

# Converting Colors

YIQ(46.5330, 36.4890, 38.0650)

Have a look what the booklet for  
YIQ(46.5330, 36.4890, 38.0650)  
contains.

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# Color

**YIQ(46.5330, 36.4890,  
38.0650)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	690C47
RGB	105, 12, 71
RGB Percent	41%, 5%, 28%
CMY	0.5880, 0.9531, 0.7215
CMYK	0.00, 0.89, 0.32, 0.59
HSL	322°, 80%, 23%
HSV	322°, 89%, 41%
XYZ	7.1026, 3.7245, 6.3100
YIQ	46.5330, 36.4890, 38.0650

# Conversions

## Conversions Part 2

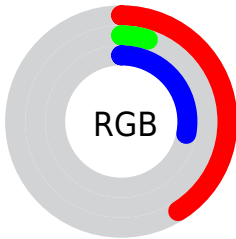
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	105, 12, 71
Decimal	6884423
CIE <sub>Lab</sub>	22.74, 43.62, -10.61
CIE <sub>LCh</sub>	23, 44.895, 346.336
Yxy	3.7245, 0.4145, 0.2173
Android (android.graphics.Color)	4285074503 (0xFF690C47)
YUV	46.5330, 12.0622, 51.2756
Hunter-Lab	19.2990, 31.9199, -5.8763

# Details

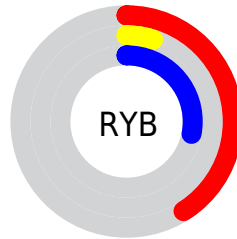
The YIQ color **46.5330, 36.4890, 38.0650** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **70.4670, -36.4890, -38.0650**, and the grayscale version is **46.0000, 0.0000, -0.0000**.

A 20% lighter version of the original color is **101.9090, 38.1860, 34.8420**, and **19.3380, 23.1960, 20.1560** is the 20% darker color. If you saturate the color by 10%, you get **39.6200, 40.7980, 42.5740**, and if you desaturate by 10%, it is **52.8590, 32.4550, 34.0790**.

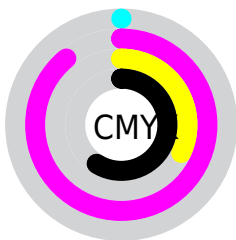
# Distribution



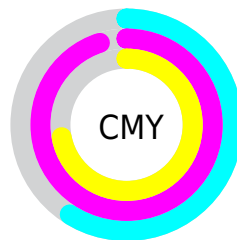
- Red (41%)
- Green (5%)
- Blue (28%)



- Red (41%)
- Yellow (5%)
- Blue (28%)



- Cyan (0%)
- Magenta (89%)
- Yellow (32%)
- Black (59%)



- Cyan (59%)
- Magenta (95%)
- Yellow (72%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 46.5330, 36.4890, 38.0650 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 46.5330, 36.4890, 38.0650 by changing the saturation by 10% instead.



46.5330, 36.4890,  
38.0650

46.5330, 36.4890,  
38.0650

255.0000, -0.0000,  
-0.0000

29.2070, 31.3550,  
31.9870

101.9090, 38.1860,  
34.8420

19.3380, 23.1960,  
20.1560

127.9200, 39.6530,  
35.7890

7.5890, 14.5790,  
5.6110

155.5180, 40.8450,  
36.2130


0.0000, 0.0000,  
0.0000


183.1160, 42.0370,  
36.6370


204.8480, 30.9880,  
33.1320


224.4760, 14.3000,


27.1960


 241.4990, 6.3250,  
12.0290


 46.5330, 36.4890,  
38.0650


 46.5330, 36.4890,  
38.0650


 39.6200, 40.7980,  
42.5740


 52.8590, 32.4550,  
34.0790

 39.0330, 41.0730,  
43.0970

 59.7720, 28.1460,  
29.5700

 66.0980, 24.1120,  
25.5840

 72.8970, 20.1240,  
20.7640

 79.8100, 15.8150,  
16.2550

■ 86.1360, 11.7810,  
12.2690

■ 93.0490, 7.4720,  
7.7600

■ 99.3750, 3.4380,  
3.7740

■ 106.2880, -0.8710,  
-0.7350

# Harmonies

## Analogous

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



55.0820, 3.8460, 29.4300



46.5330, 36.4890, 38.0650



42.2170, 51.7580, 31.1660

# Triad

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



46.5330, 36.4890, 38.0650



49.2950, 14.4460, -19.5220



50.9570, -51.1670, -3.3190

# Complementary

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



46.5330, 36.4890, 38.0650



70.4670, -36.4890, -38.0650

# 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.



48.7110, -42.0870, -13.6950



46.5330, 36.4890, 38.0650



38.1550, -17.8750, -33.9950

# Square

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



46.5330, 36.4890, 38.0650



51.5090, 34.7550, -7.6210



44.1340, -30.5770, -24.0570



50.6610, -55.8450, 4.3710



# Rectangle

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



46.5330, 36.4890, 38.0650



47.0190, 51.7150, 15.4190



44.1340, -30.5770, -24.0570



50.5180, -48.5530, -6.6410

# Sweetspot

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



46.5330, 36.4890, 38.0650



114.6850, 14.6690, 14.9970



32.4690, -10.1850, 35.9190



55.1740, 8.6180, 9.0180



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.



