

# Converting Colors

YIQ(81.7990, 31.5430, 6.5430)

Have a look what the booklet for  
YIQ(81.7990, 31.5430, 6.5430)  
contains.

<b>YIQ(81.7990, 31.5430, 6.5430)</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(81.7990, 31.5430,  
6.5430)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	74453A
RGB	116, 69, 58
RGB Percent	45%, 27%, 23%
CMY	0.5450, 0.7295, 0.7724
CMYK	0.00, 0.41, 0.50, 0.54
HSL	11°, 33%, 34%
HSV	11°, 50%, 46%
XYZ	10.0975, 8.2745, 5.0725
YIQ	81.7990, 31.5430, 6.5430

# Conversions

## Conversions Part 2

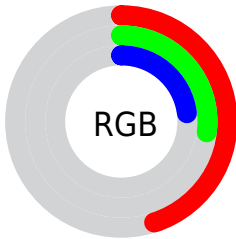
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	116, 72, 58
Decimal	7619898
CIE Lab	34.55, 18.93, 15.19
CIE LCh	35, 24.268, 38.744
Yxy	8.2745, 0.4307, 0.3529
Android (android.graphics.Color)	4285809978 (0xFF74453A)
YUV	81.7990, -11.7329, 29.9943
Hunter-Lab	28.7654, 12.3194, 9.6806

# Details

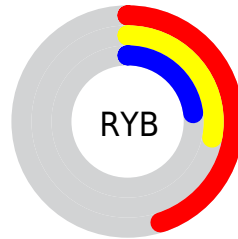
The YIQ color **81.7990, 31.5430, 6.5430** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **92.2010, -31.5430, -6.5430**, and the grayscale version is **82.0000, 0.0000, -0.0000**.

A 20% lighter version of the original color is **132.0660, 35.1650, 6.9810**, and **35.3470, 27.0040, 6.2040** is the 20% darker color. If you saturate the color by 10%, you get **75.1480, 37.8700, 7.5180**, and if you desaturate by 10%, it is **88.4500, 25.2160, 5.5680**.

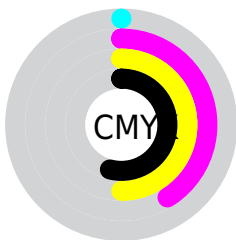
# Distribution



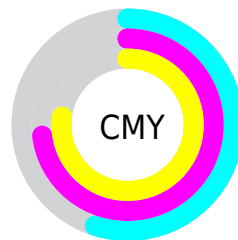
- Red (45%)
- Green (27%)
- Blue (23%)



- Red (45%)
- Yellow (28%)
- Blue (23%)



- Cyan (0%)
- Magenta (41%)
- Yellow (50%)
- Black (54%)




- Cyan (55%)
- Magenta (73%)
- Yellow (77%)


# Brightness & Saturation Gradients

These gradients show how the YIQ color 81.7990, 31.5430, 6.5430 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 81.7990, 31.5430, 6.5430 by changing the saturation by 10% instead.





 81.7990, 31.5430,  
6.5430


 81.7990, 31.5430,  
6.5430


255.0000, -0.0000,  
-0.0000


 58.0160, 29.4340,  
6.2180


 132.0660, 35.1650,  
6.9810


 35.3470, 27.0040,  
6.2040


 158.5500, 36.6780,  
7.0940

 13.1450, 24.7570,  
8.3810

 185.4470, 38.4660,  
7.7300

 0.0000, 0.0000,  
0.0000

 213.3330, 38.7870,  
7.4190

 232.9610, 22.0990,  
1.4830

 252.5890, 5.4110,

-4.4530

■ 81.7990, 31.5430,  
6.5430

■ 81.7990, 31.5430,  
6.5430

■ 75.1480, 37.8700,  
7.5180

■ 88.4500, 25.2160,  
5.5680

■ 68.0240, 44.1510,  
9.3270

■ 95.5740, 18.9350,  
3.7590

■ 61.3730, 50.4780,  
10.3020

■ 102.2250, 12.6080,  
2.7840

■ 54.2490, 56.7590,  
12.1110

■ 109.3490, 6.3270,  
0.9750

■ 47.5980, 63.0860,  
13.0860

■ 116.0000, -0.0000,  
0.0000

■ 122.6510, -6.3270,  
-0.9750

■ 129.7750,  
-12.6080, -2.7840

■ 136.4260,  
-18.9350, -3.7590

■ 143.5500,  
-25.2160, -5.5680

# Harmonies

## Analogous

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



82.6880, 27.7820, 14.1340



81.7990, 31.5430, 6.5430



80.5500, 27.5100, -2.9700

# Triad

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



81.7990, 31.5430, 6.5430



73.0260, -21.2250, -17.3290



79.6510, -23.5220, 7.7900

# Complementary

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



81.7990, 31.5430, 6.5430



92.2010, -31.5430, -6.5430

# 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.



70.9850, -48.3700, -4.4500



81.7990, 31.5430, 6.5430



64.7160, -49.6510, -19.7870

# Square

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



81.7990, 31.5430, 6.5430



76.8020, -0.0430, -15.7470



64.8000, -58.4550, -14.4150



83.3010, -1.7450, 15.1110



# Rectangle

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



81.7990, 31.5430, 6.5430



79.8540, 20.5420, -8.8500



64.8000, -58.4550, -14.4150



77.3510, -31.5450, 4.5110

# Sweetspot

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



81.7990, 31.5430, 6.5430



136.9260, 12.0120, 2.5720



80.7000, 19.4810, 26.9130



68.3600, 7.7940, 1.9220



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.



