

# Converting Colors

YIQ(83.5600, 33.0000, 62.7600)

Have a look what the booklet for  
YIQ(83.5600, 33.0000, 62.7600)  
contains.

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# Color

**YIQ(83.5600, 33.0000,  
62.7600)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9A229A
RGB	154, 34, 154
RGB Percent	60%, 13%, 60%
CMY	0.3957, 0.8668, 0.3960
CMYK	0.00, 0.78, 0.00, 0.40
HSL	300°, 64%, 37%
HSV	300°, 78%, 60%
XYZ	19.7481, 10.3537, 31.5337
YIQ	83.5600, 33.0000, 62.7600

# Conversions

## Conversions Part 2

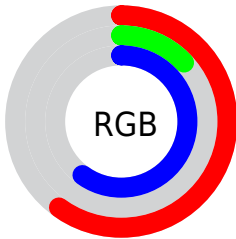
<b>Format</b>	<b>Color</b>
<b>RYB</b>	154, 34, 154
Decimal	10101402
CIELab	38.47, 61.36, -38.41
CIELCh	38, 72.388, 327.954
Yxy	10.3537, 0.3204, 0.1680
Android (android.graphics.Color)	4288291482 (0xFF9A229A)
YUV	83.5600, 34.7269, 61.7759
Hunter-Lab	32.1771, 53.2410, -35.5805

# Details

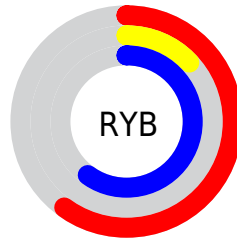
The YIQ color **83.5600, 33.0000, 62.7600** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **104.4400, -33.0000, -62.7600**, and the grayscale version is **83.0000, -0.0000, 0.0000**.

A 20% lighter version of the original color is **142.3920, 33.4130, 60.7810**, and **41.2290, 26.2620, 52.7100** is the 20% darker color. If you saturate the color by 10%, you get **74.7550, 37.1250, 70.6050**, and if you desaturate by 10%, it is **92.3650, 28.8750, 54.9150**.

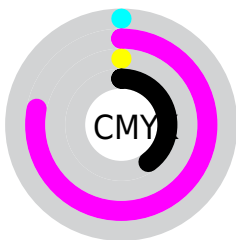
# Distribution



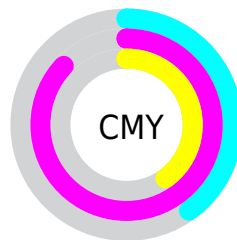
- Red (60%)
- Green (13%)
- Blue (60%)



- Red (60%)
- Yellow (13%)
- Blue (60%)



- Cyan (0%)
- Magenta (78%)
- Yellow (0%)
- Black (40%)



- Cyan (40%)
- Magenta (87%)
- Yellow (40%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 83.5600, 33.0000, 62.7600 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 83.5600, 33.0000, 62.7600 by changing the saturation by 10% instead.



