

# Converting Colors

YIQ(37.9440, -30.8160, 29.8560)

Have a look what the booklet for  
YIQ(37.9440, -30.8160, 29.8560)  
contains.

<b>YIQ(37.9440, -30.8160, 29.8560)</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(37.9440, -30.8160,  
29.8560)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1B1B7B
RGB	27, 27, 123
RGB Percent	11%, 11%, 48%
CMY	0.8940, 0.8941, 0.5178
CMYK	0.78, 0.78, 0.00, 0.52
HSL	240°, 64%, 29%
HSV	240°, 78%, 48%
XYZ	4.4163, 2.4459, 18.9618
YIQ	37.9440, -30.8160, 29.8560

# Conversions

## Conversions Part 2

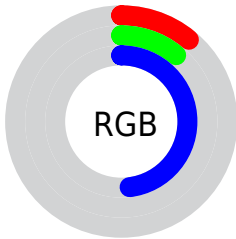
Format	Color
<a href="#">RYB</a>	<a href="#">27, 27, 123</a>
Decimal	<a href="#">1776507</a>
CIELab	<a href="#">17.67, 34.62, -53.63</a>
CIElCh	<a href="#">18, 63.832, 302.839</a>
Yxy	<a href="#">2.4459, 0.1710, 0.0947</a>
Android (android.graphics.Color)	<a href="#">4279966587</a> ( <a href="#">0xFF1B1B7B</a> )
YUV	<a href="#">37.9440, 41.9326, -9.5979</a>
Hunter-Lab	<a href="#">15.6394, 23.0371, -60.9379</a>

# Details

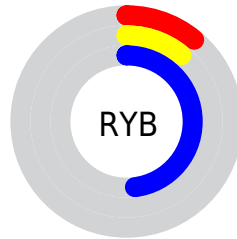
The YIQ color **37.9440, -30.8160, 29.8560** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **112.0560, 30.8160, -29.8560**, and the grayscale version is **38.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **89.0530, -23.5730, 36.2590**, and **8.3220, -23.4330, 22.7030** is the 20% darker color. If you saturate the color by 10%, you get **27.3120, -34.6680, 33.5880**, and if you desaturate by 10%, it is **48.5760, -26.9640, 26.1240**.

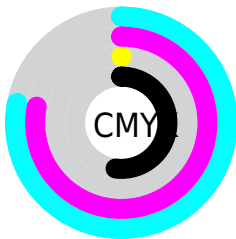
# Distribution



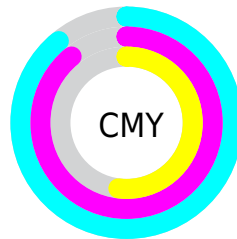
- Red (11%)
- Green (11%)
- Blue (48%)



- Red (11%)
- Yellow (11%)
- Blue (48%)



- Cyan (78%)
- Magenta (78%)
- Yellow (0%)
- Black (52%)



- Cyan (89%)
- Magenta (89%)
- Yellow (52%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 37.9440, -30.8160, 29.8560 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 37.9440, -30.8160, 29.8560 by changing the saturation by 10% instead.



