.73
HSL	357°, 68%, 16%
HSV	357°, 81%, 27%
XYZ	2.6236, 1.5549, 0.6533
YIQ	29.7870, 31.8170, 12.5930

# Conversions

## Conversions Part 2

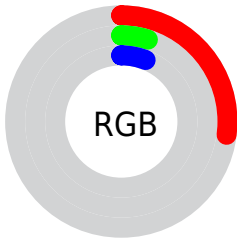
<b>Format</b>	<b>Color</b>
<b>RYB</b>	68, 13, 16
Decimal	4459792
CIELab	12.95, 26.31, 12.99
CIElCh	13, 29.343, 26.272
Yxy	1.5549, 0.5430, 0.3218
Android (android.graphics.Color)	4282649872 (0xFF440D10)
YUV	29.7870, -6.7970, 33.5128
Hunter-Lab	12.4697, 15.7350, 5.6225

# Details

The YIQ color **29.7870, 31.8170, 12.5930** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **51.2130, -31.8170, -12.5930**, and the grayscale version is **30.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **77.7120, 36.4020, 12.0980**, and **0.0000, 0.0000, 0.0000** is the 20% darker color. If you saturate the color by 10%, you get **24.9940, 35.6680, 14.3880**, and if you desaturate by 10%, it is **34.5800, 27.9660, 10.7980**.

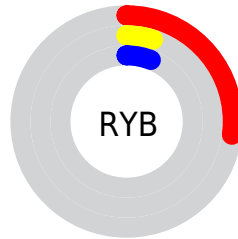
# Distribution



Red (27%)

Green (5%)

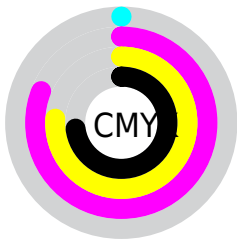
Blue (6%)



Red (27%)

Yellow (5%)

Blue (6%)

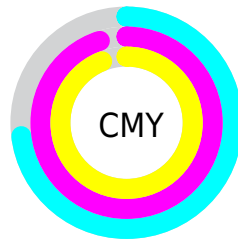


Cyan (0%)

Magenta (81%)

Yellow (76%)

Black (73%)



Cyan (73%)

Magenta (95%)

Yellow (94%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 29.7870, 31.8170, 12.5930 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 29.7870, 31.8170, 12.5930 by changing the saturation by 10% instead.



