

# Converting Colors

YIQ(158.9680, -13.0280,  
37.8840)

Have a look what the booklet for  
YIQ(158.9680, -13.0280, 37.8840)  
contains.

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# Color

**YIQ(158.9680, -13.0280,  
37.8840)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AA8AEE
RGB	170, 138, 238
RGB Percent	67%, 54%, 93%
CMY	0.3332, 0.4589, 0.0668
CMYK	0.29, 0.42, 0.00, 0.07
HSL	259°, 75%, 74%
HSV	259°, 42%, 93%
XYZ	41.0996, 32.8943, 85.0466
YIQ	158.9680, -13.0280, 37.8840

# Conversions

## Conversions Part 2

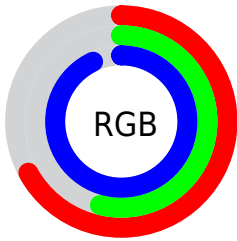
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	170, 138, 238
Decimal	11176686
CIE Lab	64.08, 32.94, -46.13
CIE LCh	64, 56.685, 305.535
Yxy	32.8943, 0.2584, 0.2068
Android (android.graphics.Color)	4289366766 (0xFFAA8AEE)
YUV	158.9680, 38.9628, 9.6751
Hunter-Lab	57.3535, 27.5445, -47.7706

# Details

The YIQ color  $158.9680, -13.0280, 37.8840$  is a light color, and the websafe version is hex  $CC99FF$ . A complement of this color would be  $217.0320, 13.0280, -37.8840$ , and the grayscale version is  $159.0000, -0.0000, 0.0000$ .

A 20% lighter version of the original color is  $209.6470, 0.6370, 27.0130$ , and  $106.2020, -13.8070, 35.4810$  is the 20% darker color. If you saturate the color by 10%, you get  $140.0960, -15.9640, 47.0440$ , and if you desaturate by 10%, it is  $177.8400, -10.0920, 28.7240$ .

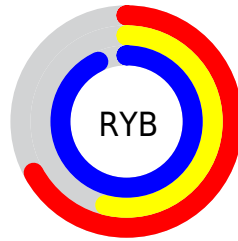
# Distribution



Red (67%)

Green (54%)

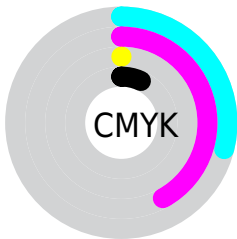
Blue (93%)



Red (67%)

Yellow (54%)

Blue (93%)

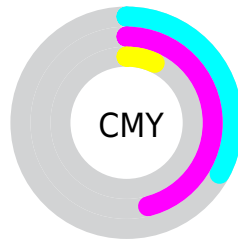


Cyan (29%)

Magenta (42%)

Yellow (0%)

Black (7%)



Cyan (33%)

Magenta (46%)

Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 158.9680, -13.0280, 37.8840 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 158.9680, -13.0280, 37.8840 by changing the saturation by 10% instead.



