

# Converting Colors

YIQ(83.0970, -9.6780, 21.2180)

Have a look what the booklet for  
YIQ(83.0970, -9.6780, 21.2180)  
contains.

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# Color

**YIQ(83.0970, -9.6780,  
21.2180)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	574882
RGB	87, 72, 130
RGB Percent	34%, 28%, 51%
CMY	0.6587, 0.7177, 0.4903
CMYK	0.33, 0.45, 0.00, 0.49
HSL	256°, 29%, 40%
HSV	256°, 45%, 51%
XYZ	10.2770, 8.2722, 22.1667
YIQ	83.0970, -9.6780, 21.2180

# Conversions

## Conversions Part 2

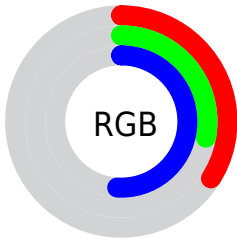
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	87, 72, 130
Decimal	5720194
CIE <sub>Lab</sub>	34.54, 20.34, -30.51
CIE <sub>LCh</sub>	35, 36.671, 303.693
Yxy	8.2722, 0.2524, 0.2032
Android (android.graphics.Color)	4283910274 (0xFF574882)
YUV	83.0970, 23.1232, 3.4229
Hunter-Lab	28.7614, 13.4489, -25.5623

# Details

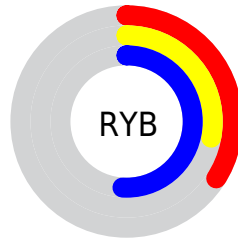
The YIQ color **83.0970, -9.6780, 21.2180** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **118.9030, 9.6780, -21.2180**, and the grayscale version is **83.0000, -0.0000, 0.0000**.

A 20% lighter version of the original color is **133.4500, -9.1740, 23.0980**, and **36.9180, -10.7320, 18.2920** is the 20% darker color. If you saturate the color by 10%, you get **72.4760, -12.0630, 25.8970**, and if you desaturate by 10%, it is **93.7180, -7.2930, 16.5390**.

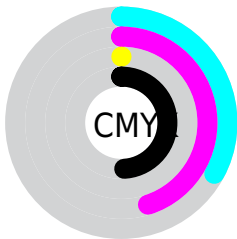
# Distribution



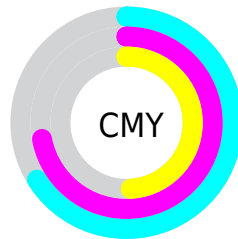
- Red (34%)
- Green (28%)
- Blue (51%)



- Red (34%)
- Yellow (28%)
- Blue (51%)



- Cyan (33%)
- Magenta (45%)
- Yellow (0%)
- Black (49%)



- Cyan (66%)
- Magenta (72%)
- Yellow (49%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 83.0970, -9.6780, 21.2180 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 83.0970, -9.6780, 21.2180 by changing the saturation by 10% instead.