46.5330, 36.4890, 38.0650



51.1800, 54.3210, 56.3130



41.4030, 50.9340, 24.0700



50.2500, 2.2920, 2.5160



43.4190, 45.9780, 47.8180



90.9250, 96.2650, 100.1450



# Inverse Universe

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



46.5330, 36.4890, 38.0650



51.1800, 54.3210, 56.3130



75.5970, -50.9340, -24.0700



50.2500, 2.2920, 2.5160



43.4190, 45.9780, 47.8180

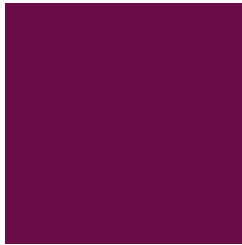


90.9250, 96.2650, 100.1450



# Previews

## White Background



This preview shows how the YIQ color 46.5330, 36.4890, 38.0650 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

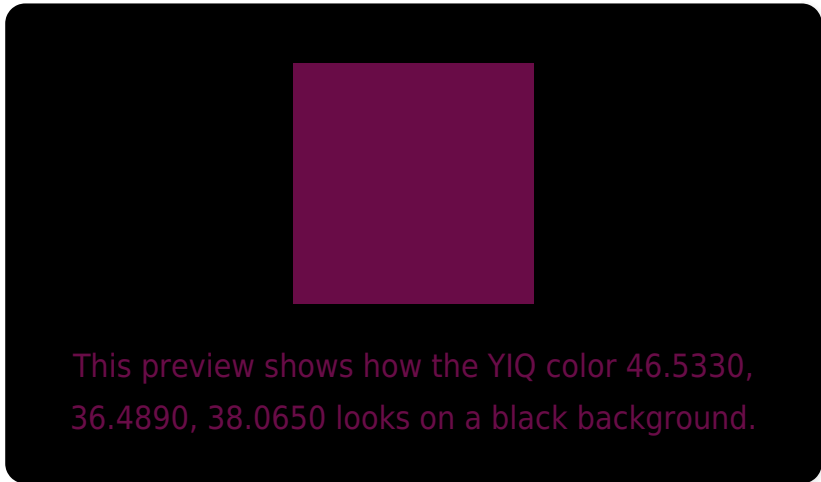
Any Text WCAG AA ✓ Pass

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

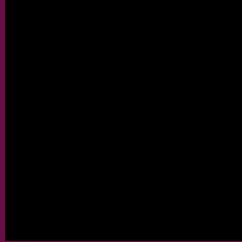
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 46.5330, 36.4890, 38.0650**

## **Background**



This preview shows how black text looks on a background with the YIQ color 46.5330, 36.4890, 38.0650.



This preview shows how white text looks on a background with the YIQ color 46.5330, 36.4890,



# 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

46.5330, 36.4890, 38.0650

### Protanopia

54.7480, -25.1730, 10.1790

### Deuteranopia

57.1510, -1.7430, 4.0570



## Tritanopia

51.6420, 42.5910, 15.5750

# Trichromacy



## Original Color

46.5330, 36.4890, 38.0650

## Protanomaly

51.5770, -2.3420, 20.4260

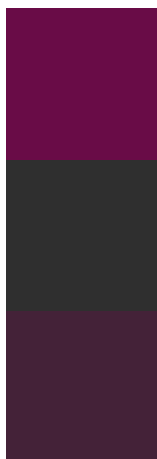
## Deuteranomaly

53.0700, 12.1470, 16.6510

## Tritanomaly

49.5420, 40.2970, 24.1130

# Monochromacy



## Original Color

46.5330, 36.4890, 38.0650

## Achromatopsia

47.0000, 0.0000, 0.0000

## Achromatomaly

46.6740, 13.2020, 14.0500

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 46.5330, 36.4890, 38.0650 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(105, 12, 71)` looks like.

```
.text, #text, p{  
    color:rgb(105, 12, 71)  
}
```

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(105, 12, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(105, 12, 71) }
```

## Border

The CSS property to change the border of an element to YIQ 46.5330, 36.4890, 38.0650 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(105, 12, 71) }
```



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

```
.border{ border-color:rgb(105, 12, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(105, 12, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(105, 12, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(105, 12, 71);  
box-shadow:4px 4px 4px 4px rgb(105, 12,  
71) }
```

# Background

The CSS property to change the background color of an element to YIQ 46.5330, 36.4890, 38.0650 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(105, 12, 71) }
```

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

```
.background{ background-color: rgb(105, 12,  
71) }
```

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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