

# Converting Colors

YIQ(81.2020, 20.5830, 17.9510)

Have a look what the booklet for  
YIQ(81.2020, 20.5830, 17.9510)  
contains.

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# Color

**YIQ(81.2020, 20.5830,  
17.9510)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	704059
RGB	112, 64, 89
RGB Percent	44%, 25%, 35%
CMY	0.5607, 0.7491, 0.6509
CMYK	0.00, 0.43, 0.21, 0.56
HSL	329°, 27%, 35%
HSV	329°, 43%, 44%
XYZ	10.3224, 7.8330, 10.4226
YIQ	81.2020, 20.5830, 17.9510

# Conversions

## Conversions Part 2

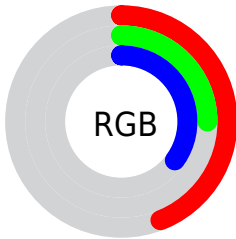
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	112, 64, 89
Decimal	7356505
CIE Lab	33.63, 24.62, -5.92
CIE LCh	34, 25.320, 346.489
Yxy	7.8330, 0.3612, 0.2741
Android (android.graphics.Color)	4285546585 (0xFF704059)
YUV	81.2020, 3.8444, 27.0098
Hunter-Lab	27.9875, 16.8568, -2.4884

# Details

The YIQ color **81.2020, 20.5830, 17.9510** is a dark color, and the websafe version is hex **663366**. A complement of this color would be **94.7980, -20.5830, -17.9510**, and the grayscale version is **81.0000, -0.0000, 0.0000**.

A 20% lighter version of the original color is **131.5120, 22.6460, 19.1100**, and **34.7070, 17.6030, 16.8910** is the 20% darker color. If you saturate the color by 10%, you get **74.1750, 25.2130, 22.1490**, and if you desaturate by 10%, it is **88.2290, 15.9530, 13.7530**.

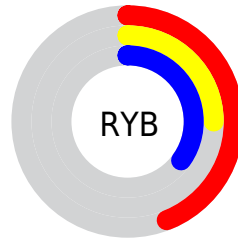
# Distribution



Red (44%)

Green (25%)

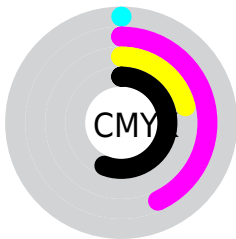
Blue (35%)



Red (44%)

Yellow (25%)

Blue (35%)

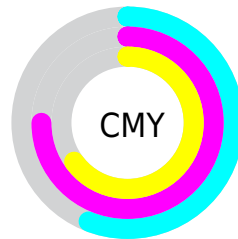


Cyan (0%)

Magenta (43%)

Yellow (21%)

Black (56%)



Cyan (56%)

Magenta (75%)

Yellow (65%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 81.2020, 20.5830, 17.9510 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 81.2020, 20.5830, 17.9510 by changing the saturation by 10% instead.



