

# Converting Colors

YIQ(48.5900, -4.3570, 7.3790)

Have a look what the booklet for  
YIQ(48.5900, -4.3570, 7.3790)  
contains.

|  |    |
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# Color

**YIQ(48.5900, -4.3570,  
7.3790)**

# Conversions

| Conversions Part 1 |                          |
|--------------------|--------------------------|
| Format             | Color                    |
| Hex                | 312D42                   |
| RGB                | 49, 45, 66               |
| RGB Percent        | 19%, 18%, 26%            |
| CMY                | 0.8078, 0.8235, 0.7412   |
| CMYK               | 0.26, 0.32, 0.00, 0.74   |
| HSL                | 251°, 19%, 22%           |
| HSV                | 251°, 32%, 26%           |
| XYZ                | 3.1883, 2.9230, 5.5491   |
| YIQ                | 48.5900, -4.3570, 7.3790 |

# Conversions

## Conversions Part 2

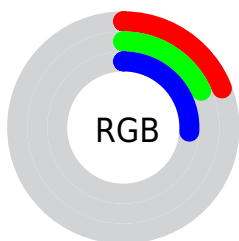
| Format                              | Color                                      |
|-------------------------------------|--|
| <a href="#">RYB</a>                 | <a href="#">49, 45, 66</a>                 |
| Decimal                             | <a href="#">3222850</a>                    |
| CIELab                              | <a href="#">19.73, 7.23, -12.54</a>        |
| CIELCh                              | <a href="#">20, 14.479, 299.973</a>        |
| Yxy                                 | <a href="#">2.9230, 0.2734, 0.2507</a>     |
| Android<br>(android.graphics.Color) | <a href="#">4281412930</a><br>(0xFF312D42) |
| YUV                                 | <a href="#">48.5900, 8.5831, 0.3596</a>    |
| Hunter-Lab                          | <a href="#">17.0968, 3.3686, -7.2759</a>   |

# Details

The YIQ color **48.5900, -4.3570, 7.3790** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **62.4100, 4.3570, -7.3790**, and the grayscale version is **49.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **95.1170, -4.4030, 8.2130**, and **3.3340, -6.5120, 7.8880** is the 20% darker color. If you saturate the color by 10%, you get **42.9860, -5.4120, 9.9800**, and if you desaturate by 10%, it is **54.1940, -3.3020, 4.7780**.

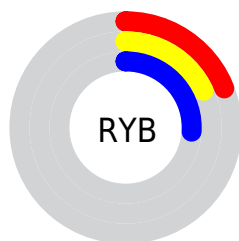
# Distribution



Red (19%)

Green (18%)

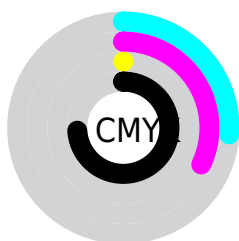
Blue (26%)



Red (19%)

Yellow (18%)

Blue (26%)

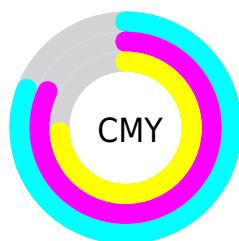


Cyan (26%)

Magenta (32%)

Yellow (0%)

Black (74%)



Cyan (81%)

Magenta (82%)

Yellow (74%)


# Brightness & Saturation


## Gradients

These gradients show how the YIQ color 48.5900, -4.3570, 7.3790 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 48.5900, -4.3570, 7.3790 by changing the saturation by 10% instead.





