

# Converting Colors

YIQ(64.7700, 21.3190, 4.6070)

Have a look what the booklet for  
YIQ(64.7700, 21.3190, 4.6070)  
contains.

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# Color

**YIQ(64.7700, 21.3190,  
4.6070)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	583831
RGB	88, 56, 49
RGB Percent	35%, 22%, 19%
CMY	0.6548, 0.7804, 0.8078
CMYK	0.00, 0.36, 0.44, 0.65
HSL	11°, 28%, 27%
HSV	11°, 44%, 35%
XYZ	5.9946, 5.1246, 3.5815
YIQ	64.7700, 21.3190, 4.6070

# Conversions

## Conversions Part 2

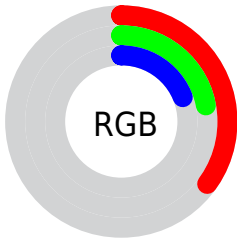
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	88, 58, 49
Decimal	5781553
CIE <sub>Lab</sub>	27.09, 13.31, 10.21
CIE <sub>LCh</sub>	27, 16.771, 37.487
Yxy	5.1246, 0.4078, 0.3486
Android (android.graphics.Color)	4283971633 (0xFF583831)
YUV	64.7700, -7.7746, 20.3727
Hunter-Lab	22.6375, 7.6526, 6.4661

# Details

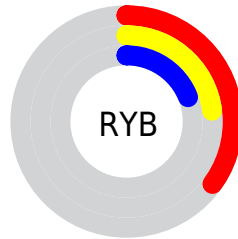
The YIQ color **64.7700, 21.3190, 4.6070** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **72.2300, -21.3190, -4.6070**, and the grayscale version is **65.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **112.8520, 24.0240, 5.1440**, and **20.1180, 20.2190, 2.5150** is the 20% darker color. If you saturate the color by 10%, you get **59.6350, 26.1330, 5.4690**, and if you desaturate by 10%, it is **69.9050, 16.5050, 3.7450**.

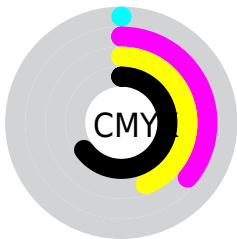
# Distribution



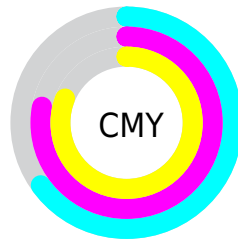
- Red (35%)
- Green (22%)
- Blue (19%)



- Red (35%)
- Yellow (23%)
- Blue (19%)



- Cyan (0%)
- Magenta (36%)
- Yellow (44%)
- Black (65%)



- Cyan (65%)
- Magenta (78%)
- Yellow (81%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 64.7700, 21.3190, 4.6070 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 64.7700, 21.3190, 4.6070 by changing the saturation by 10% instead.



