

# Converting Colors

YIQ(50.9670, -4.4010, -2.8410)

Have a look what the booklet for  
YIQ(50.9670, -4.4010, -2.8410)  
contains.

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# Color

**YIQ(50.9670, -4.4010,  
-2.8410)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2D3633
RGB	45, 54, 51
RGB Percent	18%, 21%, 20%
CMY	0.8236, 0.7882, 0.8000
CMYK	0.17, 0.00, 0.06, 0.79
HSL	160°, 9%, 19%
HSV	160°, 17%, 21%
XYZ	2.9987, 3.4354, 3.6366
YIQ	50.9670, -4.4010, -2.8410

# Conversions

## Conversions Part 2

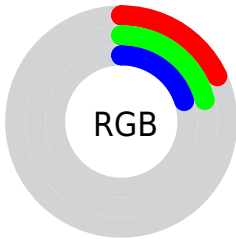
<b>Format</b>	<b>Color</b>
<b>RYB</b>	45, 50, 54
Decimal	2962995
CIELab	21.71, -4.55, 0.61
CIELCh	22, 4.589, 172.383
Yxy	3.4354, 0.2978, 0.3411
Android (android.graphics.Color)	4281153075 (0xFF2D3633)
YUV	50.9670, 0.0163, -5.2331
Hunter-Lab	18.5349, -3.5569, 1.3416

# Details

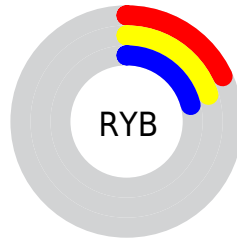
The YIQ color **50.9670, -4.4010, -2.8410** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **48.0330, 4.4010, 2.8410**, and the grayscale version is **51.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **97.5540, -4.6760, -3.3640**, and **6.4400, -4.3550, -3.6750** is the 20% darker color. If you saturate the color by 10%, you get **49.2440, -6.7390, -4.5230**, and if you desaturate by 10%, it is **52.6900, -2.0630, -1.1590**.

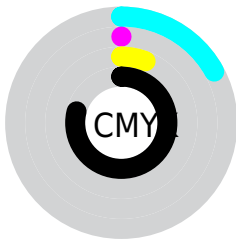
# Distribution



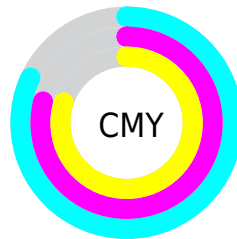
- Red (18%)
- Green (21%)
- Blue (20%)



- Red (18%)
- Yellow (20%)
- Blue (21%)



- Cyan (17%)
- Magenta (0%)
- Yellow (6%)
- Black (79%)



- Cyan (82%)
- Magenta (79%)
- Yellow (80%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 50.9670, -4.4010, -2.8410 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 50.9670, -4.4010, -2.8410 by changing the saturation by 10% instead.



