

# Converting Colors

YIQ(46.2490, -21.1890, 37.1070)

Have a look what the booklet for  
YIQ(46.2490, -21.1890, 37.1070)  
contains.

<b>YIQ(46.2490, -21.1890, 37.1070)</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(46.2490, -21.1890,  
37.1070)**

# Conversions

## Conversions Part 1

Format	Color
Hex	311C85
RGB	49, 28, 133
RGB Percent	19%, 11%, 52%
CMY	0.8077, 0.8902, 0.4786
CMYK	0.63, 0.79, 0.00, 0.48
HSL	252°, 65%, 32%
HSV	252°, 79%, 52%
XYZ	5.9138, 3.1761, 22.4764
YIQ	46.2490, -21.1890, 37.1070

# Conversions

## Conversions Part 2

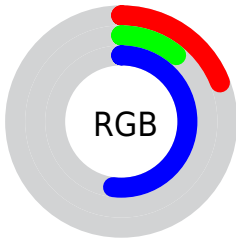
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	49, 28, 133
Decimal	3218565
CIE <sub>Lab</sub>	20.74, 39.78, -54.86
CIE <sub>LCh</sub>	21, 67.770, 305.948
Yxy	3.1761, 0.1873, 0.1006
Android (android.graphics.Color)	4281408645 (0xFF311C85)
YUV	46.2490, 42.7682, 2.4126
Hunter-Lab	17.8216, 28.0446, -62.3007

# Details

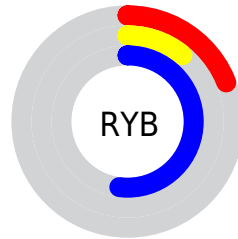
The YIQ color **46.2490, -21.1890, 37.1070** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **114.7510, 21.1890, -37.1070**, and the grayscale version is **46.0000, 0.0000, -0.0000**.

A 20% lighter version of the original color is **97.0370, -17.4760, 41.4040**, and **9.3480, -26.3220, 25.5020** is the 20% darker color. If you saturate the color by 10%, you get **35.3290, -24.1700, 41.5740**, and if you desaturate by 10%, it is **57.1690, -18.2080, 32.6400**.

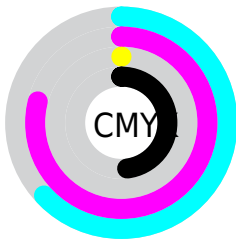
# Distribution



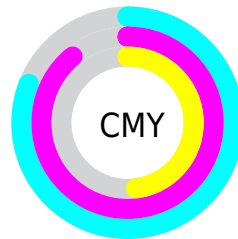
- Red (19%)
- Green (11%)
- Blue (52%)



- Red (19%)
- Yellow (11%)
- Blue (52%)



- Cyan (63%)
- Magenta (79%)
- Yellow (0%)
- Black (48%)



- Cyan (81%)
- Magenta (89%)
- Yellow (48%)
- Black (48%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 46.2490, -21.1890, 37.1070 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 46.2490, -21.1890, 37.1070 by changing the saturation by 10% instead.



