

# Converting Colors

YIQ(31.8610, -23.7530, 17.4870)

Have a look what the booklet for  
YIQ(31.8610, -23.7530, 17.4870)  
contains.

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# Color

**YIQ(31.8610, -23.7530,  
17.4870)**

# Conversions

## Conversions Part 1

Format	Color
Hex	141B58
RGB	20, 27, 88
RGB Percent	8%, 11%, 35%
CMY	0.9215, 0.8941, 0.6550
CMYK	0.77, 0.69, 0.00, 0.66
HSL	234°, 63%, 21%
HSV	234°, 77%, 34%
XYZ	2.4406, 1.6368, 9.4120
YIQ	31.8610, -23.7530, 17.4870

# Conversions

## Conversions Part 2

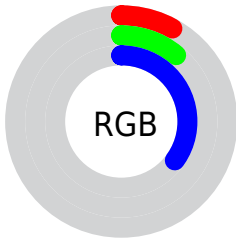
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	20, 26, 88
Decimal	1317720
CIE Lab	13.45, 20.56, -37.65
CIE LCh	13, 42.899, 298.637
Yxy	1.6368, 0.1809, 0.1213
Android (android.graphics.Color)	4279507800 (0xFF141B58)
YUV	31.8610, 27.6765, -10.4021
Hunter-Lab	12.7936, 11.6625, -34.6627

# Details

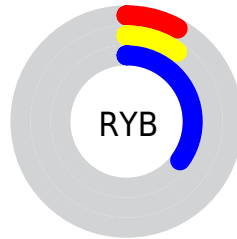
The YIQ color **31.8610, -23.7530, 17.4870** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **76.1390, 23.7530, -17.4870**, and the grayscale version is **32.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **79.3610, -19.1690, 22.5190**, and **6.4350, -13.9860, 11.1820** is the 20% darker color. If you saturate the color by 10%, you get **24.4740, -26.9170, 19.7630**, and if you desaturate by 10%, it is **39.2480, -20.5890, 15.2110**.

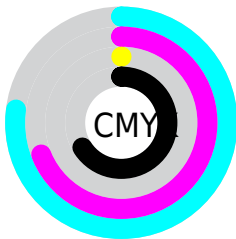
# Distribution



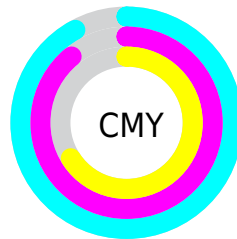
- Red (8%)
- Green (11%)
- Blue (35%)



- Red (8%)
- Yellow (10%)
- Blue (35%)



- Cyan (77%)
- Magenta (69%)
- Yellow (0%)
- Black (66%)



- Cyan (92%)
- Magenta (89%)
- Yellow (66%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 31.8610, -23.7530, 17.4870 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 31.8610, -23.7530, 17.4870 by changing the saturation by 10% instead.



