

# Converting Colors

YIQ(37.8350, -12.8370, -4.1410)

Have a look what the booklet for  
YIQ(37.8350, -12.8370, -4.1410)  
contains.

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# Color

**YIQ(37.8350, -12.8370,  
-4.1410)**

# Conversions

## Conversions Part 1

Format	Color
Hex	172C2D
RGB	23, 44, 45
RGB Percent	9%, 17%, 18%
CMY	0.9098, 0.8274, 0.8236
CMYK	0.49, 0.02, 0.00, 0.82
HSL	183°, 32%, 13%
HSV	183°, 49%, 18%
XYZ	1.7275, 2.1734, 2.8098
YIQ	37.8350, -12.8370, -4.1410

# Conversions

## Conversions Part 2

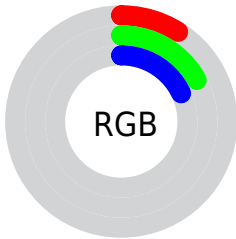
Format	Color
<b>RYB</b>	23, 34, 45
Decimal	1518637
CIELab	16.37, -8.07, -3.29
CIElCh	16, 8.718, 202.154
Yxy	2.1734, 0.2574, 0.3239
Android (android.graphics.Color)	4279708717 (0xFF172C2D)
YUV	37.8350, 3.5323, -13.0103
Hunter-Lab	14.7424, -4.8832, -0.9803

# Details

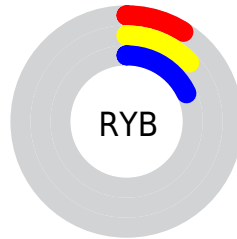
The YIQ color **37.8350, -12.8370, -4.1410** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **30.1650, 12.8370, 4.1410**, and the grayscale version is **38.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **83.5360, -13.4330, -4.3530**, and **0.0000, 0.0000, 0.0000** is the 20% darker color. If you saturate the color by 10%, you get **36.3400, -15.8170, -5.2010**, and if you desaturate by 10%, it is **39.0310, -10.4530, -3.2930**.

# Distribution



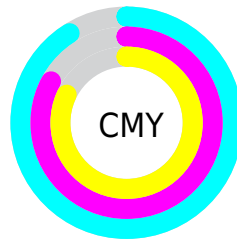
- Red (9%)
- Green (17%)
- Blue (18%)



- Red (9%)
- Yellow (13%)
- Blue (18%)



- Cyan (49%)
- Magenta (2%)
- Yellow (0%)
- Black (82%)



- Cyan (91%)
- Magenta (83%)
- Yellow (82%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 37.8350, -12.8370, -4.1410 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 37.8350, -12.8370, -4.1410 by changing the saturation by 10% instead.



