

# Converting Colors

YIQ(88.5670, 20.8130, 13.7810)

Have a look what the booklet for  
YIQ(88.5670, 20.8130, 13.7810)  
contains.

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# Color

**YIQ(88.5670, 20.8130,  
13.7810)**

# Conversions

## Conversions Part 1

Format	Color
Hex	754A59
RGB	117, 74, 89
RGB Percent	46%, 29%, 35%
CMY	0.5411, 0.7099, 0.6509
CMYK	0.00, 0.37, 0.24, 0.54
HSL	339°, 23%, 37%
HSV	339°, 37%, 46%
XYZ	11.5915, 9.4006, 10.6587
YIQ	88.5670, 20.8130, 13.7810

# Conversions

## Conversions Part 2

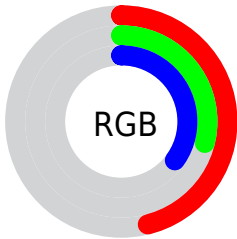
Format	Color
<a href="#">RYB</a>	<a href="#">117, 74, 89</a>
Decimal	<a href="#">7686745</a>
CIELab	<a href="#">36.74, 20.61, -1.24</a>
CIELCh	<a href="#">37, 20.644, 356.567</a>
Yxy	<a href="#">9.4006, 0.3662, 0.2970</a>
Android (android.graphics.Color)	<a href="#">4285876825</a> ( <a href="#">0xFF754A59</a> )
YUV	<a href="#">88.5670, 0.2135, 24.9357</a>
Hunter-Lab	<a href="#">30.6604, 13.8279, 0.8508</a>

# Details

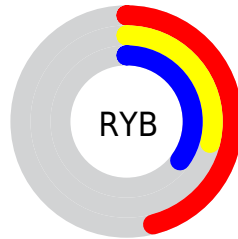
The YIQ color **88.5670, 20.8130, 13.7810** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **102.4330, -20.8130, -13.7810**, and the grayscale version is **89.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **138.8770, 22.8760, 14.9400**, and **42.0720, 17.8330, 12.7210** is the 20% darker color. If you saturate the color by 10%, you get **80.6110, 26.6810, 17.5690**, and if you desaturate by 10%, it is **96.5230, 14.9450, 9.9930**.

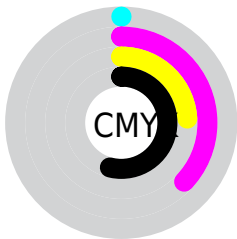
# Distribution



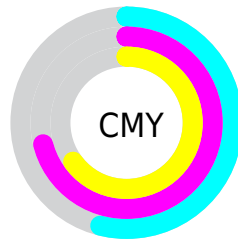
- Red (46%)
- Green (29%)
- Blue (35%)



- Red (46%)
- Yellow (29%)
- Blue (35%)



- Cyan (0%)
- Magenta (37%)
- Yellow (24%)
- Black (54%)



- Cyan (54%)
- Magenta (71%)
- Yellow (65%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 88.5670, 20.8130, 13.7810 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 88.5670, 20.8130, 13.7810 by changing the saturation by 10% instead.