■ 83.0970, -9.6780,  
21.2180

■ 83.0970, -9.6780,  
21.2180

■ 255.0000, -0.0000,  
-0.0000

■ 59.2710, -10.2280,  
20.1720

■ 133.4500, -9.1740,  
23.0980

■ 36.9180, -10.7320,  
18.2920

■ 159.6780, -9.8160,  
23.7200

■ 13.9180, -10.7320,  
18.2920

■ 186.6180, -9.5870,  
25.0770

■ 5.1640, -11.7850,  
9.8390

■ 213.1360, -5.4140,  
21.0340

■ 1.0260, -2.8890,  
2.7990

■ 238.2430, 4.1700,  
12.5380

■ 0.0000, 0.0000,  
0.0000

83.0970, -9.6780,  
21.2180

83.0970, -9.6780,  
21.2180

72.4760, -12.0630,  
25.8970

93.7180, -7.2930,  
16.5390

62.1540, -13.8520,  
30.7880

104.0400, -5.5040,  
11.6480

51.5330, -16.2370,  
35.4670

114.6610, -3.1190,  
6.9690

41.2110, -18.0260,  
40.3580

125.2820, -0.7340,  
2.2900

30.5900, -20.4110,  
45.0370

135.6040, 1.0550,  
-2.6010

24.9860, -21.4660,  
47.6380

146.2250, 3.4400,  
-7.2800

156.5470, 5.2290,  
-12.1710

167.1680, 7.6140,

-16.8500

■ 177.7890, 9.9990,  
-21.5290

# Harmonies

## Analogous

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



70.8460, -54.9280, 4.2720



83.0970, -9.6780, 21.2180



83.4120, 20.3520, 27.6480

# Triad

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



83.0970, -9.6780, 21.2180



79.2650, 41.4940, -3.0980



65.3410, -53.0890, -23.5610

# Complementary

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



83.0970, -9.6780, 21.2180



118.9030, 9.6780, -21.2180

# 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.



65.2320, -33.9690, -28.6650



83.0970, -9.6780, 21.2180



77.4060, 27.3750, -17.0490

# Square

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



83.0970, -9.6780, 21.2180



79.9150, 46.0760, 12.9880



74.3860, 3.7640, -24.1720



68.6470, -62.3980, -14.5420



# Rectangle

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



83.0970, -9.6780, 21.2180



81.6000, 34.3820, 26.6860



74.3860, 3.7640, -24.1720



64.2010, -49.8790, -26.6710

# Sweetspot

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



83.0970, -9.6780, 21.2180



150.3020, -3.4860, 8.1140



103.8530, -30.4430, -4.4510



73.3790, -2.3850, 4.6790



212.0000, -0.0000, -0.0000



84.0000, -0.0000, -0.0000



# Same Dimension

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



83.0970, -9.6780, 21.2180



94.5500, -14.9070, 33.3890



91.4690, 7.0100, 27.1540



58.3960, -1.0550, 2.6010



24.4590, -21.4200, 46.8040



0.0000, 0.0000, 0.0000



# Inverse Universe

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



94.2440, 20.7650, 25.6690



111.9610, 32.4080, 40.4400



110.2320, -7.6060, -27.3660



59.6630, 2.5670, 3.0390



48.9880, 46.1140, 56.3700



0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the YIQ color 83.0970, -9.6780, 21.2180 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 83.0970, -9.6780, 21.2180 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

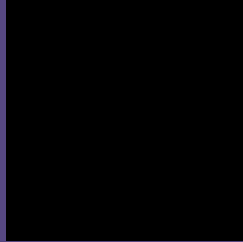
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 83.0970, -9.6780, 21.2180**

## **Background**



This preview shows how black text looks on a background with the YIQ color 83.0970, -9.6780, 21.2180.



This preview shows how white text looks on a background with the YIQ color 83.0970, -9.6780,



# 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

83.0970, -9.6780, 21.2180

### Protanopia

79.0340, -31.7300, 13.3740

### Deuteranopia

78.8830, -29.9870, 9.3170



## Tritanopia

80.9010, -4.0350, 1.5410

# Trichromacy



## Original Color

83.0970, -9.6780, 21.2180

## Protanomaly

80.2200, -23.3860, 16.3420

## Deuteranomaly

80.5250, -22.9270, 13.5290

## Tritanomaly

81.7470, -6.2370, 8.4110

# Monochromacy



## Original Color

83.0970, -9.6780, 21.2180

## Achromatopsia

83.0000, -0.0000, 0.0000

## Achromatomaly

82.8890, -3.7610, 7.5910

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 83.0970, -9.6780, 21.2180 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(87, 72, 130)` looks like.

```
.text, #text, p{  
    color:rgb(87, 72, 130)  
}
```

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(87, 72, 130) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 72, 130) }
```

## Border

The CSS property to change the border of an element to YIQ 83.0970, -9.6780, 21.2180 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(87, 72, 130) }
```



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

```
.border{ border-color:rgb(87, 72, 130) }
```

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

Here you see how a box with a 4 pixel `rgb(87, 72, 130)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 72, 130); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 72, 130);  
box-shadow:4px 4px 4px 4px rgb(87, 72,  
130) }
```

# Background

The CSS property to change the background color of an element to YIQ 83.0970, -9.6780, 21.2180 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 72, 130) }
```

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

```
.background{ background-color: rgb(87, 72,  
130) }
```

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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