■ 37.8350, -12.8370,  
-4.1410

■ 37.8350, -12.8370,  
-4.1410

■ 254.4020, -1.1920,  
-0.4240

■ 16.8240, -14.3040,  
-5.0880

■ 83.5360, -13.4330,  
-4.3530

■ 0.0000, 0.0000,  
0.0000

■ 107.2370,  
-14.0290, -4.5650


■ 132.9380,  
-14.6250, -4.7770


■ 158.9380,  
-14.6250, -4.7770


■ 185.9380,  
-14.6250, -4.7770


■ 213.6390,


-15.2210, -4.9890


 242.3400,  
-15.8170, -5.2010


 37.8350, -12.8370,  
-4.1410


 37.8350, -12.8370,  
-4.1410


 36.3400, -15.8170,  
-5.2010


 39.0310, -10.4530,  
-3.2930


 35.1440, -18.2010,  
-6.0490


 40.5260, -7.4730,  
-2.2330


 33.0620, -20.9060,  
-6.5860

 42.3090, -5.3640,  
-1.9080

 31.8660, -23.2900,  
-7.4340

 43.8040, -2.3840,  
-0.8480

 30.3710, -26.2700,  
-8.4940

 45.0000, -0.0000,  
-0.0000

■ 46.4950, 2.9800,  
1.0600

■ 47.6910, 5.3640,  
1.9080

■ 49.7730, 8.0690,  
2.4450

■ 50.9690, 10.4530,  
3.2930

# Harmonies

## Analogous

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



38.3470, -8.5270, -5.1590



37.8350, -12.8370, -4.1410



38.1170, -13.5710, -1.8510

# Triad

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



37.8350, -12.8370, -4.1410



41.2440, 2.4290, 5.5410



40.7250, 8.0240, -2.2480

# Complementary

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



37.8350, -12.8370, -4.1410



30.1650, 12.8370, 4.1410

# 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.



41.0890, 9.9950, 0.5790



37.8350, -12.8370, -4.1410



41.4680, 7.6100, 5.2580

# Square

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



37.8350, -12.8370, -4.1410



41.0690, -4.4480, 3.5200



41.0830, 10.1320, 3.6040



39.9200, 2.9810, -4.4670



# Rectangle

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



37.8350, -12.8370, -4.1410



38.9540, -11.5540, 0.1420



41.0830, 10.1320, 3.6040



40.8500, 9.1700, -0.9900

# Sweetspot

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



37.8350, -12.8370, -4.1410



55.7220, -5.0890, -1.3850



36.0280, -6.3710, -11.1950



28.6190, -3.3010, -0.7490



158.0000, -0.0000, 0.0000



31.0000, -0.0000, -0.0000



# Same Dimension

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



37.8350, -12.8370, -4.1410



47.3610, -20.3100, -6.3740



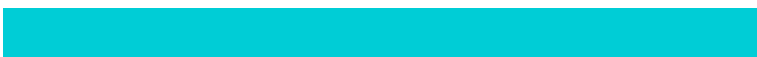
31.3780, -9.8120, 1.6120



22.4020, -1.1920, -0.4240



58.6390, -50.7520, -16.3520



144.7310, -125.0690, -40.6610



# Inverse Universe

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



31.9720, 6.3710, 11.1950



38.2270, 10.2670, 17.6830



36.6220, 9.8120, -1.6120



21.8260, 0.5500, 1.0460



35.4750, 25.2090, 44.2570

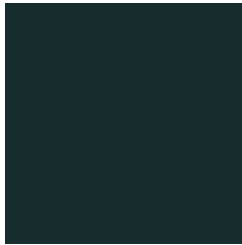


87.3560, 61.7390, 109.1230



# Previews

## White Background



This preview shows how the YIQ color 37.8350, -12.8370, -4.1410 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

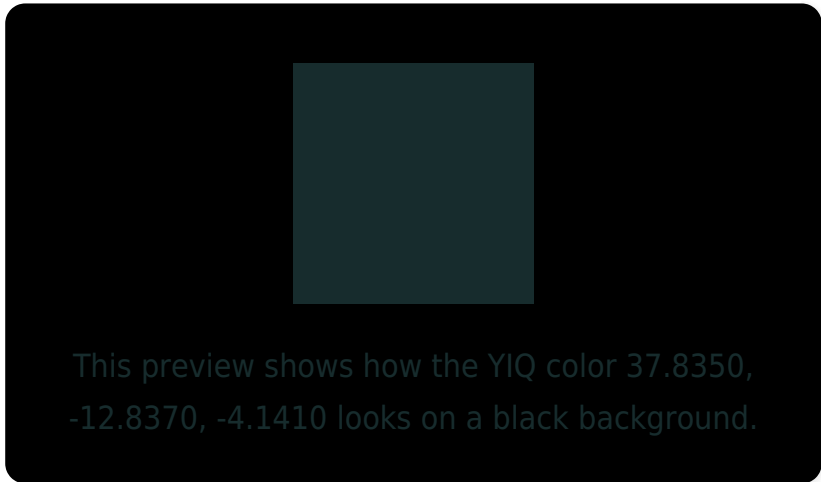
Any Text WCAG AA ✓ Pass

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

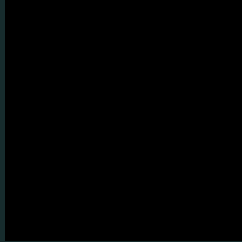
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

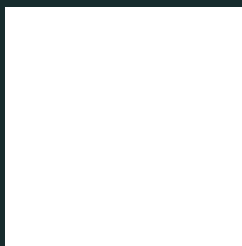
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**YIQ 37.8350, -12.8370, -4.1410**

## **Background**



This preview shows how black text looks on a background with the YIQ color 37.8350, -12.8370, -4.1410.



This preview shows how white text looks on a background with the YIQ color 37.8350, -12.8370,

-4.1410.

# 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

37.8350, -12.8370, -4.1410

### Protanopia

40.6410, -0.3670, 1.1450

### Deuteranopia

40.6950, -0.4590, 2.8130



**Tritanopia**

38.3620, -12.8830, -3.3070

# Trichromacy



## Original Color

37.8350, -12.8370, -4.1410

## Protanomaly

39.2490, -5.1350, -0.5510

## Deuteranomaly

39.7760, -5.1810, 0.2830

## Tritanomaly

38.2480, -12.5620, -3.6180

# Monochromacy



## Original Color

37.8350, -12.8370, -4.1410

## Achromatopsia

38.0000, -0.0000, -0.0000

## Achromatomaly

38.0210, -4.4930, -1.1730

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 37.8350, -12.8370, -4.1410 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(23, 44, 45)` looks like.

```
.text, #text, p{  
    color:rgb(23, 44, 45)  
}
```

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(23, 44, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(23, 44, 45) }
```

## Border

The CSS property to change the border of an element to YIQ 37.8350, -12.8370, -4.1410 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(23, 44, 45) }
```



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

```
.border{ border-color:rgb(23, 44, 45) }
```

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

Here you see how a box with a 4 pixel rgb(23, 44, 45) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(23, 44, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(23, 44, 45);  
box-shadow:4px 4px 4px 4px rgb(23, 44, 45)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 37.8350, -12.8370, -4.1410 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(23, 44, 45) }
```

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

```
.background{ background-color: rgb(23, 44,  
45) }
```

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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