83.5600, 33.0000,  
62.7600

83.5600, 33.0000,  
62.7600

255.0000, -0.0000,  
-0.0000

52.2660, 34.0080,  
66.5200

142.3920, 33.4130,  
60.7810

41.2290, 26.2620,  
52.7100

170.1040, 34.2840,  
61.5160

30.4200, 17.8740,  
39.5220

192.7780, 29.1500,  
55.4380

20.5080, 11.2740,  
26.9700

209.2140, 21.4500,  
40.7940

6.0400, -5.5040,  
11.6480

226.2370, 13.4750,  
25.6270

0.3420, -0.9630,  
0.9330

243.2600, 5.5000,

0.0000, 0.0000,

10.4600

0.0000

■ 83.5600, 33.0000,  
62.7600

■ 83.5600, 33.0000,  
62.7600

■ 74.7550, 37.1250,  
70.6050

■ 92.3650, 28.8750,  
54.9150

■ 65.3630, 41.5250,  
78.9730

■ 101.7570, 24.4750,  
46.5470

■ 63.6020, 42.3500,  
80.5420

■ 110.5620, 20.3500,  
38.7020

■ 119.9540, 15.9500,  
30.3340

■ 128.7590, 11.8250,  
22.4890

■ 137.5640, 7.7000,  
14.6440

■ 146.9560, 3.3000,  
6.2760

■ 155.7610, -0.8250,  
-1.5690

■ 165.1530, -5.2250,  
-9.9370

# Harmonies

## Analogous

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



86.6790, -45.9470, 34.2530



83.5600, 33.0000, 62.7600



66.6720, 79.7190, 69.5990

# Triad

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



83.5600, 33.0000, 62.7600



85.4540, 44.6150, -21.1210



83.4480, -77.8950, -14.5270

# Complementary

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



83.5600, 33.0000, 62.7600



104.4400, -33.0000, -62.7600

# 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.



76.6080, -58.6350, -33.1870



83.5600, 33.0000, 62.7600



77.2050, 5.0510, -41.9970

# Square

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



83.5600, 33.0000, 62.7600



81.8750, 77.9430, 2.6390



66.5080, -35.7070, -52.2430



86.9310, -91.8360, 1.3480



# Rectangle

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



83.5600, 33.0000, 62.7600



62.9380, 93.1090, 58.2050



66.5080, -35.7070, -52.2430



81.1680, -71.4750, -20.7470

# Sweetspot

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



83.5600, 33.0000, 62.7600



173.9980, 12.6500, 24.0580



47.6800, -38.5200, 37.3200



84.9770, 7.9750, 15.1670



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.



83.5600, 33.0000, 62.7600



90.0570, 51.9750, 98.8470



76.7200, 52.2600, 44.1000



72.1900, 2.5210, 3.8730



57.8200, 38.5000, 73.2200



5.3690, 3.5750, 6.7990



# Inverse Universe

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



83.5600, 33.0000, 62.7600



90.0570, 51.9750, 98.8470



111.2800, -52.2600, -44.1000



72.1900, 2.5210, 3.8730



57.8200, 38.5000, 73.2200



5.3690, 3.5750, 6.7990



# Previews

## White Background



This preview shows how the YIQ color 83.5600, 33.0000, 62.7600 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 × Fail



# Black Background



This preview shows how the YIQ color 83.5600, 33.0000, 62.7600 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

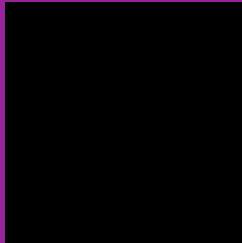
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 83.5600, 33.0000, 62.7600**

## **Background**



This preview shows how black text looks on a background with the YIQ color 83.5600, 33.0000, 62.7600.



This preview shows how white text looks on a background with the YIQ color 83.5600, 33.0000,



# 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

83.5600, 33.0000, 62.7600

### Protanopia

73.0880, -84.5480, 12.4440

### Deuteranopia

88.8870, -35.8100, 10.2220



## Tritanopia

90.7780, 45.2040, 17.7800

# Trichromacy



## Original Color

83.5600, 33.0000, 62.7600



## Protanomaly

76.7240, -41.8200, 31.0440



## Deuteranomaly

87.0680, -10.7340, 29.3460



## Tritanomaly

88.0510, 40.6620, 34.0220

# Monochromacy



## Original Color

83.5600, 33.0000, 62.7600



## Achromatopsia

84.0000, -0.0000, -0.0000



## Achromatomaly

83.7590, 11.8250, 22.4890

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 83.5600, 33.0000, 62.7600 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(154, 34, 154)` looks like.

```
.text, #text, p{  
    color:rgb(154, 34, 154)  
}
```

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(154, 34, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(154, 34, 154) }
```

## Border

The CSS property to change the border of an element to YIQ 83.5600, 33.0000, 62.7600 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(154, 34, 154) }
```



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

```
.border{ border-color:rgb(154, 34, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(154, 34, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(154, 34, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(154, 34, 154);  
box-shadow:4px 4px 4px 4px rgb(154, 34,  
154) }
```

# Background

The CSS property to change the background color of an element to YIQ 83.5600, 33.0000, 62.7600 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(154, 34, 154) }
```

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

```
.background{ background-color: rgb(154, 34,  
154) }
```

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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