■ 50.9670, -4.4010,  
-2.8410

■ 50.9670, -4.4010,  
-2.8410

■ 255.0000, -0.0000,  
-0.0000

■ 29.9670, -4.4010,  
-2.8410

■ 97.5540, -4.6760,  
-3.3640

■ 6.4400, -4.3550,  
-3.6750

■ 122.2550, -5.2720,  
-3.5760

■ 0.0000, 0.0000,  
0.0000

■ 147.6680, -4.9970,  
-3.0530

■ 174.2550, -5.2720,  
-3.5760

■ 201.9560, -5.8680,  
-3.7880

■ 229.9560, -5.8680,

-3.7880

253.8040, -2.3840,  
-0.8480

■ 50.9670, -4.4010,  
-2.8410

■ 50.9670, -4.4010,  
-2.8410

■ 49.2440, -6.7390,  
-4.5230

■ 52.6900, -2.0630,  
-1.1590

■ 47.2220, -9.6730,  
-6.4170

■ 54.7120, 0.8710,  
0.7350

■ 45.6130, -12.3320,  
-7.7880

■ 56.3210, 3.5300,  
2.1060

■ 43.5910, -15.2660,  
-9.6820

■ 58.3430, 6.4640,  
4.0000

■ 41.8680, -17.6040,  
-11.3640

■ 60.0660, 8.8020,  
5.6820

■ 40.1450, -19.9420,  
-13.0460

■ 61.7890, 11.1400,  
7.3640

■ 38.1230, -22.8760,  
-14.9400

■ 63.8110, 14.0740,  
9.2580

■ 36.5140, -25.5350,  
-16.3110

■ 65.4200, 16.7330,  
10.6290

■ 35.8020, -26.4060,  
-17.0460

■ 67.4420, 19.6670,  
12.5230

# Harmonies

## Analogous

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



50.9350, -1.3750, -2.6150



50.9670, -4.4010, -2.8410



51.0100, -5.9600, -2.1200

# Triad

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



50.9670, -4.4010, -2.8410



52.0970, -1.6510, 2.3890



52.0500, 5.7310, 0.7630

# Complementary

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



50.9670, -4.4010, -2.8410



48.0330, 4.4010, 2.8410

# 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.



52.6910, 5.3640, 1.9080



50.9670, -4.4010, -2.8410



52.4780, 1.6500, 3.1380

# Square

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



50.9670, -4.4010, -2.8410



51.8900, -5.5020, 0.5940



52.7340, 3.8050, 2.6290



51.8110, 4.9060, -0.8060



# Rectangle

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



50.9670, -4.4010, -2.8410



51.2380, -6.6020, -1.4980



52.7340, 3.8050, 2.6290



52.4630, 6.0060, 1.2860

# Sweetspot

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



50.9670, -4.4010, -2.8410



69.9890, -1.4670, -0.9470



51.1800, -0.6870, -4.0710



35.2880, -0.8710, -0.7350



163.0000, -0.0000, -0.0000



36.0000, -0.0000, 0.0000



# Same Dimension

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



50.9670, -4.4010, -2.8410



66.3580, -7.0600, -4.2120



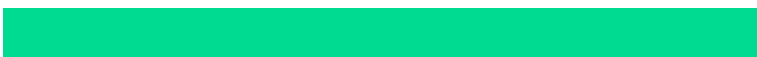
50.7220, -5.0890, -1.3850



26.9890, -1.4670, -0.9470



60.9580, -44.8810, -29.1450



145.1970, -107.0910, -69.1310



# Inverse Universe

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



48.0330, 4.4010, 2.8410



61.7560, 6.7390, 4.5230



48.2780, 5.0890, 1.3850



26.0110, 1.4670, 0.9470



31.0420, 44.8810, 29.1450

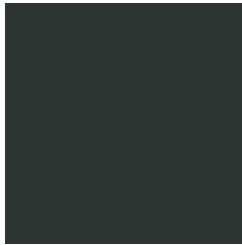


73.8030, 107.0910, 69.1310



# Previews

## White Background



This preview shows how the YIQ color 50.9670, -4.4010, -2.8410 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

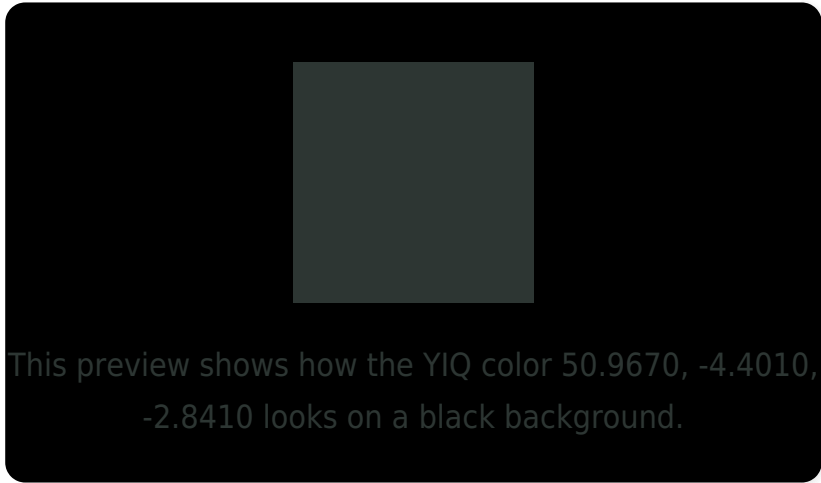
Any Text WCAG AA ✓ Pass

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

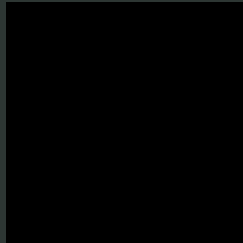
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

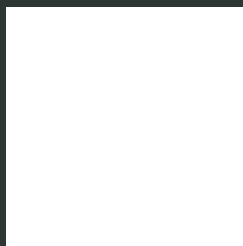
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**YIQ 50.9670, -4.4010, -2.8410**

## **Background**



This preview shows how black text looks on a background with the YIQ color 50.9670, -4.4010, -2.8410.



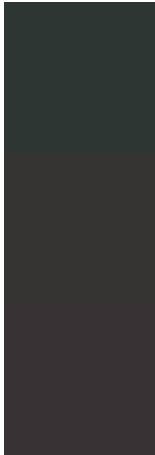
This preview shows how white text looks on a background with the YIQ color 50.9670, -4.4010, -2.8410.

-2.8410.

# 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

50.9670, -4.4010, -2.8410

### Protanopia

52.0710, 1.2380, -0.4100

### Deuteranopia

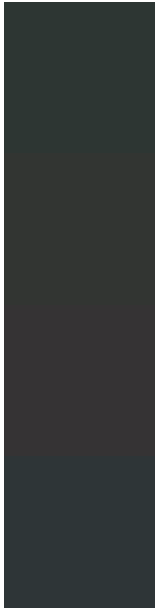
52.3210, 3.5300, 2.1060



**Tritanopia**

51.3630, -5.4560, -0.2400

# Trichromacy



## Original Color

50.9670, -4.4010, -2.8410

## Protanomaly

51.7610, -0.8250, -1.5690

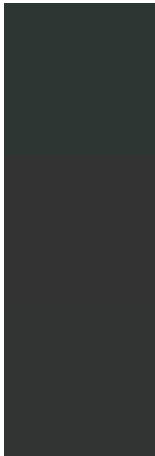
## Deuteranomaly

51.7120, 0.8710, 0.7350

## Tritanomaly

51.1350, -4.8140, -0.8620

# Monochromacy



## Original Color

50.9670, -4.4010, -2.8410

## Achromatopsia

51.0000, -0.0000, -0.0000

## Achromatomaly

50.9890, -1.4670, -0.9470

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 50.9670, -4.4010, -2.8410 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(45, 54, 51)` looks like.

```
.text, #text, p{  
    color:rgb(45, 54, 51)  
}
```

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(45, 54, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 54, 51) }
```

## Border

The CSS property to change the border of an element to YIQ 50.9670, -4.4010, -2.8410 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(45, 54, 51) }
```



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

```
.border{ border-color:rgb(45, 54, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 54, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 54, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 54, 51);  
box-shadow:4px 4px 4px 4px rgb(45, 54, 51)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 50.9670, -4.4010, -2.8410 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 54, 51) }
```

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

```
.background{ background-color: rgb(45, 54,  
51) }
```

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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