81.2020, 20.5830,  
17.9510

81.2020, 20.5830,  
17.9510

255.0000, -0.0000,  
-0.0000

57.6040, 19.3910,  
17.5270

131.5120, 22.6460,  
19.1100

34.1200, 17.8780,  
17.4140

157.8110, 23.2420,  
19.3220

14.8810, 17.0530,  
15.8450

184.8220, 24.7090,  
20.2690

0.0000, 0.0000,  
0.0000

213.1210, 25.3050,  
20.4810

234.3580, 11.2760,  
15.9160

251.4780, 1.6500,

3.1380

■ 81.2020, 20.5830,  
17.9510

■ 81.2020, 20.5830,  
17.9510

■ 74.1750, 25.2130,  
22.1490

■ 88.2290, 15.9530,  
13.7530

■ 67.0340, 30.1640,  
26.0360

■ 95.3700, 11.0020,  
9.8660

■ 59.4200, 35.0690,  
30.7570

■ 102.9840, 6.0970,  
5.1450

■ 52.3930, 39.6990,  
34.9550

■ 110.0110, 1.4670,  
0.9470

■ 45.2520, 44.6500,  
38.8420

■ 117.1520, -3.4840,  
-2.9400

■ 40.1000, 48.1340,  
41.7820

■ 124.1790, -8.1140,  
-7.1380

■ 131.3200,  
-13.0650, -11.0250

■ 138.9340,  
-17.9700, -15.7460

■ 145.9610,  
-22.6000, -19.9440

# Harmonies

## Analogous

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



81.6930, 3.0230, 16.8070



81.2020, 20.5830, 17.9510



80.1290, 30.8540, 13.5260

# Triad

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



81.2020, 20.5830, 17.9510



76.3260, 13.1610, -12.7510



63.9680, -58.8680, -12.4360

# Complementary

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



81.2020, 20.5830, 17.9510



94.7980, -20.5830, -17.9510

# 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.



63.0900, -53.6400, -19.0800



81.2020, 20.5830, 17.9510



73.6380, -5.4530, -16.8210

# Square

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



81.2020, 20.5830, 17.9510



78.1860, 25.5390, -5.7970



68.7800, -29.3400, -18.9400



70.5340, -45.4820, -1.7220



# Rectangle

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



81.2020, 20.5830, 17.9510



79.5110, 32.4140, 7.2780



68.7800, -29.3400, -18.9400



63.8710, -57.2170, -14.8250

# Sweetspot

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



81.2020, 20.5830, 17.9510



132.8210, 8.1140, 7.1380



76.0500, -2.2960, 19.5920



66.2720, 5.2260, 4.4100



201.0000, -0.0000, 0.0000



74.0000, -0.0000, 0.0000



# Same Dimension

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



81.2020, 20.5830, 17.9510



97.5720, 31.5850, 27.8170



78.5800, 27.9660, 10.7980



52.1360, 2.6130, 2.2050



42.9480, 51.6180, 44.7220



88.5590, 105.8030, 92.4830



# Inverse Universe

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



81.2020, 20.5830, 17.9510



97.5720, 31.5850, 27.8170



97.4200, -27.9660, -10.7980



52.1360, 2.6130, 2.2050



42.9480, 51.6180, 44.7220

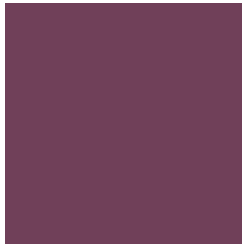


88.5590, 105.8030, 92.4830



# Previews

## White Background



This preview shows how the YIQ color 81.2020, 20.5830, 17.9510 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

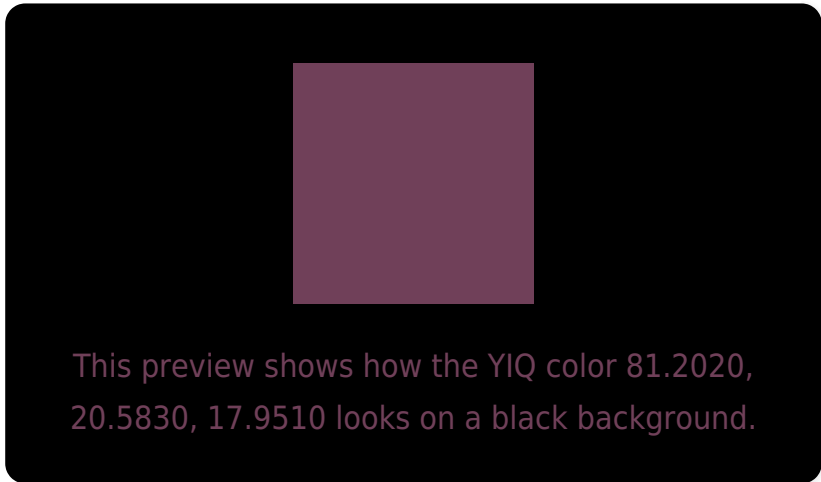
Any Text WCAG AA ✓ Pass

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

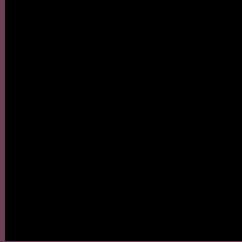
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 81.2020, 20.5830, 17.9510

## Background



This preview shows how black text looks on a background with the YIQ color 81.2020, 20.5830, 17.9510.



This preview shows how white text looks on a background with the YIQ color 81.2020, 20.5830,



# 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

81.2020, 20.5830, 17.9510

### Protanopia

80.0840, -8.8040, 5.3720

### Deuteranopia

80.2330, 0.9620, 4.5940



## Tritanopia

80.4270, 24.0230, 10.6710

# Trichromacy



## Original Color

81.2020, 20.5830, 17.9510

## Protanomaly

80.5800, 1.6030, 9.4990

## Deuteranomaly

80.4020, 7.9760, 9.6400

## Tritanomaly

80.8230, 22.9680, 13.2720

# Monochromacy



## Original Color

81.2020, 20.5830, 17.9510

## Achromatopsia

81.0000, -0.0000, 0.0000

## Achromatomaly

81.1090, 7.2430, 6.4030

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 81.2020, 20.5830, 17.9510 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(112, 64, 89)` looks like.

```
.text, #text, p{  
    color:rgb(112, 64, 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(112, 64, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 64, 89) }
```

## Border

The CSS property to change the border of an element to YIQ 81.2020, 20.5830, 17.9510 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(112, 64, 89) }
```



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

```
.border{ border-color:rgb(112, 64, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(112, 64, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 64, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 64, 89);  
box-shadow:4px 4px 4px 4px rgb(112, 64,  
89) }
```

# Background

The CSS property to change the background color of an element to YIQ 81.2020, 20.5830, 17.9510 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 64, 89) }
```

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

```
.background{ background-color: rgb(112, 64,  
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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