■ 46.2490, -21.1890,  
37.1070

■ 46.2490, -21.1890,  
37.1070

■ 255.0000, -0.0000,  
-0.0000

■ 17.5360, -29.4870,  
33.3050

■ 97.0370, -17.4760,  
41.4040

■ 9.3480, -26.3220,  
25.5020

■ 123.2760,  
-16.6510, 42.9730

■ 9.5470, -19.9930,  
15.4230

■ 149.6290,  
-16.1470, 44.8530

■ 5.1640, -11.7850,  
9.8390

■ 174.8160, -9.5440,  
40.8240

■ 1.2540, -3.5310,  
3.4210

■ 199.3360, 0.3150,  
32.8510

■ 0.0000, 0.0000,  
0.0000

■ 224.7420, 10.4950,

24.5670

243.2600, 5.5000,  
10.4600

46.2490, -21.1890,  
37.1070

46.2490, -21.1890,  
37.1070

35.3290, -24.1700,  
41.5740

57.1690, -18.2080,  
32.6400

24.1210, -26.2800,  
46.7760

68.3770, -16.0980,  
27.4380

23.2350, -26.6010,  
47.0870

79.2970, -13.1170,  
22.9710

90.2170, -10.1360,  
18.5040

100.8380, -7.7510,  
13.8250

■ 112.3450, -5.0450,  
8.8350

■ 122.9660, -2.6600,  
4.1560

■ 133.8860, 0.3210,  
-0.3110

■ 145.3930, 3.0270,  
-5.3010

# Harmonies

## Analogous

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



50.3140, -64.5130, 18.2950



46.2490, -21.1890, 37.1070



43.9760, 37.2200, 52.3560

# Triad

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



46.2490, -21.1890, 37.1070



44.8300, 47.4530, 4.5490



46.0550, -37.3640, -16.6920

# Complementary

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



46.2490, -21.1890, 37.1070



114.7510, 21.1890, -37.1070

# 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.



38.1550, -17.8750, -33.9950



46.2490, -21.1890, 37.1070



46.6700, 17.8840, -15.7480

# Square

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



46.2490, -21.1890, 37.1070



36.1790, 72.1160, 25.6520



35.8070, -16.7750, -31.9030



52.3420, -53.6890, -1.6650



# Rectangle

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



46.2490, -21.1890, 37.1070



44.6990, 56.7530, 45.2730



35.8070, -16.7750, -31.9030



44.1170, -31.9070, -21.9790

# Sweetspot

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



46.2490, -21.1890, 37.1070



139.0660, -8.3930, 14.4470



89.2780, -56.8050, -11.2770



66.3450, -5.0450, 8.8350



214.0000, -0.0000, 0.0000



87.0000, -0.0000, -0.0000



# Same Dimension

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



46.2490, -21.1890, 37.1070



37.5630, -32.9760, 58.0000



61.7970, 9.8030, 48.1310



60.9830, -1.3300, 2.0780



22.5940, -26.2340, 45.9420



0.6410, -0.3670, 1.1450



# Inverse Universe

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



68.9710, 35.6160, 48.3840



72.9700, 55.6930, 75.5090



98.9040, -10.3990, -48.3430



62.3640, 1.9710, 2.8270



50.7260, 44.0960, 59.9040

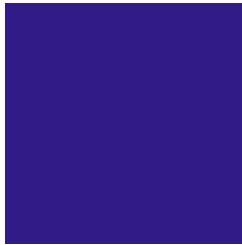


1.1250, 1.1460, 1.2580



# Previews

## White Background



This preview shows how the YIQ color 46.2490, -21.1890, 37.1070 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 46.2490, -21.1890, 37.1070 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

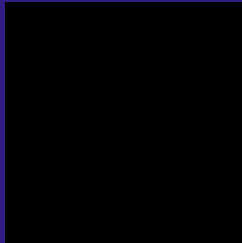
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 46.2490, -21.1890, 37.1070**

## **Background**



This preview shows how black text looks on a background with the YIQ color 46.2490, -21.1890, 37.1070.



This preview shows how white text looks on a background with the YIQ color 46.2490, -21.1890,



# 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

46.2490, -21.1890, 37.1070

### Protanopia

40.5050, -46.5380, 6.4060

### Deuteranopia

40.5560, -42.5480, 0.1720



## Tritanopia

39.8260, -34.9810, -10.3170

# Trichromacy



## Original Color

46.2490, -21.1890, 37.1070

## Protanomaly

42.4450, -37.1410, 17.8270

## Deuteranomaly

42.4790, -34.4810, 13.6710

## Tritanomaly

42.3020, -29.8490, 6.8150

# Monochromacy



## Original Color

46.2490, -21.1890, 37.1070

## Achromatopsia

46.0000, 0.0000, -0.0000

## Achromatomaly

45.8380, -7.7510, 13.8250

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 46.2490, -21.1890, 37.1070 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(49, 28, 133)` looks like.

```
.text, #text, p{  
    color:rgb(49, 28, 133)  
}
```

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(49, 28, 133) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 28, 133) }
```

## Border

The CSS property to change the border of an element to YIQ 46.2490, -21.1890, 37.1070 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(49, 28, 133) }
```



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

```
.border{ border-color:rgb(49, 28, 133) }
```

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

Here you see how a box with a 4 pixel rgb(49, 28, 133) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 28, 133); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 28, 133);  
box-shadow:4px 4px 4px 4px rgb(49, 28,  
133) }
```

# Background

The CSS property to change the background color of an element to YIQ 46.2490, -21.1890, 37.1070 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 28, 133) }
```

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

```
.background{ background-color: rgb(49, 28,  
133) }
```

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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