

# Converting Colors

YIQ(45.6970, -3.9410, -11.1810)

Have a look what the booklet for  
YIQ(45.6970, -3.9410, -11.1810)  
contains.

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# Color

**YIQ(45.6970, -3.9410,  
-11.1810)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	23361F
RGB	35, 54, 31
RGB Percent	14%, 21%, 12%
CMY	0.8628, 0.7882, 0.8784
CMYK	0.35, 0.00, 0.43, 0.79
HSL	110°, 27%, 17%
HSV	110°, 43%, 21%
XYZ	2.2595, 3.0951, 1.7747
YIQ	45.6970, -3.9410, -11.1810

# Conversions

## Conversions Part 2

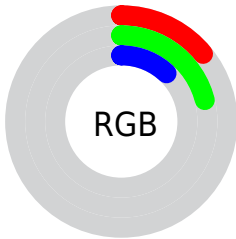
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	31, 54, 50
Decimal	2307615
CIE <sub>Lab</sub>	20.42, -13.22, 12.09
CIE <sub>LCh</sub>	20, 17.910, 137.563
Yxy	3.0951, 0.3169, 0.4341
Android (android.graphics.Color)	4280497695 (0xFF23361F)
YUV	45.6970, -7.2456, -9.3813
Hunter-Lab	17.5928, -7.8622, 6.3340

# Details

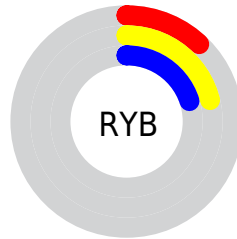
The YIQ color **45.6970, -3.9410, -11.1810** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **39.3030, 3.9410, 11.1810**, and the grayscale version is **46.0000, 0.0000, -0.0000**.

A 20% lighter version of the original color is **91.7570, -4.1700, -12.5380**, and **1.7610, -0.8250, -1.5690** is the 20% darker color. If you saturate the color by 10%, you get **43.9310, -4.7200, -13.5840**, and if you desaturate by 10%, it is **47.4630, -3.1620, -8.7780**.

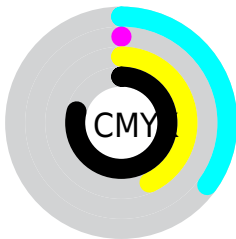
# Distribution



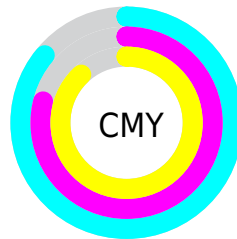
- Red (14%)
- Green (21%)
- Blue (12%)



- Red (12%)
- Yellow (21%)
- Blue (20%)



- Cyan (35%)
- Magenta (0%)
- Yellow (43%)
- Black (79%)



- Cyan (86%)
- Magenta (79%)
- Yellow (88%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 45.6970, -3.9410, -11.1810 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 45.6970, -3.9410, -11.1810 by changing the saturation by 10% instead.



■ 45.6970, -3.9410,  
-11.1810

■ 45.6970, -3.9410,  
-11.1810

■ 255.0000, -0.0000,  
-0.0000

■ 24.7680, -2.7030,  
-11.5910

■ 91.7570, -4.1700,  
-12.5380

■ 1.7610, -0.8250,  
-1.5690

■ 116.6430, -3.8490,  
-12.8490

■ 0.0000, 0.0000,  
0.0000

■ 142.2300, -4.1240,  
-13.3720

■ 168.8170, -4.3990,  
-13.8950

■ 195.8170, -4.3990,  
-13.8950

■ 223.7030, -4.0780,

-14.2060

■ 247.5940, -2.1530,  
-10.5450

■ 45.6970, -3.9410,  
-11.1810

■ 45.6970, -3.9410,  
-11.1810

■ 43.9310, -4.7200,  
-13.5840

■ 47.4630, -3.1620,  
-8.7780

■ 41.7520, -5.7740,  
-16.5100

■ 49.6420, -2.1080,  
-5.8520

■ 39.9860, -6.5530,  
-18.9130

■ 51.4080, -1.3290,  
-3.4490

■ 37.8070, -7.6070,  
-21.8390

■ 53.5870, -0.2750,  
-0.5230

■ 36.0410, -8.3860,  
-24.2420

■ 55.3530, 0.5040,  
1.8800

■ 34.3890, -9.4860,  
-26.3340

■ 57.4180, 1.8790,  
4.4950

■ 59.2980, 2.3370,  
7.2090

■ 61.3630, 3.7120,  
9.8240

■ 63.2430, 4.1700,  
12.5380

# Harmonies

## Analogous

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



47.6230, 8.0710, -8.6090



45.6970, -3.9410, -11.1810



42.8570, -19.0710, -12.3110

# Triad

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



45.6970, -3.9410, -11.1810



44.1570, -28.2430, -0.2670



50.1060, 20.4930, 8.5650

# Complementary

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



45.6970, -3.9410, -11.1810



39.3030, 3.9410, 11.1810

# 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.



50.3920, 13.9360, 11.7600



45.6970, -3.9410, -11.1810



49.1700, -11.9220, 6.8140

# Square

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



45.6970, -3.9410, -11.1810



40.0370, -36.9530, -7.6170



50.8190, 2.4280, 11.0680



49.3030, 21.1360, 2.4160



# Rectangle

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



45.6970, -3.9410, -11.1810



39.0990, -31.4960, -12.9040



50.8190, 2.4280, 11.0680



50.2630, 18.6130, 9.5970

# Sweetspot

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



45.6970, -3.9410, -11.1810



67.8810, -1.2830, -4.2830



49.0300, 8.4830, -5.0610



33.8210, -1.0540, -2.9260



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.



