

# Converting Colors

YIQ(21.8240, -3.9950, 33.8690)

Have a look what the booklet for  
YIQ(21.8240, -3.9950, 33.8690)  
contains.

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# Color

**YIQ(21.8240, -3.9950,  
33.8690)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	270154
RGB	39, 1, 84
RGB Percent	15%, 0%, 33%
CMY	0.8469, 0.9961, 0.6707
CMYK	0.54, 0.99, 0.00, 0.67
HSL	268°, 98%, 17%
HSV	268°, 99%, 33%
XYZ	2.4482, 1.0932, 8.4653
YIQ	21.8240, -3.9950, 33.8690

# Conversions

## Conversions Part 2

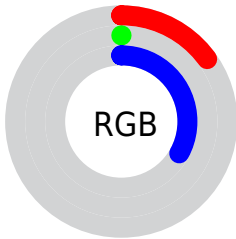
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	39, 1, 84
Decimal	2556244
CIE Lab	9.74, 36.69, -40.97
CIE LCh	10, 55.002, 311.847
Yxy	1.0932, 0.2039, 0.0910
Android (android.graphics.Color)	4280746324 (0xFF270154)
YUV	21.8240, 30.6528, 15.0634
Hunter-Lab	10.4555, 23.4990, -40.6850

# Details

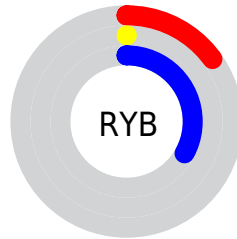
The YIQ color **21.8240, -3.9950, 33.8690** is a dark color, and the websafe version is hex **330066**. A complement of this color would be **63.1760, 3.9950, -33.8690**, and the grayscale version is **22.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **71.3620, -2.5740, 35.6500**, and **5.5060, -12.7480, 10.7720** is the 20% darker color. If you saturate the color by 10%, you get **21.2370, -3.7200, 34.3920**, and if you desaturate by 10%, it is **28.0150, -3.2150, 30.7450**.

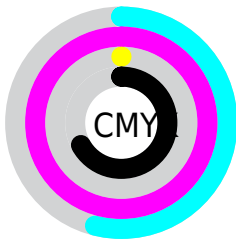
# Distribution



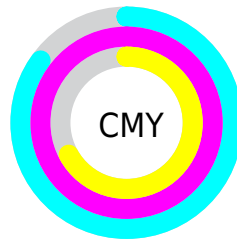
- Red (15%)
- Green (0%)
- Blue (33%)



- Red (15%)
- Yellow (0%)
- Blue (33%)



- Cyan (54%)
- Magenta (99%)
- Yellow (0%)
- Black (67%)



- Cyan (85%)
- Magenta (100%)
- Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 21.8240, -3.9950, 33.8690 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 21.8240, -3.9950, 33.8690 by changing the saturation by 10% instead.



■ 21.8240, -3.9950,  
33.8690

■ 21.8240, -3.9950,  
33.8690

■ 241.4990, 6.3250,  
12.0290

■ 12.6350, -8.2570,  
22.9990

■ 71.3620, -2.5740,  
35.6500

■ 5.5060, -12.7480,  
10.7720

■ 96.1880, -2.0240,  
36.6960

■ 2.1830, -4.7690,  
3.8310

■ 121.4270, -1.1990,  
38.2650


■ 0.0000, 0.0000,  
0.0000


■ 147.9540, -1.2450,  
39.0990


■ 175.1930, -0.4200,  
40.6680


■ 200.5540, 5.6330,


35.5930

 225.0630, 14.0250,  
26.6730


 21.8240, -3.9950,  
33.8690


 21.8240, -3.9950,  
33.8690


 21.2370, -3.7200,  
34.3920

 28.0150, -3.2150,  
30.7450

 34.4940, -3.3060,  
26.8860

 40.6850, -2.5260,  
23.7620

 47.1640, -2.6170,  
19.9030

 53.3550, -1.8370,  
16.7790

■ 59.2470, -1.6530,  
13.4430

■ 66.0250, -1.1480,  
9.7960

■ 71.9170, -0.9640,  
6.4600

■ 78.6950, -0.4590,  
2.8130

# Harmonies

## Analogous

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



28.7650, -41.0380, 16.8660



21.8240, -3.9950, 33.8690



28.8370, 29.5210, 32.1850

# Triad

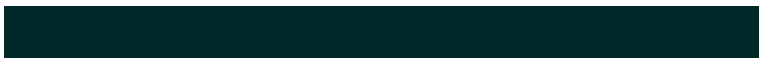
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