■ 29.7870, 31.8170,  
12.5930

■ 29.7870, 31.8170,  
12.5930

■ 246.7190, 8.1610,  
0.7770

■ 13.4550, 26.8200,  
9.5400

■ 77.7120, 36.4020,  
12.0980

■ 0.0000, 0.0000,  
0.0000

■ 102.7940, 39.1070,  
12.6350


■ 127.6910, 40.8950,  
13.2710


■ 154.5880, 42.6830,  
13.9070


■ 182.0720, 44.1960,  
14.0200


■ 207.4630, 41.5370,


12.6490


 227.0910, 24.8490,  
6.7130


 29.7870, 31.8170,  
12.5930


 29.7870, 31.8170,  
12.5930


 24.9940, 35.6680,  
14.3880


 34.5800, 27.9660,  
10.7980

 20.7880, 39.2440,  
15.6600

 39.4870, 23.7940,  
9.3140

 43.6930, 20.2180,  
8.0420

 48.6000, 16.0460,  
6.5580

 53.3930, 12.1950,  
4.7630

■ 58.3000, 8.0230,  
3.2790

■ 63.0930, 4.1720,  
1.4840

■ 67.2990, 0.5960,  
0.2120

■ 72.2060, -3.5760,  
-1.2720

# Harmonies

## Analogous

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



30.1210, 25.3050, 20.4810



29.7870, 31.8170, 12.5930



31.4410, 29.4350, 0.6910

# Triad

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



29.7870, 31.8170, 12.5930



24.7510, -13.2010, -19.5770



30.1550, -33.9290, 3.6630

# Complementary

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



29.7870, 31.8170, 12.5930



51.2130, -31.8170, -12.5930

# 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.



31.7050, -32.7820, -0.6060



29.7870, 31.8170, 12.5930



28.0740, -21.1800, -12.6360

# Square

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



29.7870, 31.8170, 12.5930



29.4930, 5.3210, -13.8390



30.4680, -27.9210, -6.1050



32.7770, -14.9490, 12.1150



# Rectangle

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



29.7870, 31.8170, 12.5930



31.9730, 21.8250, -4.5670



30.4680, -27.9210, -6.1050



31.2150, -34.1580, 2.3060

# Sweetspot

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



29.7870, 31.8170, 12.5930



74.3930, 12.1950, 4.7630



34.5190, 12.7410, 27.9170



36.8870, 7.7480, 2.7560



173.0000, -0.0000, 0.0000



46.0000, 0.0000, -0.0000



# Same Dimension

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



29.7870, 31.8170, 12.5930



29.1700, 49.9720, 19.4760



43.5330, 26.1800, -0.8920



30.8970, 1.7880, 0.6360



29.5730, 56.2070, 22.1190



68.3440, 129.6520, 51.2200



# Inverse Universe

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



29.7870, 31.8170, 12.5930



29.1700, 49.9720, 19.4760



37.4670, -26.1800, 0.8920



30.8970, 1.7880, 0.6360



29.5730, 56.2070, 22.1190



68.3440, 129.6520, 51.2200



# Previews

## White Background



This preview shows how the YIQ color 29.7870, 31.8170, 12.5930 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

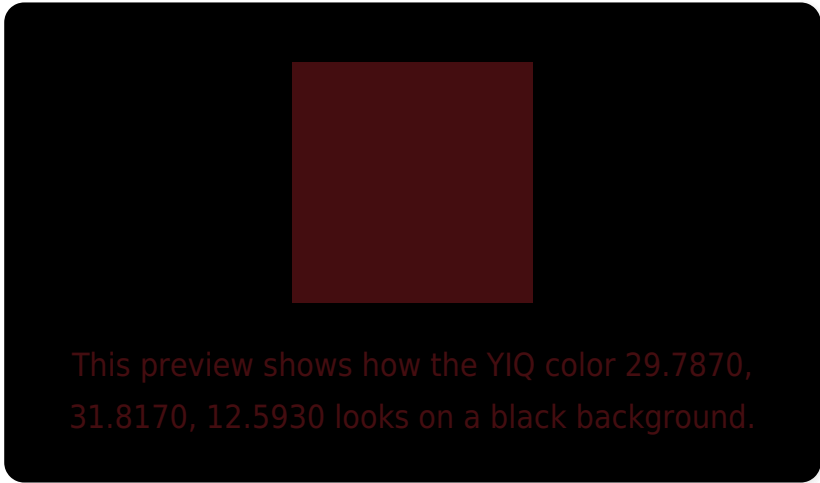
Any Text WCAG AA ✓ Pass

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

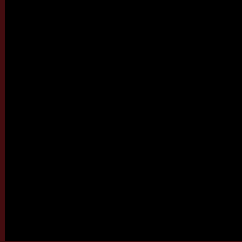
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 29.7870, 31.8170, 12.5930

## Background



This preview shows how black text looks on a background with the YIQ color 29.7870, 31.8170, 12.5930.



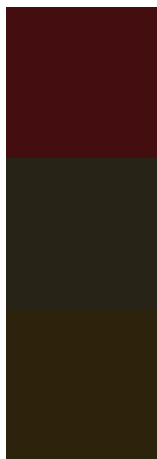
This preview shows how white text looks on a background with the YIQ color 29.7870, 31.8170,



# 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

29.7870, 31.8170, 12.5930

### Protanopia

35.4150, 5.9610, -3.4070

### Deuteranopia

34.7810, 13.6180, -4.5100



## Tritanopia

29.4450, 32.7800, 11.6600

# Trichromacy



## Original Color

29.7870, 31.8170, 12.5930

## Protanomaly

33.6660, 15.6800, 2.1760

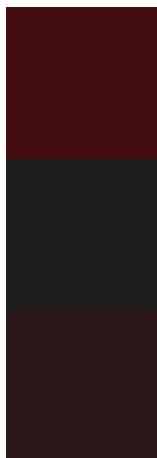
## Deuteranomaly

32.5910, 20.2650, 1.6810

## Tritanomaly

29.5590, 32.4590, 11.9710

# Monochromacy



## Original Color

29.7870, 31.8170, 12.5930

## Achromatopsia

30.0000, -0.0000, -0.0000

## Achromatomaly

30.0940, 11.5990, 4.5510

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 29.7870, 31.8170, 12.5930 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(68, 13, 16)` looks like.

```
.text, #text, p{  
    color:rgb(68, 13, 16)  
}
```

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(68, 13, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 13, 16) }
```

## Border

The CSS property to change the border of an element to YIQ 29.7870, 31.8170, 12.5930 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(68, 13, 16) }
```



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

```
.border{ border-color:rgb(68, 13, 16) }
```

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

Here you see how a box with a 4 pixel `rgb(68, 13, 16)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 13, 16); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 13, 16);  
box-shadow:4px 4px 4px 4px rgb(68, 13, 16)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 29.7870, 31.8170, 12.5930 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 13, 16) }
```

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

```
.background{ background-color: rgb(68, 13,  
16) }
```

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