88.5670, 20.8130,  
13.7810

88.5670, 20.8130,  
13.7810

255.0000, -0.0000,  
-0.0000

64.9690, 19.6210,  
13.3570

138.8770, 22.8760,  
14.9400

42.0720, 17.8330,  
12.7210

165.4750, 24.0680,  
15.3640

19.8870, 16.9160,  
12.8200

192.7740, 24.6640,  
15.5760

4.7840, 9.5360,  
3.3920

221.0730, 25.2600,  
15.7880

0.0000, 0.0000,  
0.0000

240.8150, 8.2510,  
10.1630

■ 88.5670, 20.8130,  
13.7810

■ 88.5670, 20.8130,  
13.7810

■ 80.6110, 26.6810,  
17.5690

■ 96.5230, 14.9450,  
9.9930

■ 73.3560, 31.9530,  
21.1450

■ 103.7780, 9.6730,  
6.4170

■ 65.4000, 37.8210,  
24.9330

■ 111.7340, 3.8050,  
2.6290

■ 57.5580, 43.3680,  
29.0320

■ 119.5760, -1.7420,  
-1.4700

■ 49.6020, 49.2360,  
32.8200

■ 126.9450, -7.3350,  
-4.7350

■ 42.2330, 54.8290,  
36.0850

■ 134.9010,  
-13.2030, -8.5230

■ 39.6570, 56.5710,  
37.5550

■ 142.7430,  
-18.7500, -12.6220

■ 150.6990,

-24.6180, -16.4100

■ 158.0680,  
-30.2110, -19.6750

# Harmonies

## Analogous

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



88.8630, 8.2960, 14.8560



88.5670, 20.8130, 13.7810



87.8140, 27.1870, 8.3950

# Triad

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



88.5670, 20.8130, 13.7810



83.7320, 6.1460, -12.2700



78.3510, -40.7130, -5.5530

# Complementary

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



88.5670, 20.8130, 13.7810



102.4330, -20.8130, -13.7810

# 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.



75.6510, -41.8580, -12.3380



88.5670, 20.8130, 13.7810



81.7670, -10.1300, -14.6580

# Square

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



88.5670, 20.8130, 13.7810



85.8370, 19.2120, -6.7720



78.1980, -27.4610, -14.4450



84.0480, -26.3180, 3.3940



# Rectangle

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



88.5670, 20.8130, 13.7810



86.7660, 27.1420, 3.7020



78.1980, -27.4610, -14.4450



76.9870, -42.6840, -8.3800

# Sweetspot

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



88.5670, 20.8130, 13.7810



141.7670, 8.2060, 5.4700



87.2740, 2.8850, 19.3090



70.3320, 4.9970, 3.0530



204.0000, -0.0000, -0.0000



77.0000, -0.0000, -0.0000



# Same Dimension

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



88.5670, 20.8130, 13.7810



108.6550, 32.5490, 21.3570



90.3790, 23.9780, 5.9780



55.0220, 2.9340, 1.8940



41.3800, 58.9090, 39.2370



84.6680, 121.0730, 80.0570



# Inverse Universe

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



88.5670, 20.8130, 13.7810



108.6550, 32.5490, 21.3570



100.6210, -23.9780, -5.9780



55.0220, 2.9340, 1.8940



41.3800, 58.9090, 39.2370

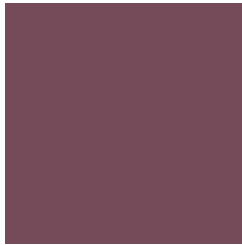


84.6680, 121.0730, 80.0570



# Previews

## White Background



This preview shows how the YIQ color 88.5670, 20.8130, 13.7810 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

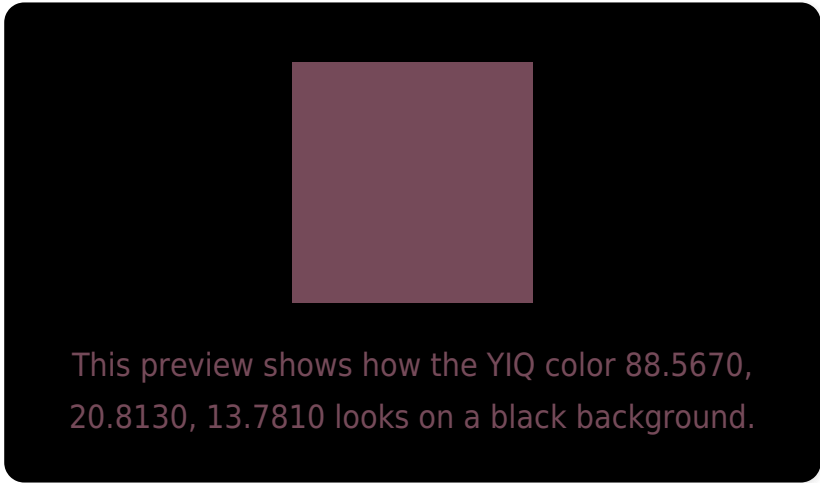
Any Text WCAG AA ✓ Pass

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

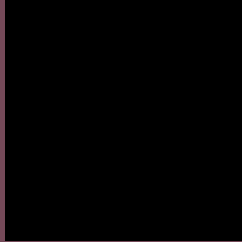
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 88.5670, 20.8130, 13.7810

## Background



This preview shows how black text looks on a background with the YIQ color 88.5670, 20.8130, 13.7810.



This preview shows how white text looks on a background with the YIQ color 88.5670, 20.8130,



# 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

88.5670, 20.8130, 13.7810

### Protanopia

87.1400, -3.2100, 3.1100

### Deuteranopia

87.6310, 5.5930, 3.2650



## Tritanopia

87.9430, 22.5100, 10.5580

# Trichromacy



## Original Color

88.5670, 20.8130, 13.7810

## Protanomaly

87.7390, 5.4090, 6.6010

## Deuteranomaly

87.7890, 11.1400, 7.3640

## Tritanomaly

88.2850, 21.5470, 11.4910

# Monochromacy



## Original Color

88.5670, 20.8130, 13.7810

## Achromatopsia

89.0000, -0.0000, -0.0000

## Achromatomaly

89.0550, 7.3350, 4.7350

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 88.5670, 20.8130, 13.7810 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(117, 74, 89)` looks like.

```
.text, #text, p{  
    color:rgb(117, 74, 89)  
}
```

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(117, 74, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 74, 89) }
```

## Border

The CSS property to change the border of an element to YIQ 88.5670, 20.8130, 13.7810 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(117, 74, 89) }
```



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

```
.border{ border-color:rgb(117, 74, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 74, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 74, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 74, 89);  
box-shadow:4px 4px 4px 4px rgb(117, 74,  
89) }
```

# Background

The CSS property to change the background color of an element to YIQ 88.5670, 20.8130, 13.7810 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 74, 89) }
```

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

```
.background{ background-color: rgb(117, 74,  
89) }
```

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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