45.6970, -3.9410, -11.1810



57.9260, -6.3240, -17.5560



45.2990, -8.5720, -9.8520



27.0600, -0.2290, -1.3570



58.7880, -15.7640, -44.7240



139.9150, -37.5770, -106.4810



# Inverse Universe

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



39.3030, 3.9410, 11.1810



48.0740, 6.3240, 17.5560



39.7010, 8.5720, 9.8520



26.2390, 0.8250, 1.5690



33.2120, 15.7640, 44.7240

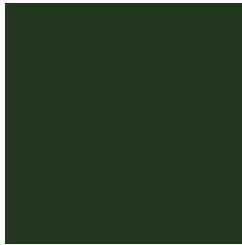


79.0850, 37.5770, 106.4810



# Previews

## White Background



This preview shows how the YIQ color 45.6970, -3.9410, -11.1810 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

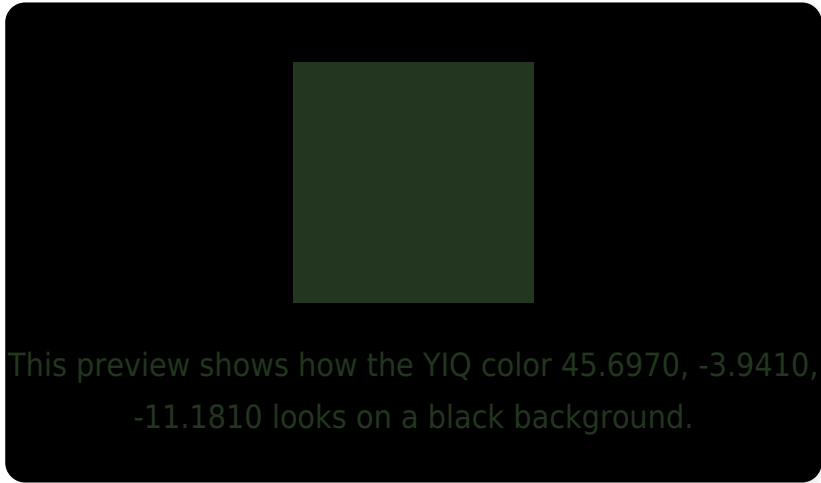
Any Text WCAG AA ✓ Pass

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

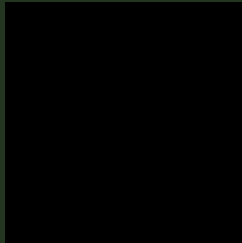
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 45.6970, -3.9410, -11.1810**

## **Background**



This preview shows how black text looks on a background with the YIQ color 45.6970, -3.9410, -11.1810.



This preview shows how white text looks on a background with the YIQ color 45.6970, -3.9410, -11.1810.

-11.1810.

# 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

45.6970, -3.9410, -11.1810

### Protanopia

48.2150, 9.4000, -5.1600

### Deuteranopia

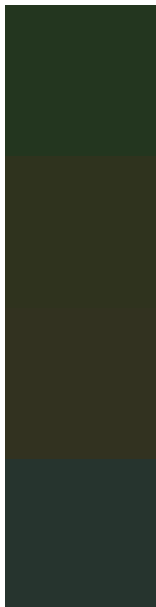
48.9920, 11.6460, -1.8100



## Tritanopia

47.8680, -8.4360, -1.3000

# Trichromacy



## Original Color

45.6970, -3.9410, -11.1810

## Protanomaly

47.4100, 4.3570, -7.3790

## Deuteranomaly

47.9480, 5.7780, -5.5980

## Tritanomaly

47.1300, -6.4180, -4.8340

# Monochromacy



## Original Color

45.6970, -3.9410, -11.1810

## Achromatopsia

46.0000, 0.0000, -0.0000

## Achromatomaly

45.9950, -1.6040, -3.9720

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 45.6970, -3.9410, -11.1810 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(35, 54, 31)` looks like.

```
.text, #text, p{  
    color:rgb(35, 54, 31)  
}
```

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(35, 54, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(35, 54, 31) }
```

## Border

The CSS property to change the border of an element to YIQ 45.6970, -3.9410, -11.1810 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(35, 54, 31) }
```



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

```
.border{ border-color:rgb(35, 54, 31) }
```

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

Here you see how a box with a 4 pixel rgb(35, 54, 31) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(35, 54, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(35, 54, 31);  
box-shadow:4px 4px 4px 4px rgb(35, 54, 31)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 45.6970, -3.9410, -11.1810 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(35, 54, 31) }
```

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

```
.background{ background-color: rgb(35, 54,  
31) }
```

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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