

# Converting Colors

YIQ(70.8530, -10.9660, 44.5700)

Have a look what the booklet for  
YIQ(70.8530, -10.9660, 44.5700)  
contains.

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# Color

**YIQ(70.8530, -10.9660,  
44.5700)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	582D9F
RGB	88, 45, 159
RGB Percent	35%, 18%, 62%
CMY	0.6547, 0.8236, 0.3766
CMYK	0.45, 0.72, 0.00, 0.38
HSL	263°, 56%, 40%
HSV	263°, 72%, 62%
XYZ	11.2215, 6.4543, 33.4400
YIQ	70.8530, -10.9660, 44.5700

# Conversions

## Conversions Part 2

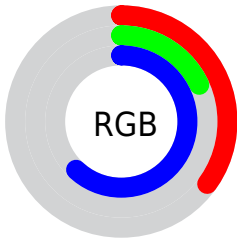
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	88, 45, 159
Decimal	5778847
CIE <sub>Lab</sub>	30.53, 44.72, -54.71
CIE <sub>LCh</sub>	31, 70.664, 309.263
Yxy	6.4543, 0.2195, 0.1263
Android (android.graphics.Color)	4283968927 (0xFF582D9F)
YUV	70.8530, 43.4565, 15.0379
Hunter-Lab	25.4053, 34.3837, -60.2571

# Details

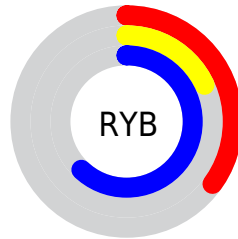
The YIQ color **70.8530, -10.9660, 44.5700** is a dark color, and the websafe version is hex **663399**. A complement of this color would be **133.1470, 10.9660, -44.5700**, and the grayscale version is **70.0000, 0.0000, 0.0000**.

A 20% lighter version of the original color is **122.7440, -9.0410, 48.2310**, and **20.7550, -16.7420, 39.1140** is the 20% darker color. If you saturate the color by 10%, you get **58.4710, -12.5260, 50.8180**, and if you desaturate by 10%, it is **83.2350, -9.4060, 38.3220**.

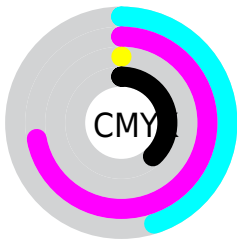
# Distribution



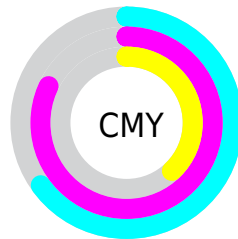
- Red (35%)
- Green (18%)
- Blue (62%)



- Red (35%)
- Yellow (18%)
- Blue (62%)



- Cyan (45%)
- Magenta (72%)
- Yellow (0%)
- Black (38%)



- Cyan (65%)
- Magenta (82%)
- Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 70.8530, -10.9660, 44.5700 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 70.8530, -10.9660, 44.5700 by changing the saturation by 10% instead.