■ 158.9680,  
-13.0280, 37.8840

■ 158.9680,  
-13.0280, 37.8840

■ 255.0000, -0.0000,  
-0.0000

■ 132.0280,  
-13.2570, 36.5270

■ 209.6470, 0.6370,  
27.0130

■ 106.0880,  
-13.4860, 35.1700

■ 234.4550, 9.6250,  
18.3050

■ 81.4360, -14.5860,  
33.0780

■ 251.4780, 1.6500,  
3.1380

■ 56.8980, -16.0070,  
31.2970

■ 32.6480, -18.2990,  
28.7810

■ 8.8920, -25.0380,  
24.2580

■ 6.1560, -17.3340,

16.7940

■ 4.8220, -10.8220,  
8.9060

■ 0.3420, -0.9630,  
0.9330

■ 158.9680,  
-13.0280, 37.8840

■ 158.9680,  
-13.0280, 37.8840

■ 140.0960,  
-15.9640, 47.0440

■ 177.8400,  
-10.0920, 28.7240

■ 121.2240,  
-18.9000, 56.2040

■ 196.7120, -7.1560,  
19.5640

■ 102.9390,  
-22.1110, 64.8410

■ 215.2960, -3.3490,  
11.1390

■ 83.7680, -25.6430,  
73.7890

■ 234.1680, -0.4130,  
1.9790

■ 64.8960, -28.5790,  
82.9490

■ 251.8660, 3.0730,  
-6.1350

■ 49.8560, -31.1020,  
90.1300

■ 253.0620, 5.4570,  
-5.2870

# Harmonies

## Analogous

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



142.1480, -84.7770, 11.0870



158.9680, -13.0280, 37.8840



158.8140, 37.4960, 47.3520

# Triad

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



158.9680, -13.0280, 37.8840



151.9570, 71.4800, -6.8880



124.2420, -101.8230, -43.4470

# Complementary

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



158.9680, -13.0280, 37.8840



217.0320, 13.0280, -37.8840

# 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.



126.7190, -64.0420, -50.8420



158.9680, -13.0280, 37.8840



148.8420, 46.0380, -30.3940

# Square

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



158.9680, -13.0280, 37.8840



152.9100, 80.0030, 20.3790



143.1340, 3.8130, -41.5870



129.3550, -117.5980, -27.3740



# Rectangle

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



158.9680, -13.0280, 37.8840



156.0370, 61.6130, 45.3010



143.1340, 3.8130, -41.5870



121.7170, -96.0910, -48.2110

# Sweetspot

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



158.9680, -13.0280, 37.8840



228.7520, -4.6330, 12.3830



189.3160, -50.8000, -4.4640



111.4870, -2.5690, 8.0150



0.0000, 0.0000, 0.0000



128.0000, -0.0000, -0.0000



# Same Dimension

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



158.9680, -13.0280, 37.8840



154.4380, -16.9270, 47.9770



173.9180, 16.7720, 48.4840



110.5640, -1.4680, 4.5800



38.6170, -23.9000, 69.7320



11.7660, -7.2480, 21.2320



# Inverse Universe

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



175.6520, 37.7720, 42.3480



175.7770, 48.0860, 53.6700



202.0820, -16.7720, -48.4840



112.5000, 4.5840, 5.0320



69.2660, 69.5390, 77.8830

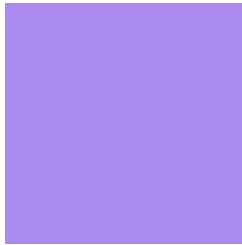


21.0760, 21.1780, 23.6900



# Previews

## White Background



This preview shows how the YIQ color 158.9680, -13.0280, 37.8840 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

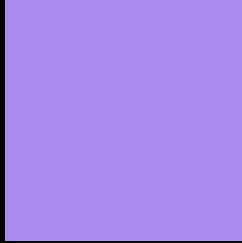
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the YIQ color 158.9680, -13.0280, 37.8840 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

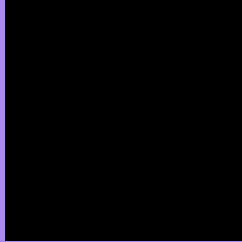
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# YIQ 158.9680, -13.0280, 37.8840

## Background



This preview shows how black text looks on a background with the YIQ color 158.9680, -13.0280, 37.8840.



This preview shows how white text looks on a background with the YIQ color 158.9680, -13.0280,



# 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

158.9680, -13.0280, 37.8840

### Protanopia

152.7070, -52.3180, 23.0580

### Deuteranopia

152.9430, -47.4110, 16.7250



## Tritanopia

155.9660, -2.6600, 4.1560

# Trichromacy



## Original Color

158.9680, -13.0280, 37.8840

## Protanomaly

154.9970, -38.3350, 28.4570

## Deuteranomaly

155.2160, -34.7580, 24.2020

## Tritanomaly

156.9030, -6.3760, 16.4400

# Monochromacy



## Original Color

158.9680, -13.0280, 37.8840

## Achromatopsia

159.0000, -0.0000, 0.0000

## Achromatomaly

158.8060, -4.7250, 14.0510

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 158.9680, -13.0280, 37.8840 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(170, 138, 238)` looks like.

```
.text, #text, p{  
    color:rgb(170, 138, 238)  
}
```

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(170, 138, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 138, 238) }
```

## Border

The CSS property to change the border of an element to YIQ 158.9680, -13.0280, 37.8840 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(170, 138, 238) }
```



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

```
.border{ border-color:rgb(170, 138, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 138, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(170, 138, 238); -webkit-box-shadow:4px 4px 4px 4px rgb(170, 138, 238); box-shadow:4px 4px 4px 4px rgb(170, 138, 238) }
```

# Background

The CSS property to change the background color of an element to YIQ 158.9680, -13.0280, 37.8840 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 138, 238) }
```

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

```
.background{ background-color: rgb(170,  
138, 238) }
```

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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