21.8240, -3.9950, 33.8690



25.2390, 27.1880, 2.8680



28.1540, -24.1610, -8.1690

# Complementary

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



21.8240, -3.9950, 33.8690



63.1760, 3.9950, -33.8690

# 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.



22.8930, -10.7250, -20.3970



21.8240, -3.9950, 33.8690



23.8890, 4.2660, -11.2380

# Square

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



21.8240, -3.9950, 33.8690



22.4250, 44.7000, 15.9000



22.3060, -10.4500, -19.8740



33.4320, -36.2670, 1.9810



# Rectangle

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



21.8240, -3.9950, 33.8690



28.4930, 41.9930, 26.4170



22.3060, -10.4500, -19.8740



26.6720, -19.9880, -12.2120

# Sweetspot

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



21.8240, -3.9950, 33.8690



85.2470, -1.6530, 13.4430



37.4640, -39.2930, 1.7550



40.9710, -1.0560, 8.1280



184.0000, 0.0000, -0.0000



56.0000, -0.0000, 0.0000



# Same Dimension

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



21.8240, -3.9950, 33.8690



27.4900, -5.5100, 44.8100



34.0830, 20.4410, 42.5610



38.0540, -0.0920, 1.6680



26.3220, -5.0970, 42.8310



58.1420, -11.2960, 94.6240



# Inverse Universe

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



30.9470, 35.0230, 31.5910



39.6160, 46.6210, 41.6690



50.9170, -20.4410, -42.5610



38.4240, 1.7420, 1.4700



37.8930, 44.2830, 39.9870

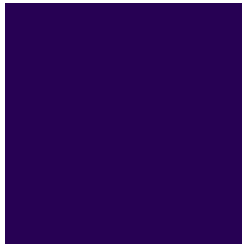


83.7320, 97.8260, 88.3700



# Previews

## White Background



This preview shows how the YIQ color 21.8240, -3.9950, 33.8690 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

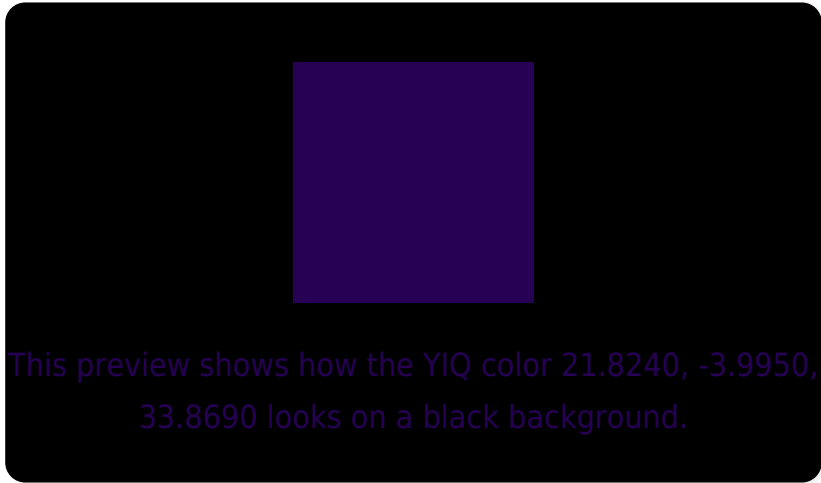
Any Text WCAG AA ✓ Pass

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

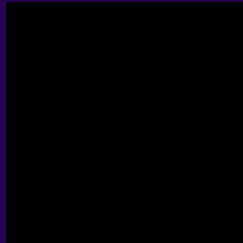
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 21.8240, -3.9950, 33.8690**

## **Background**



This preview shows how black text looks on a background with the YIQ color 21.8240, -3.9950, 33.8690.



This preview shows how white text looks on a background with the YIQ color 21.8240, -3.9950,



# 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

21.8240, -3.9950, 33.8690

### Protanopia

24.7920, -28.4730, 3.9030

### Deuteranopia

24.9400, -26.1340, 0.0580



**Tritanopia**

30.2380, -6.6020, -1.4980

# Trichromacy



## Original Color

21.8240, -3.9950, 33.8690

## Protanomaly

23.4330, -19.6720, 15.1120

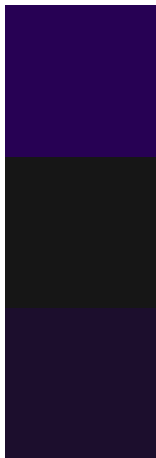
## Deuteranomaly

23.9230, -18.2960, 12.2000

## Tritanomaly

27.0400, -5.5040, 11.6480

# Monochromacy



## Original Color

21.8240, -3.9950, 33.8690

## Achromatopsia

22.0000, -0.0000, -0.0000

## Achromatomaly

21.7200, -1.6070, 12.6090

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 21.8240, -3.9950, 33.8690 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(39, 1, 84)` looks like.

```
.text, #text, p{  
    color:rgb(39, 1, 84)  
}
```

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(39, 1, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(39, 1, 84) }
```

## Border

The CSS property to change the border of an element to YIQ 21.8240, -3.9950, 33.8690 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(39, 1, 84) }
```



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

```
.border{ border-color:rgb(39, 1, 84) }
```

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

Here you see how a box with a 4 pixel `rgb(39, 1, 84)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(39, 1, 84); -webkit-box-shadow:4px  
4px 4px 4px rgb(39, 1, 84); box-shadow:4px  
4px 4px 4px rgb(39, 1, 84) }
```

# Background

The CSS property to change the background color of an element to YIQ 21.8240, -3.9950, 33.8690 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(39, 1, 84) }
```

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

```
.background{ background-color: rgb(39, 1,  
84) }
```

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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