

# Converting Colors

YIQ(83.9690, -15.9100, 1.9940)

Have a look what the booklet for  
YIQ(83.9690, -15.9100, 1.9940)  
contains.

<b>YIQ(83.9690, -15.9100, 1.9940)</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(83.9690, -15.9100,  
1.9940)**

# Conversions

## Conversions Part 1

Format	Color
Hex	465769
RGB	70, 87, 105
RGB Percent	27%, 34%, 41%
CMY	0.7255, 0.6588, 0.5883
CMYK	0.33, 0.17, 0.00, 0.59
HSL	211°, 20%, 34%
HSV	211°, 33%, 41%
XYZ	8.4828, 9.1389, 14.6762
YIQ	83.9690, -15.9100, 1.9940

# Conversions

## Conversions Part 2

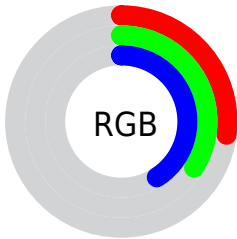
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	70, 81, 105
Decimal	4609897
CIE Lab	36.25, -1.77, -12.46
CIE LCh	36, 12.584, 261.905
Yxy	9.1389, 0.2626, 0.2830
Android (android.graphics.Color)	4282799977 (0xFF465769)
<b>YUV</b>	83.9690, 10.3683, -12.2508
Hunter-Lab	30.2306, -2.8158, -7.6224

# Details

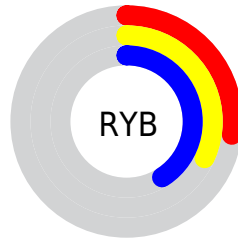
The YIQ color **83.9690, -15.9100, 1.9940** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **91.0310, 15.9100, -1.9940**, and the grayscale version is **84.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **133.7840, -16.8270, 2.0930**, and **38.4420, -15.8640, 1.1600** is the 20% darker color. If you saturate the color by 10%, you get **77.7450, -21.0910, 2.2770**, and if you desaturate by 10%, it is **89.8940, -11.3250, 1.4990**.

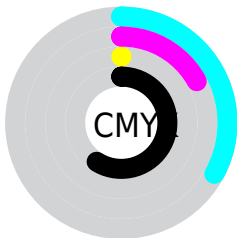
# Distribution



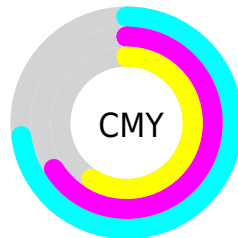
- Red (27%)
- Green (34%)
- Blue (41%)



- Red (27%)
- Yellow (32%)
- Blue (41%)



- Cyan (33%)
- Magenta (17%)
- Yellow (0%)
- Black (59%)



- Cyan (73%)
- Magenta (66%)
- Yellow (59%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 83.9690, -15.9100, 1.9940 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 83.9690, -15.9100, 1.9940 by changing the saturation by 10% instead.



