

# Converting Colors

YIQ(87.6980, -13.7090, 0.6510)

Have a look what the booklet for  
YIQ(87.6980, -13.7090, 0.6510)  
contains.

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# Color

**YIQ(87.6980, -13.7090,  
0.6510)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4B5B68
RGB	75, 91, 104
RGB Percent	29%, 36%, 41%
CMY	0.7059, 0.6431, 0.5922
CMYK	0.28, 0.12, 0.00, 0.59
HSL	207°, 16%, 35%
HSV	207°, 28%, 41%
XYZ	9.1406, 9.9780, 14.5365
YIQ	87.6980, -13.7090, 0.6510

# Conversions

## Conversions Part 2

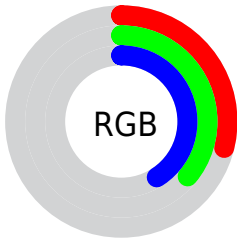
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	75, 85, 104
Decimal	4938600
CIE <sub>Lab</sub>	37.80, -2.83, -9.45
CIE <sub>LCh</sub>	38, 9.870, 253.325
Yxy	9.9780, 0.2716, 0.2965
Android (android.graphics.Color)	4283128680 (0xFF4B5B68)
YUV	87.6980, 8.0369, -11.1361
Hunter-Lab	31.5880, -3.6267, -5.1731

# Details

The YIQ color **87.6980, -13.7090, 0.6510** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **91.3020, 13.7090, -0.6510**, and the grayscale version is **88.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **137.5130, -14.6260, 0.7500**, and **41.8830, -12.7920, 0.5520** is the 20% darker color. If you saturate the color by 10%, you get **81.7730, -18.2940, 1.1460**, and if you desaturate by 10%, it is **93.6230, -9.1240, 0.1560**.

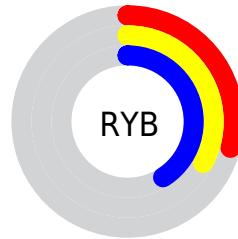
# Distribution



Red (29%)

Green (36%)

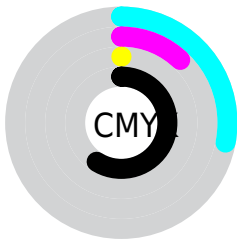
Blue (41%)



Red (29%)

Yellow (33%)

Blue (41%)

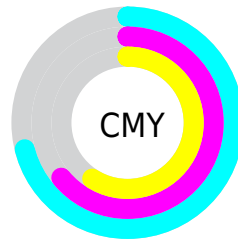


Cyan (28%)

Magenta (12%)

Yellow (0%)

Black (59%)



Cyan (71%)

Magenta (64%)

Yellow (59%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 87.6980, -13.7090, 0.6510 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 87.6980, -13.7090, 0.6510 by changing the saturation by 10% instead.



