

# Converting Colors

YIQ(88.5890, -10.6430, 33.2050)

Have a look what the booklet for  
YIQ(88.5890, -10.6430, 33.2050)  
contains.

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# Color

**YIQ(88.5890, -10.6430,  
33.2050)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	63469D
RGB	99, 70, 157
RGB Percent	39%, 27%, 62%
CMY	0.6116, 0.7255, 0.3844
CMYK	0.37, 0.55, 0.00, 0.38
HSL	260°, 38%, 45%
HSV	260°, 55%, 62%
XYZ	13.4218, 9.4666, 33.0056
YIQ	88.5890, -10.6430, 33.2050

# Conversions

## Conversions Part 2

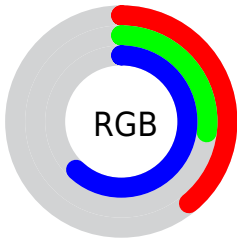
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	99, 70, 157
Decimal	6506141
CIE <sub>Lab</sub>	36.87, 32.49, -43.20
CIE <sub>LCh</sub>	37, 54.056, 306.951
Yxy	9.4666, 0.2401, 0.1694
Android (android.graphics.Color)	4284696221 (0xFF63469D)
YUV	88.5890, 33.7266, 9.1304
Hunter-Lab	30.7679, 24.0233, -42.0647

# Details

The YIQ color **88.5890, -10.6430, 33.2050** is a dark color, and the websafe version is hex **663399**. A complement of this color would be **138.4110, 10.6430, -33.2050**, and the grayscale version is **88.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **139.7680, -9.5890, 36.1310**, and **39.8120, -12.8890, 29.8550** is the 20% darker color. If you saturate the color by 10%, you get **76.2070, -12.2030, 39.4530**, and if you desaturate by 10%, it is **100.9710, -9.0830, 26.9570**.

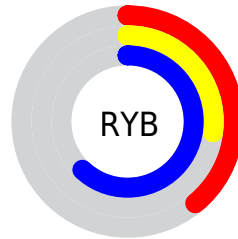
# Distribution



Red (39%)

Green (27%)

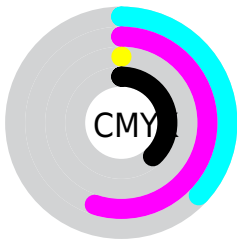
Blue (62%)



Red (39%)

Yellow (27%)

Blue (62%)

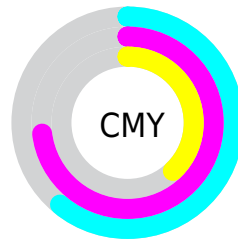


Cyan (37%)

Magenta (55%)

Yellow (0%)

Black (38%)



Cyan (61%)

Magenta (73%)

Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 88.5890, -10.6430, 33.2050 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 88.5890, -10.6430, 33.2050 by changing the saturation by 10% instead.