■ 83.9690, -15.9100,  
1.9940

■ 83.9690, -15.9100,  
1.9940

■ 255.0000, -0.0000,  
-0.0000

■ 60.8550, -15.5890,  
1.6830

■ 133.7840,  
-16.8270, 2.0930

■ 38.4420, -15.8640,  
1.1600

■ 159.8980,  
-17.1480, 2.4040

■ 17.3170, -17.0100,  
-0.0980

■ 187.0120,  
-17.4690, 2.7150

■ 2.1830, -4.7690,  
3.8310

■ 215.0120,  
-17.4690, 2.7150

■ 0.0000, 0.0000,  
0.0000

■ 241.6440,  
-13.6170, -1.0170

■ 83.9690, -15.9100,  
1.9940

■ 83.9690, -15.9100,  
1.9940

■ 77.7450, -21.0910,  
2.2770

■ 89.8940, -11.3250,  
1.4990

■ 71.2330, -25.4010,  
3.2950

■ 96.7050, -6.4190,  
0.6930

■ 65.0090, -30.5820,  
3.5780

■ 102.6300, -1.8340,  
0.1980

■ 58.4970, -34.8920,  
4.5960

■ 109.4410, 3.0720,  
-0.6080

■ 52.5720, -39.4770,  
5.0910

■ 115.3660, 7.6570,  
-1.1030

■ 46.3480, -44.6580,  
5.3740

■ 121.5900, 12.8380,  
-1.3860

■ 41.9070, -47.7300,  
5.9820

■ 128.1020, 17.1480,  
-2.4040

■ 134.3260, 22.3290,

-2.6870

■ 140.8380, 26.6390,  
-3.7050

# Harmonies

## Analogous

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



82.2840, -21.4110, -2.9390



83.9690, -15.9100, 1.9940



85.9810, -7.0160, 6.0080

# Triad

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



83.9690, -15.9100, 1.9940



86.3720, 16.6880, 5.9360



82.6910, -3.8040, -8.1560

# Complementary

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



83.9690, -15.9100, 1.9940



91.0310, 15.9100, -1.9940

# 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.



84.0080, 5.5490, -6.9550



83.9690, -15.9100, 1.9940



85.7370, 16.9180, 1.7660

# Square

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



83.9690, -15.9100, 1.9940



86.9140, 12.2860, 8.6220



85.4220, 13.2510, -3.3650



81.6020, -13.7990, -8.7350



# Rectangle

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



83.9690, -15.9100, 1.9940



86.4550, 0.4570, 8.2410



85.4220, 13.2510, -3.3650



83.2460, -1.0530, -8.4530

# Sweetspot

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



83.9690, -15.9100, 1.9940



129.7050, -6.4190, 0.6930



92.4830, -15.0820, -13.0180



64.2600, -3.6680, 0.3960



196.0000, -0.0000, -0.0000



69.0000, -0.0000, -0.0000



# Same Dimension

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



83.9690, -15.9100, 1.9940



104.5320, -24.8050, 3.5070



73.9900, -11.2350, 10.8850



50.4450, -2.7510, 0.2970



46.7970, -53.2320, 6.5760



97.7830, -111.3700, 13.9580



# Inverse Universe

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



82.4030, 15.4030, 12.7070



102.4090, 24.4340, 19.7460



101.0100, 11.2350, -10.8850



50.1360, 2.6130, 2.2050



41.4810, 51.4350, 42.5310

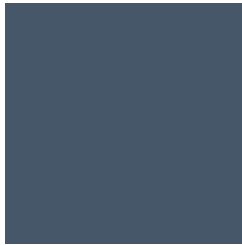


86.8210, 107.8210, 88.9490



# Previews

## White Background



This preview shows how the YIQ color 83.9690, -15.9100, 1.9940 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

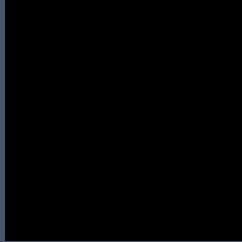
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

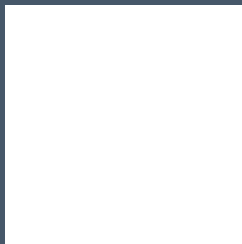
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**YIQ 83.9690, -15.9100, 1.9940**

## **Background**



This preview shows how black text looks on a background with the YIQ color 83.9690, -15.9100, 1.9940.



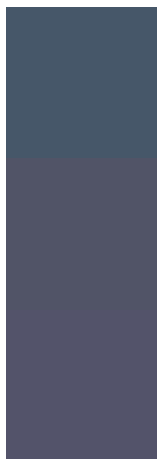
This preview shows how white text looks on a background with the YIQ color 83.9690, -15.9100,



# 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

83.9690, -15.9100, 1.9940

### Protanopia

85.2690, -7.8870, 5.2730

### Deuteranopia

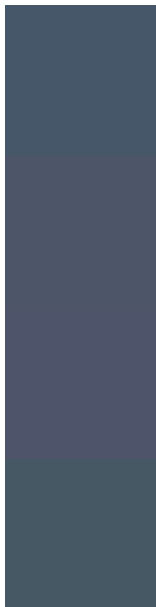
85.6220, -7.3830, 7.1530



## Tritanopia

83.5190, -14.7630, -2.2750

# Trichromacy



## Original Color

83.9690, -15.9100, 1.9940

## Protanomaly

84.7740, -10.8670, 4.2130

## Deuteranomaly

84.7140, -10.6380, 5.5700

## Tritanomaly

83.5730, -14.8550, -0.6070

# Monochromacy



## Original Color

83.9690, -15.9100, 1.9940

## Achromatopsia

84.0000, -0.0000, -0.0000

## Achromatomaly

84.0040, -5.8230, 0.9050

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 83.9690, -15.9100, 1.9940 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(70, 87, 105)` looks like.

```
.text, #text, p{  
    color:rgb(70, 87, 105)  
}
```

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(70, 87, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 87, 105) }
```

## Border

The CSS property to change the border of an element to YIQ 83.9690, -15.9100, 1.9940 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(70, 87, 105) }
```



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

```
.border{ border-color:rgb(70, 87, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 87, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 87, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 87, 105);  
box-shadow:4px 4px 4px 4px rgb(70, 87,  
105) }
```

# Background

The CSS property to change the background color of an element to YIQ 83.9690, -15.9100, 1.9940 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 87, 105) }
```

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

```
.background{ background-color: rgb(70, 87,  
105) }
```

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