81.7990, 31.5430, 6.5430



96.8890, 48.9650, 10.1890



98.8220, 23.5680, -8.6240



55.3810, 3.3010, 0.7490



49.9790, 66.3870, 13.8350



102.3390, 136.0750, 28.4190



# Inverse Universe

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



92.2010, -31.5430, -6.5430



113.1110, -48.9650, -10.1890



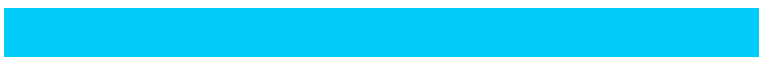
75.1780, -23.5680, 8.6240



56.6190, -3.3010, -0.7490



72.0210, -66.3870, -13.8350



147.6610, -136.0750, -28.4190



# Previews

## White Background



This preview shows how the YIQ color 81.7990, 31.5430, 6.5430 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

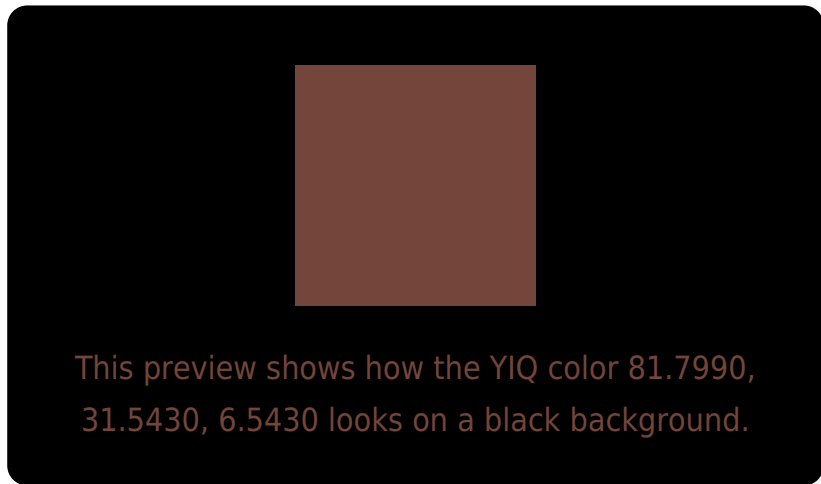
Any Text WCAG AA ✓ Pass

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

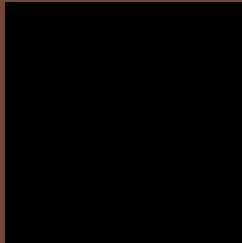
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 81.7990, 31.5430, 6.5430**

## **Background**



This preview shows how black text looks on a background with the YIQ color 81.7990, 31.5430, 6.5430.



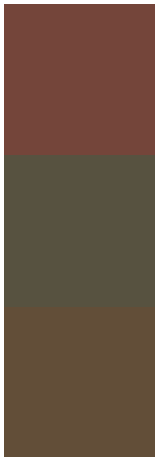
This preview shows how white text looks on a background with the YIQ color 81.7990, 31.5430,



# 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

81.7990, 31.5430, 6.5430

### Protanopia

81.4430, 8.7580, -4.5380

### Deuteranopia

81.4720, 18.9820, -2.6020



## Tritanopia

82.5200, 28.1950, 12.1550

# Trichromacy



## Original Color

81.7990, 31.5430, 6.5430

## Protanomaly

81.5690, 17.3310, -0.2130

## Deuteranomaly

81.9180, 23.6580, 0.7620

## Tritanomaly

82.5370, 29.5250, 10.0770

# Monochromacy



## Original Color

81.7990, 31.5430, 6.5430

## Achromatopsia

82.0000, 0.0000, -0.0000

## Achromatomaly

81.6270, 11.4160, 2.3600

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 81.7990, 31.5430, 6.5430 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(116, 69, 58)` looks like.

```
.text, #text, p{  
    color:rgb(116, 69, 58)  
}
```

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(116, 69, 58) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 69, 58) }
```

## Border

The CSS property to change the border of an element to YIQ 81.7990, 31.5430, 6.5430 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(116, 69, 58) }
```



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

```
.border{ border-color:rgb(116, 69, 58) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 69, 58)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 69, 58); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 69, 58);  
box-shadow:4px 4px 4px 4px rgb(116, 69,  
58) }
```

# Background

The CSS property to change the background color of an element to YIQ 81.7990, 31.5430, 6.5430 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 69, 58) }
```

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

```
.background{ background-color: rgb(116, 69,  
58) }
```

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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