■ 88.5890, -10.6430,  
33.2050

■ 88.5890, -10.6430,  
33.2050

■ 255.0000, -0.0000,  
-0.0000

■ 64.3500, -11.4680,  
31.6360

■ 139.7680, -9.5890,  
36.1310

■ 39.8120, -12.8890,  
29.8550

■ 166.7080, -9.3600,  
37.4880

■ 15.9640, -16.3730,  
26.9150

■ 192.5250, -4.5910,  
33.6570

■ 6.4980, -18.2970,  
17.7270

■ 217.6320, 4.9930,  
25.1610

■ 5.0500, -11.4640,  
9.5280

■ 239.1510, 7.4250,  
14.1210

■ 0.9120, -2.5680,  
2.4880

■ 0.0000, 0.0000,

0.0000

■ 88.5890, -10.6430,  
33.2050

■ 88.5890, -10.6430,  
33.2050

■ 76.2070, -12.2030,  
39.4530

■ 100.9710, -9.0830,  
26.9570

■ 64.1130, -14.6340,  
44.9660

■ 113.0650, -6.6520,  
21.4440

■ 51.7310, -16.1940,  
51.2140

■ 125.4470, -5.0920,  
15.1960

■ 39.0500, -18.3500,  
57.2500

■ 138.1280, -2.9360,  
9.1600

■ 33.4460, -19.4050,  
59.8510

■ 149.9230, -1.1010,  
3.4350

■ 162.6040, 1.0550,  
-2.6010

■ 174.9860, 2.6150,  
-8.8490

■ 187.6670, 4.7710,  
-14.8850

■ 199.4620, 6.6060,  
-20.6100

# Harmonies

## Analogous

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



72.0790, -80.3290, 7.5670



88.5890, -10.6430, 33.2050



85.1510, 34.9290, 44.3130

# Triad

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



88.5890, -10.6430, 33.2050



81.7320, 58.8720, -9.6720



73.1660, -59.9660, -25.5820

# Complementary

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



88.5890, -10.6430, 33.2050



138.4110, 10.6430, -33.2050

# 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.



66.7480, -44.6500, -38.8420



88.5890, -10.6430, 33.2050



80.3600, 33.0160, -25.6720

# Square

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



88.5890, -10.6430, 33.2050



80.2120, 67.3490, 18.4290



72.1770, 2.2540, -40.8660



77.3670, -73.1730, -11.9970



# Rectangle

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



88.5890, -10.6430, 33.2050



79.5740, 55.6070, 44.0150



72.1770, 2.2540, -40.8660



71.4560, -55.1510, -30.2470

# Sweetspot

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



88.5890, -10.6430, 33.2050



176.5780, -4.0830, 13.4290



113.9640, -43.8770, -3.2770



86.0740, -2.8440, 7.4920



230.0000, -0.0000, 0.0000



102.0000, -0.0000, -0.0000



# Same Dimension

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



88.5890, -10.6430, 33.2050



97.8450, -16.5150, 51.5250



101.4460, 14.9850, 42.3210



72.8090, -0.7800, 3.1240



30.6540, -17.2950, 54.6490



3.2050, -1.8350, 5.7250



# Inverse Universe

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



102.6250, 33.2340, 36.4820



119.6250, 51.5700, 56.6100



125.2550, -15.5810, -42.5330



73.9620, 3.1630, 3.2510



53.5870, 54.7330, 59.8610

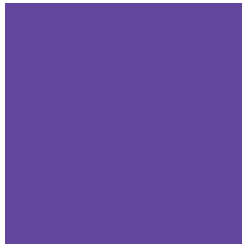


5.6250, 5.7300, 6.2900



# Previews

## White Background



This preview shows how the YIQ color 88.5890, -10.6430, 33.2050 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 88.5890, -10.6430, 33.2050 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

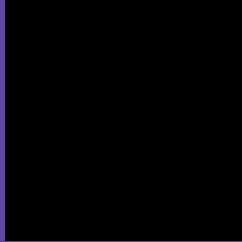
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 88.5890, -10.6430, 33.2050**

## **Background**



This preview shows how black text looks on a background with the YIQ color 88.5890, -10.6430, 33.2050.



This preview shows how white text looks on a background with the YIQ color 88.5890, -10.6430,



# 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

88.5890, -10.6430, 33.2050

### Protanopia

78.1850, -59.8360, 16.1320

### Deuteranopia

77.7690, -56.0290, 7.7070



## Tritanopia

87.0860, -3.1180, 1.4420

# Trichromacy



## Original Color

88.5890, -10.6430, 33.2050

## Protanomaly

82.1550, -41.9560, 22.4920

## Deuteranomaly

81.2490, -39.5250, 16.9790

## Tritanomaly

87.6810, -5.8710, 12.7930

# Monochromacy



## Original Color

88.5890, -10.6430, 33.2050

## Achromatopsia

89.0000, -0.0000, -0.0000

## Achromatomaly

88.9370, -3.7160, 12.2840

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 88.5890, -10.6430, 33.2050 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(99, 70, 157)` looks like.

```
.text, #text, p{  
    color:rgb(99, 70, 157)  
}
```

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(99, 70, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 70, 157) }
```

## Border

The CSS property to change the border of an element to YIQ 88.5890, -10.6430, 33.2050 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(99, 70, 157) }
```



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

```
.border{ border-color:rgb(99, 70, 157) }
```

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

Here you see how a box with a 4 pixel rgb(99, 70, 157) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 70, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 70, 157);  
box-shadow:4px 4px 4px 4px rgb(99, 70,  
157) }
```

# Background

The CSS property to change the background color of an element to YIQ 88.5890, -10.6430, 33.2050 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 70, 157) }
```

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

```
.background{ background-color: rgb(99, 70,  
157) }
```

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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