■ 37.9440, -30.8160,  
29.8560

■ 37.9440, -30.8160,  
29.8560

■ 255.0000, -0.0000,  
-0.0000

■ 14.5800, -32.7870,  
27.0290

■ 89.0530, -23.5730,  
36.2590

■ 8.3220, -23.4330,  
22.7030

■ 114.5910,  
-22.1520, 38.0400

■ 7.9340, -16.8290,  
13.1470

■ 140.9440,  
-21.6480, 39.9200

■ 3.6650, -8.9420,  
7.8740

■ 167.0860,  
-19.1720, 39.1000

■ 0.0000, 0.0000,  
0.0000

■ 191.6060, -9.3130,  
31.1270

■ 216.7130, 0.2710,

22.6310

240.3250, 6.8750,  
13.0750

37.9440, -30.8160,  
29.8560

37.9440, -30.8160,  
29.8560

27.3120, -34.6680,  
33.5880

48.5760, -26.9640,  
26.1240

15.7940, -38.8410,  
37.6310

60.0940, -22.7910,  
22.0810

14.0220, -39.4830,  
38.2530

70.7260, -18.9390,  
18.3490

81.3580, -15.0870,  
14.6170

91.9900, -11.2350,  
10.8850

■ 103.5080, -7.0620,  
6.8420

■ 114.1400, -3.2100,  
3.1100

■ 124.7720, 0.6420,  
-0.6220

■ 136.2900, 4.8150,  
-4.6650

# Harmonies

## Analogous

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



45.1960, -58.3690, 17.0790



37.9440, -30.8160, 29.8560



38.8070, 30.2060, 47.3100

# Triad

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



37.9440, -30.8160, 29.8560



37.4540, 45.7560, 7.7720



39.9910, -31.3120, -16.2400

# Complementary

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



37.9440, -30.8160, 29.8560



112.0560, 30.8160, -29.8560

# 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.



33.4590, -15.6750, -29.8110



37.9440, -30.8160, 29.8560



41.0770, 18.2960, -12.2000

# Square

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



37.9440, -30.8160, 29.8560



32.8900, 65.5600, 23.3200



31.1110, -14.5750, -27.7190



45.8220, -46.3530, -2.4570



# Rectangle

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



37.9440, -30.8160, 29.8560



40.2850, 49.0510, 41.6830



31.1110, -14.5750, -27.7190



38.0530, -25.8550, -21.5270

# Sweetspot

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



37.9440, -30.8160, 29.8560



128.2180, -11.8770, 11.5070



94.2960, -57.2160, -20.3520



61.6220, -7.3830, 7.1530



209.0000, 0.0000, 0.0000



82.0000, 0.0000, -0.0000



# Same Dimension

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



37.9440, -30.8160, 29.8560



27.2140, -48.4710, 46.9610



52.2960, -2.2080, 40.0320



55.6840, -1.9260, 1.8660



14.2500, -40.1250, 38.8750



28.7280, -80.8920, 78.3720



# Inverse Universe

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



66.6480, 26.4000, 50.2080



72.3630, 41.5250, 78.9730



97.7040, 2.2080, -40.0320



57.4780, 1.6500, 3.1380



51.6250, 34.3750, 65.3750

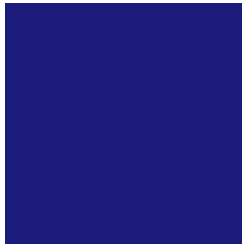


104.0760, 69.3000, 131.7960



# Previews

## White Background



This preview shows how the YIQ color 37.9440, -30.8160, 29.8560 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 37.9440, -30.8160, 29.8560 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

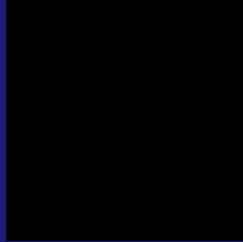
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 37.9440, -30.8160, 29.8560

## Background



This preview shows how black text looks on a background with the YIQ color 37.9440, -30.8160, 29.8560.



This preview shows how white text looks on a background with the YIQ color 37.9440, -30.8160,



# 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

37.9440, -30.8160, 29.8560

### Protanopia

35.5010, -40.7150, 5.5010

### Deuteranopia

35.6660, -37.0460, -0.4220



## Tritanopia

34.6910, -30.1670, -9.4550

# Trichromacy



## Original Color

37.9440, -30.8160, 29.8560

## Protanomaly

36.3370, -36.9570, 14.4910

## Deuteranomaly

36.4850, -34.6180, 10.6460

## Tritanomaly

35.9490, -30.3530, 4.9350

# Monochromacy



## Original Color

37.9440, -30.8160, 29.8560

## Achromatopsia

38.0000, -0.0000, -0.0000

## Achromatomaly

37.9900, -11.2350, 10.8850

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 37.9440, -30.8160, 29.8560 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(27, 27, 123)` looks like.

```
.text, #text, p{  
    color:rgb(27, 27, 123)  
}
```

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(27, 27, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(27, 27, 123) }
```

## Border

The CSS property to change the border of an element to YIQ 37.9440, -30.8160, 29.8560 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(27, 27, 123) }
```



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

```
.border{ border-color:rgb(27, 27, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(27, 27, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(27, 27, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(27, 27, 123);  
box-shadow:4px 4px 4px 4px rgb(27, 27,  
123) }
```

# Background

The CSS property to change the background color of an element to YIQ 37.9440, -30.8160, 29.8560 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(27, 27, 123) }
```

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

```
.background{ background-color: rgb(27, 27,  
123) }
```

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