■ 64.7700, 21.3190,  
4.6070

■ 64.7700, 21.3190,  
4.6070

■ 255.0000, -0.0000,  
-0.0000

■ 42.2860, 19.8060,  
4.4940

■ 112.8520, 24.0240,  
5.1440

■ 20.1180, 20.2190,  
2.5150

■ 138.4500, 25.2160,  
5.5680

■ 0.5980, 1.1920,  
0.4240

■ 165.0480, 26.4080,  
5.9920

■ 0.0000, 0.0000,  
0.0000

■ 192.2330, 27.3250,  
5.8930

■ 220.4180, 28.2420,  
5.7940

■ 241.2420, 13.9380,

0.7060

■ 64.7700, 21.3190,  
4.6070

■ 64.7700, 21.3190,  
4.6070

■ 59.6350, 26.1330,  
5.4690

■ 69.9050, 16.5050,  
3.7450

■ 54.5000, 30.9470,  
6.3310

■ 75.0400, 11.6910,  
2.8830

■ 48.8920, 35.7150,  
8.0270

■ 80.6480, 6.9230,  
1.1870

■ 43.7570, 40.5290,  
8.8890

■ 85.7830, 2.1090,  
0.3250

■ 38.6220, 45.3430,  
9.7510

■ 90.9180, -2.7050,  
-0.5370

■ 35.7040, 48.0480,  
10.2880

■ 96.0530, -7.5190,  
-1.3990

■ 101.7750,  
-12.6080, -2.7840

■ 106.7960,  
-17.1010, -3.9570

■ 111.9310,  
-21.9150, -4.8190

# Harmonies

## Analogous

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



65.2630, 18.6130, 9.5970



64.7700, 21.3190, 4.6070



64.1130, 18.6150, -1.4570

# Triad

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



64.7700, 21.3190, 4.6070



59.2060, -12.7440, -11.3360



62.9630, -15.7730, 5.0190

# Complementary

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



64.7700, 21.3190, 4.6070



72.2300, -21.3190, -4.6070

# 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.



59.4020, -27.5550, -1.7230



64.7700, 21.3190, 4.6070



56.7900, -26.1320, -10.9960

# Square

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



64.7700, 21.3190, 4.6070



61.5620, 0.8730, -10.3190



55.7770, -33.2850, -8.0130



65.7260, -1.7440, 9.5840



# Rectangle

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



64.7700, 21.3190, 4.6070



63.4390, 14.5810, -5.4430



55.7770, -33.2850, -8.0130



62.3430, -19.8990, 2.7010

# Sweetspot

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



64.7700, 21.3190, 4.6070



105.6590, 8.3900, 2.1340



64.4230, 12.6510, 18.5310



53.1640, 5.4100, 1.0740



186.0000, -0.0000, -0.0000



59.0000, 0.0000, -0.0000



# Same Dimension

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



64.7700, 21.3190, 4.6070



78.6960, 33.3310, 7.1790



75.9230, 16.0940, -5.3300



40.7830, 2.1090, 0.3250



43.1460, 58.5470, 12.7470



94.9190, 128.5100, 27.8540



# Inverse Universe

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



72.2300, -21.3190, -4.6070



90.3040, -33.3310, -7.1790



61.0770, -16.0940, 5.3300



41.8040, -2.3840, -0.8480



63.8540, -58.5470, -12.7470



140.0810, -128.5100, -27.8540



# Previews

## White Background



This preview shows how the YIQ color 64.7700, 21.3190, 4.6070 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

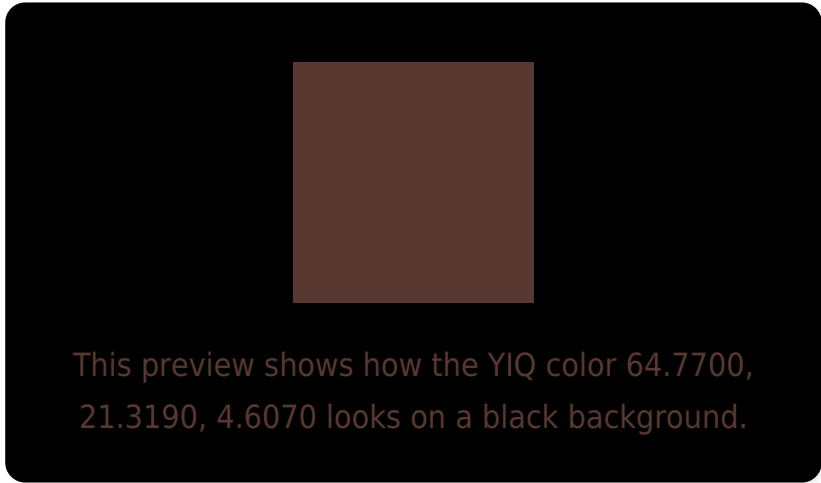
Any Text WCAG AA ✓ Pass

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

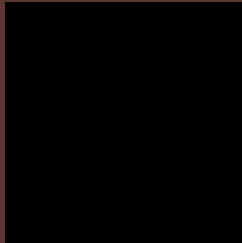
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 64.7700, 21.3190, 4.6070**

## **Background**



This preview shows how black text looks on a background with the YIQ color 64.7700, 21.3190, 4.6070.



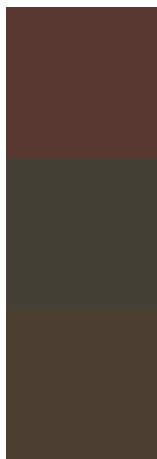
This preview shows how white text looks on a background with the YIQ color 64.7700, 21.3190,



# 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

64.7700, 21.3190, 4.6070

### Protanopia

63.9420, 5.9150, -2.5730

### Deuteranopia

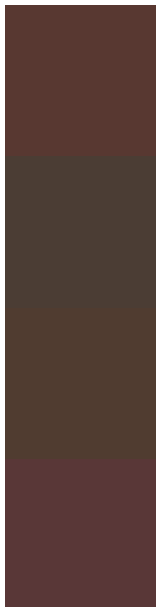
64.5900, 12.8380, -1.3860



## Tritanopia

65.6220, 18.9800, 8.4520

# Trichromacy



## Original Color

64.7700, 21.3190, 4.6070

## Protanomaly

64.1600, 11.2330, 0.1690

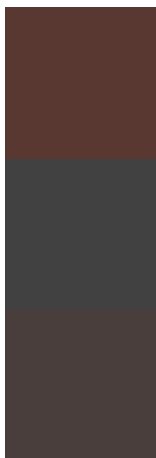
## Deuteranomaly

64.6120, 15.7720, 0.5080

## Tritanomaly

65.1660, 20.2640, 7.2080

# Monochromacy



## Original Color

64.7700, 21.3190, 4.6070

## Achromatopsia

65.0000, -0.0000, -0.0000

## Achromatomaly

64.9470, 7.5190, 1.3990

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 64.7700, 21.3190, 4.6070 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(88, 56, 49)` looks like.

```
.text, #text, p{  
    color:rgb(88, 56, 49)  
}
```

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(88, 56, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(88, 56, 49) }
```

## Border

The CSS property to change the border of an element to YIQ 64.7700, 21.3190, 4.6070 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(88, 56, 49) }
```



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

```
.border{ border-color:rgb(88, 56, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(88, 56, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(88, 56, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(88, 56, 49);  
box-shadow:4px 4px 4px 4px rgb(88, 56, 49)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 64.7700, 21.3190, 4.6070 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(88, 56, 49) }
```

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

```
.background{ background-color: rgb(88, 56,  
49) }
```

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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