■ 87.6980, -13.7090,  
0.6510

■ 87.6980, -13.7090,  
0.6510

■ 255.0000, -0.0000,  
-0.0000

■ 64.5840, -13.3880,  
0.3400

■ 137.5130,  
-14.6260, 0.7500

■ 41.8830, -12.7920,  
0.5520

■ 163.6270,  
-14.9470, 1.0610

■ 21.0570, -13.3420,  
-0.4940

■ 191.3280,  
-15.5430, 0.8490

■ 2.0690, -4.4480,  
3.5200

■ 219.3280,  
-15.5430, 0.8490

■ 0.0000, 0.0000,  
0.0000

■ 246.0740,  
-12.0120, -2.5720

■ 87.6980, -13.7090,  
0.6510

■ 87.6980, -13.7090,  
0.6510

■ 81.7730, -18.2940,  
1.1460

■ 93.6230, -9.1240,  
0.1560

■ 76.1360, -23.7500,  
0.9060

■ 99.2600, -3.6680,  
0.3960

■ 70.2110, -28.3350,  
1.4010

■ 105.1850, 0.9170,  
-0.0990

■ 63.9870, -33.5160,  
1.6840

■ 111.4090, 6.0980,  
-0.3820

■ 58.6490, -38.3760,  
1.6560

■ 116.7470, 10.9580,  
-0.3540

■ 52.7240, -42.9610,  
2.1510

■ 122.6720, 15.5430,  
-0.8490

■ 46.5000, -48.1420,  
2.4340

■ 128.8960, 20.7240,  
-1.1320

■ 45.3150, -49.0590,

■ 134.2340, 25.5840,

2.5330

-1.1040

■ 140.4580, 30.7650,  
-1.3870

# Harmonies

## Analogous

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



86.6220, -16.5510, -2.9110



87.6980, -13.7090, 0.6510



88.9270, -6.9240, 4.3400

# Triad

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



87.6980, -13.7090, 0.6510



90.2190, 12.7450, 5.8090



87.3000, -1.1450, -6.7850

# Complementary

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



87.6980, -13.7090, 0.6510



91.3020, 13.7090, -0.6510

# 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.



88.6600, 6.6490, -4.8630



87.6980, -13.7090, 0.6510



90.1820, 14.1670, 2.0630

# Square

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



87.6980, -13.7090, 0.6510



90.5220, 7.5180, 6.9260



89.4050, 11.9210, -1.2870



86.2930, -8.4350, -6.8270



# Rectangle

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



87.6980, -13.7090, 0.6510



90.2050, -1.8350, 5.7250



89.4050, 11.9210, -1.2870



87.4960, 1.2390, -5.9370

# Sweetspot

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



87.6980, -13.7090, 0.6510



128.7760, -5.1810, 0.2830



93.5050, -12.1480, -11.1240



65.1460, -3.3470, 0.0850



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.



87.6980, -13.7090, 0.6510



110.1040, -20.7240, 1.1320



79.4800, -9.8590, 7.9730



48.3310, -2.4300, -0.0140



50.0910, -54.2400, 2.8160



106.2460, -114.5320, 5.1800



# Inverse Universe

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



85.4950, 12.1480, 11.1240



106.8920, 18.5200, 16.7920



99.5200, 9.8590, -7.9730



47.8370, 2.0170, 1.9930



41.5670, 48.3170, 43.9730



87.6340, 101.2180, 92.9780



# Previews

## White Background



This preview shows how the YIQ color 87.6980, -13.7090, 0.6510 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 87.6980, -13.7090, 0.6510 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

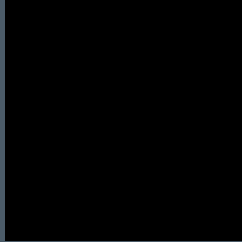
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

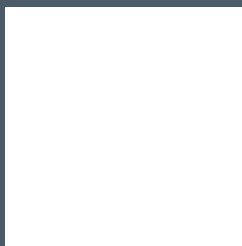
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**YIQ 87.6980, -13.7090, 0.6510**

## **Background**



This preview shows how black text looks on a background with the YIQ color 87.6980, -13.7090, 0.6510.



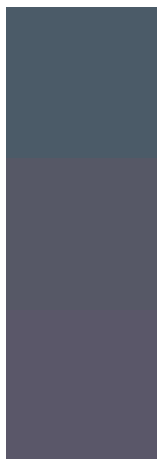
This preview shows how white text looks on a background with the YIQ color 87.6980, -13.7090,

0.6510.

# 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

87.6980, -13.7090, 0.6510

### Protanopia

88.9980, -5.6860, 3.9300

### Deuteranopia

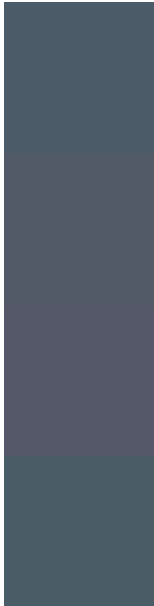
89.9490, -3.9900, 6.2340



## Tritanopia

87.4160, -12.9750, -1.6390

# Trichromacy



## Original Color

87.6980, -13.7090, 0.6510

## Protanomaly

88.5030, -8.6660, 2.8700

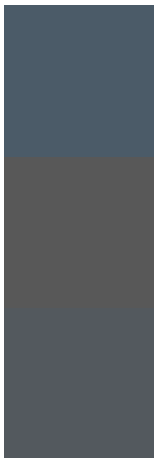
## Deuteranomaly

89.0410, -7.2450, 4.6510

## Tritanomaly

87.6440, -13.6170, -1.0170

# Monochromacy



## Original Color

87.6980, -13.7090, 0.6510

## Achromatopsia

88.0000, -0.0000, -0.0000

## Achromatomaly

87.7760, -5.1810, 0.2830

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 87.6980, -13.7090, 0.6510 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(75, 91, 104)` looks like.

```
.text, #text, p{  
    color:rgb(75, 91, 104)  
}
```

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(75, 91, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(75, 91, 104) }
```

## Border

The CSS property to change the border of an element to YIQ 87.6980, -13.7090, 0.6510 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(75, 91, 104) }
```



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

```
.border{ border-color:rgb(75, 91, 104) }
```

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

Here you see how a box with a 4 pixel rgb(75, 91, 104) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(75, 91, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(75, 91, 104);  
box-shadow:4px 4px 4px 4px rgb(75, 91,  
104) }
```

# Background

The CSS property to change the background color of an element to YIQ 87.6980, -13.7090, 0.6510 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(75, 91, 104) }
```

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

```
.background{ background-color: rgb(75, 91,  
104) }
```

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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