■ 31.8610, -23.7530,  
17.4870

■ 31.8610, -23.7530,  
17.4870

■ 255.0000, -0.0000,  
-0.0000

■ 9.0570, -21.3690,  
18.3350

■ 79.3610, -19.1690,  
22.5190

■ 6.4350, -13.9860,  
11.1820

■ 104.1870,  
-18.6190, 23.5650

■ 2.7530, -6.3740,  
5.3860

■ 129.8280,  
-18.9860, 24.7100

■ 0.0000, 0.0000,  
0.0000

■ 155.7680,  
-18.7570, 26.0670

■ 183.1810,  
-18.4820, 26.5900

■ 208.0860,

-11.1450, 20.2710

■ 233.1930, -1.5610,  
11.7750

■ 31.8610, -23.7530,  
17.4870

■ 31.8610, -23.7530,  
17.4870

■ 24.4740, -26.9170,  
19.7630

■ 39.2480, -20.5890,  
15.2110

■ 17.0870, -30.0810,  
22.0390

■ 46.6350, -17.4250,  
12.9350

■ 15.3150, -30.7230,  
22.6610

■ 53.7230, -14.8570,  
10.4470

■ 61.1100, -11.6930,  
8.1710

■ 67.9100, -8.2540,  
6.4180

■ 75.2970, -5.0900,  
4.1420

■ 82.6840, -1.9260,  
1.8660

■ 89.7720, 0.6420,  
-0.6220

■ 97.1590, 3.8060,  
-2.8980

# Harmonies

## Analogous

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



33.8370, -41.5410, 9.4590



31.8610, -23.7530, 17.4870



28.7310, 18.1960, 33.6840

# Triad

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



31.8610, -23.7530, 17.4870



30.5990, 34.9820, 4.7900



30.6500, -22.9220, -14.1060

# Complementary

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



31.8610, -23.7530, 17.4870



76.1390, 23.7530, -17.4870

# 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.



25.8280, -12.1000, -23.0120



31.8610, -23.7530, 17.4870



32.8260, 17.7450, -7.7190

# Square

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



31.8610, -23.7530, 17.4870



24.7460, 48.2300, 18.0060



28.2530, -2.9310, -18.4750



34.7710, -33.1480, -4.9880



# Rectangle

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



31.8610, -23.7530, 17.4870



29.2780, 32.5930, 31.5770



28.2530, -2.9310, -18.4750



29.5100, -19.7120, -17.2160

# Sweetspot

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



31.8610, -23.7530, 17.4870



92.8390, -9.4920, 6.8280



66.7560, -37.9600, -16.9040



45.1120, -6.0070, 4.2410



186.0000, -0.0000, -0.0000



59.0000, 0.0000, -0.0000



# Same Dimension

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



31.8610, -23.7530, 17.4870



26.6550, -37.3720, 27.5240



35.5260, -6.3320, 26.6600



39.4560, -1.2840, 1.2440



18.6550, -37.3720, 27.5240



40.8780, -82.0350, 60.5330



# Inverse Universe

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



41.1300, 38.2810, 16.5930



41.2470, 60.2410, 26.1050



72.4740, 6.3320, -26.6600



40.1960, 2.3840, 0.8480



33.2470, 60.2410, 26.1050

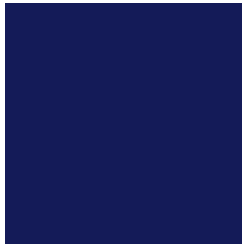


73.0010, 132.3560, 57.2840



# Previews

## White Background



This preview shows how the YIQ color 31.8610, -23.7530, 17.4870 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 31.8610, -23.7530, 17.4870 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

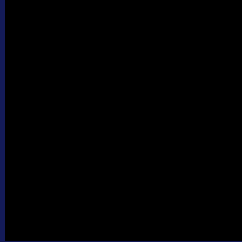
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 31.8610, -23.7530, 17.4870

## Background



This preview shows how black text looks on a background with the YIQ color 31.8610, -23.7530, 17.4870.



This preview shows how white text looks on a background with the YIQ color 31.8610, -23.7530,



# 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

31.8610, -23.7530, 17.4870

### Protanopia

28.1660, -32.4620, 4.6100

### Deuteranopia

28.0860, -29.4810, 0.1430

# Trichromacy



## Original Color

31.8610, -23.7530, 17.4870

## Protanomaly

29.1820, -29.3910, 9.5290

## Deuteranomaly

29.5580, -27.6940, 6.3060

# Monochromacy



## Original Color

31.8610, -23.7530, 17.4870

## Achromatopsia

32.0000, -0.0000, -0.0000

## Achromatomaly

31.9100, -8.2540, 6.4180

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 31.8610, -23.7530, 17.4870 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(20, 27, 88)` looks like.

```
.text, #text, p{  
    color:rgb(20, 27, 88)  
}
```

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(20, 27, 88) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 27, 88) }
```

## Border

The CSS property to change the border of an element to YIQ 31.8610, -23.7530, 17.4870 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(20, 27, 88) }
```

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

```
.border{ border-color:rgb(20, 27, 88) }
```

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

Here you see how a box with a 4 pixel rgb(20, 27, 88) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 27, 88); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 27, 88);  
box-shadow:4px 4px 4px 4px rgb(20, 27, 88)  
}
```



# Background

The CSS property to change the background color of an element to YIQ 31.8610, -23.7530, 17.4870 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(20, 27, 88) }
```

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

```
.background{ background-color: rgb(20, 27,  
88) }
```

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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