 48.5900, -4.3570,  
7.3790


 48.5900, -4.3570,  
7.3790


255.0000, -0.0000,  
-0.0000

 27.4760, -4.0360,  
7.0680


 95.1170, -4.4030,  
8.2130

 3.3340, -6.5120,  
7.8880

 119.2310, -4.7240,  
8.5240

 0.0000, 0.0000,  
0.0000

 145.3450, -5.0450,  
8.8350

 171.7580, -4.7700,  
9.3580

 198.8720, -5.0910,  
9.6690

 226.9860, -5.4120,

9.9800

252.6520, 1.1000,  
2.0920

48.5900, -4.3570,  
7.3790

48.5900, -4.3570,  
7.3790

42.9860, -5.4120,  
9.9800

54.1940, -3.3020,  
4.7780

37.6700, -7.3380,  
11.8460

59.5100, -1.3760,  
2.9120

32.0660, -8.3930,  
14.4470

65.1140, -0.3210,  
0.3110

27.0490, -9.7230,  
16.5250

70.1310, 1.0090,  
-1.7670

21.1460, -11.3740,  
18.9140

76.0340, 2.6600,  
-4.1560

■ 15.5420, -12.4290,  
21.5150

■ 81.6380, 3.7150,  
-6.7570

■ 11.4110, -13.4380,  
23.2820

■ 86.6550, 5.0450,  
-8.8350

■ 92.5580, 6.6960,  
-11.2240

■ 97.5750, 8.0260,  
-13.3020

# Harmonies

## Analogous

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



46.4960, -15.9560, 2.8280



48.5900, -4.3570, 7.3790



48.9180, 6.4630, 9.5270

# Triad

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



48.5900, -4.3570, 7.3790



47.4980, 16.0930, 0.1970



41.8510, -18.9340, -9.2860

# Complementary

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



48.5900, -4.3570, 7.3790



62.4100, 4.3570, -7.3790

# 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.



44.0110, -7.7010, -9.1170



48.5900, -4.3570, 7.3790



47.1120, 11.1880, -4.5240

# Square

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



48.5900, -4.3570, 7.3790



48.1440, 17.3300, 5.3140



45.8120, 3.1650, -7.8030



40.4140, -27.8290, -7.7730



# Rectangle

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



48.5900, -4.3570, 7.3790



49.1420, 11.6440, 9.2440



45.8120, 3.1650, -7.8030



43.0040, -14.9910, -9.1590

# Sweetspot

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



48.5900, -4.3570, 7.3790



79.6240, -1.6970, 3.2230



57.3730, -11.4160, -2.3600



38.8690, -1.0090, 1.7670



171.0000, -0.0000, -0.0000



43.0000, -0.0000, -0.0000



# Same Dimension

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



48.5900, -4.3570, 7.3790



59.5560, -7.0170, 11.5350



51.5800, 1.6030, 9.4990



30.3420, -0.9630, 0.9330



16.4400, -20.4090, 33.9830



38.3930, -46.2760, 78.7800



# Inverse Universe

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



53.2170, 7.0590, 9.7390



66.8310, 11.3220, 15.0820



59.4200, -1.6030, -9.4990



31.2390, 0.8250, 1.5690



37.8950, 32.7740, 44.8220



87.7240, 75.0820, 104.0900



# Previews

## White Background



This preview shows how the YIQ color 48.5900, -4.3570, 7.3790 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



This preview shows how the YIQ color 48.5900, -4.3570, 7.3790 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

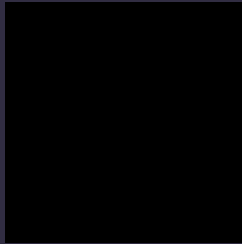
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 48.5900, -4.3570, 7.3790**

## **Background**



This preview shows how black text looks on a background with the YIQ color 48.5900, -4.3570, 7.3790.



This preview shows how white text looks on a background with the YIQ color 48.5900, -4.3570,



# 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

48.5900, -4.3570, 7.3790

### Protanopia

47.6000, -10.3170, 5.2590

### Deuteranopia

47.6710, -9.0790, 4.8490



## Tritanopia

47.8580, -2.4760, 0.8200

# Trichromacy



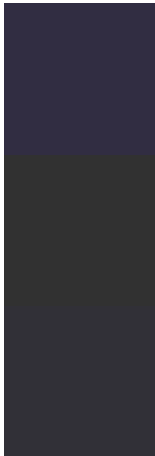
**Original Color**  
48.5900, -4.3570, 7.3790

**Protanomaly**  
47.7960, -7.9330, 6.1070

**Deuteranomaly**  
47.9810, -7.0160, 6.0080

**Tritanomaly**  
48.1400, -3.2100, 3.1100

# Monochromacy



**Original Color**  
48.5900, -4.3570, 7.3790

**Achromatopsia**  
49.0000, -0.0000, -0.0000

**Achromatomaly**  
49.0970, -1.6510, 2.3890

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 48.5900, -4.3570, 7.3790 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(49, 45, 66)` looks like.

```
.text, #text, p{  
    color:rgb(49, 45, 66)  
}
```

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(49, 45, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 45, 66) }
```

## Border

The CSS property to change the border of an element to YIQ 48.5900, -4.3570, 7.3790 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(49, 45, 66) }
```



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

```
.border{ border-color:rgb(49, 45, 66) }
```

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

Here you see how a box with a 4 pixel rgb(49, 45, 66) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 45, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 45, 66);  
box-shadow:4px 4px 4px 4px rgb(49, 45, 66)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 48.5900, -4.3570, 7.3790 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 45, 66) }
```

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

```
.background{ background-color: rgb(49, 45,  
66) }
```

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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