70.8530, -10.9660,  
44.5700

70.8530, -10.9660,  
44.5700

255.0000, -0.0000,  
-0.0000

44.7280, -12.1120,  
43.3120

122.7440, -9.0410,  
48.2310

20.7550, -16.7420,  
39.1140

149.5700, -8.4910,  
49.2770

9.3480, -26.3220,  
25.5020

174.8710, -2.2090,  
45.5590

7.6720, -18.8470,  
16.6810

199.9780, 7.3750,  
37.0630

5.1640, -11.7850,  
9.8390

223.3020, 14.8500,  
28.2420

1.1400, -3.2100,  
3.1100

240.3250, 6.8750,

0.0000, 0.0000,

13.0750

0.0000

■ 70.8530, -10.9660,  
44.5700

■ 70.8530, -10.9660,  
44.5700

■ 58.4710, -12.5260,  
50.8180

■ 83.2350, -9.4060,  
38.3220

■ 46.0890, -14.0860,  
57.0660

■ 95.6170, -7.8460,  
32.0740

■ 36.0660, -15.2790,  
62.1690

■ 107.9990, -6.2860,  
25.8260

■ 120.3810, -4.7260,  
19.5780

■ 132.1760, -2.8910,  
13.8530

■ 144.2590, -1.9270,  
7.3930

■ 156.6410, -0.3670,  
1.1450

■ 169.0230, 1.1930,  
-5.1030

■ 181.4050, 2.7530,  
-11.3510

# Harmonies

## Analogous

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



64.8870, -79.3680, 17.6880



70.8530, -10.9660, 44.5700



56.4220, 51.0640, 65.7840

# Triad

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



70.8530, -10.9660, 44.5700



67.2790, 56.0740, -3.0140



64.6230, -53.8230, -21.2710

# Complementary

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



70.8530, -10.9660, 44.5700



133.1470, 10.9660, -44.5700

# 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.



56.7230, -34.3340, -38.5740



70.8530, -10.9660, 44.5700



66.1510, 23.4790, -23.5370

# Square

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



70.8530, -10.9660, 44.5700



45.1490, 89.9960, 32.0120



50.4820, -23.6500, -44.9780



70.7790, -71.1570, -4.4770



# Rectangle

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



70.8530, -10.9660, 44.5700



56.8030, 71.5600, 57.7680



50.4820, -23.6500, -44.9780



61.8700, -47.4490, -26.6570

# Sweetspot

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



70.8530, -10.9660, 44.5700



171.3270, -4.6340, 17.9100



100.2600, -56.3940, -2.2020



83.4810, -2.4320, 11.0400



232.0000, -0.0000, 0.0000



105.0000, 0.0000, 0.0000



# Same Dimension

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



70.8530, -10.9660, 44.5700



69.3250, -17.2060, 69.5620



87.5970, 22.4100, 56.4420



72.8090, -0.7800, 3.1240



32.4480, -13.7190, 55.9210



3.5040, -1.2390, 5.9370



# Inverse Universe

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



87.1800, 45.1530, 46.2490



94.7620, 70.7780, 71.9460



116.4030, -22.4100, -56.4420



73.9620, 3.1630, 3.2510



52.9030, 56.6590, 57.9950



5.6250, 5.7300, 6.2900



# Previews

## White Background



This preview shows how the YIQ color 70.8530, -10.9660, 44.5700 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



This preview shows how the YIQ color 70.8530, -10.9660, 44.5700 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

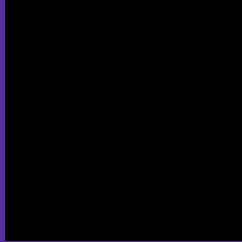
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 70.8530, -10.9660, 44.5700

## Background



This preview shows how black text looks on a background with the YIQ color 70.8530, -10.9660, 44.5700.



This preview shows how white text looks on a background with the YIQ color 70.8530, -10.9660,



# 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

70.8530, -10.9660, 44.5700

### Protanopia

57.8480, -66.4370, 9.1070

### Deuteranopia

57.9160, -61.1170, 0.7950



## Tritanopia

72.0750, -4.5850, 0.4950

# Trichromacy



## Original Color

70.8530, -10.9660, 44.5700

## Protanomaly

62.5890, -46.1740, 21.8420

## Deuteranomaly

62.3950, -42.8720, 17.0640

## Tritanomaly

71.6040, -6.9720, 16.2280

# Monochromacy



## Original Color

70.8530, -10.9660, 44.5700

## Achromatopsia

71.0000, -0.0000, -0.0000

## Achromatomaly

71.1590, -4.2210, 15.9310

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 70.8530, -10.9660, 44.5700 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, 45, 159)` looks like.

```
.text, #text, p{  
    color:rgb(88, 45, 159)  
}
```

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, 45, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(88, 45, 159) }
```

## Border

The CSS property to change the border of an element to YIQ 70.8530, -10.9660, 44.5700 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, 45, 159) }
```



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

```
.border{ border-color:rgb(88, 45, 159) }
```

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

Here you see how a box with a 4 pixel `rgb(88, 45, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(88, 45, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(88, 45, 159);  
box-shadow:4px 4px 4px 4px rgb(88, 45,  
159) }
```

# Background

The CSS property to change the background color of an element to YIQ 70.8530, -10.9660, 44.5700 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(88, 45, 159) }
```

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

```
.background{ background-color: rgb(88, 45,  
159) }
```

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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