

# Converting Colors

YIQ(52.8440, 2.4210, 49.7570)

Have a look what the booklet for  
YIQ(52.8440, 2.4210, 49.7570)  
contains.

<b>YIQ(52.8440, 2.4210, 49.7570)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**YIQ(52.8440, 2.4210,  
49.7570)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	561487
RGB	86, 20, 135
RGB Percent	34%, 8%, 53%
CMY	0.6625, 0.9217, 0.4707
CMYK	0.36, 0.85, 0.00, 0.47
HSL	274°, 74%, 30%
HSV	274°, 85%, 53%
XYZ	8.4645, 4.2292, 23.2844
YIQ	52.8440, 2.4210, 49.7570

# Conversions

## Conversions Part 2

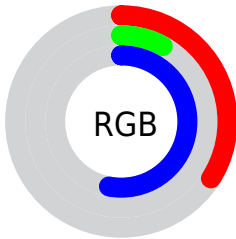
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	86, 20, 135
Decimal	5641351
CIE <sub>Lab</sub>	24.42, 49.08, -49.92
CIE <sub>LCh</sub>	24, 70.005, 314.515
Yxy	4.2292, 0.2353, 0.1176
Android (android.graphics.Color)	4283831431 (0xFF561487)
YUV	52.8440, 40.5029, 29.0778
Hunter-Lab	20.5651, 37.4811, -52.7341

# Details

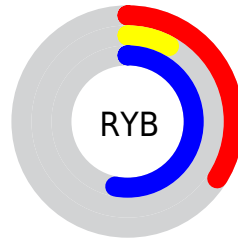
The YIQ color **52.8440, 2.4210, 49.7570** is a dark color, and the websafe version is hex **663399**. A complement of this color would be **102.1560, -2.4210, -49.7570**, and the grayscale version is **52.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **106.5560, 3.2920, 50.4920**, and **18.8450, -8.4880, 32.6960** is the 20% darker color. If you saturate the color by 10%, you get **42.8320, 2.6950, 55.8070**, and if you desaturate by 10%, it is **62.2690, 2.4220, 44.2300**.

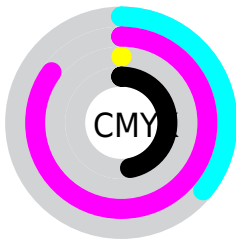
# Distribution



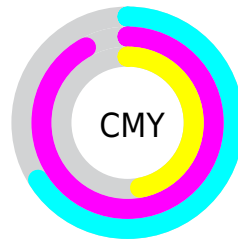
- Red (34%)
- Green (8%)
- Blue (53%)



- Red (34%)
- Yellow (8%)
- Blue (53%)



- Cyan (36%)
- Magenta (85%)
- Yellow (0%)
- Black (47%)



- Cyan (66%)
- Magenta (92%)
- Yellow (47%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 52.8440, 2.4210, 49.7570 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 52.8440, 2.4210, 49.7570 by changing the saturation by 10% instead.



■ 52.8440, 2.4210,  
49.7570

■ 52.8440, 2.4210,  
49.7570

■ 255.0000, -0.0000,  
-0.0000

■ 30.0670, 0.1750,  
46.4070

■ 106.5560, 3.2920,  
50.4920

■ 19.1440, -7.8920,  
32.9080

■ 133.3820, 3.8420,  
51.5380

■ 6.8400, -19.2600,  
18.6600

■ 160.3220, 4.0710,  
52.8950

■ 5.3920, -12.4270,  
10.4610

■ 185.8680, 11.0410,  
47.7210


■ 2.1830, -4.7690,  
3.8310

■ 210.9750, 20.6250,  
39.2250

■ 0.0000, 0.0000,  
0.0000


■ 227.4110, 12.9250,

24.5810


 244.4340, 4.9500,  
9.4140


 52.8440, 2.4210,  
49.7570


 52.8440, 2.4210,  
49.7570


 42.8320, 2.6950,  
55.8070

 62.2690, 2.4220,  
44.2300

 38.7120, 3.1530,  
58.5210

 72.2810, 2.1480,  
38.1800

 81.4070, 1.5530,  
32.4410

 91.4190, 1.2790,  
26.3910

 100.8440, 1.2800,  
20.8640

■ 110.8560, 1.0060,  
14.8140

■ 119.9820, 0.4110,  
9.0750

■ 129.9940, 0.1370,  
3.0250

■ 139.4190, 0.1380,  
-2.5020

# Harmonies

## Analogous

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



52.6280, -68.2730, 20.3590



52.8440, 2.4210, 49.7570



49.7990, 51.0200, 55.5640

# Triad

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



52.8440, 2.4210, 49.7570



54.5210, 43.6490, -3.6070



54.6610, -47.8180, -14.4580

# Complementary

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



52.8440, 2.4210, 49.7570



102.1560, -2.4210, -49.7570

# 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.



47.1030, -29.2920, -30.8280



52.8440, 2.4210, 49.7570



51.9200, 11.0080, -23.2960

# Square

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



52.8440, 2.4210, 49.7570



37.9730, 75.6920, 26.9240



42.2640, -19.8000, -37.6560



60.3610, -63.8680, 1.0920



# Rectangle

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



52.8440, 2.4210, 49.7570



48.7990, 68.2150, 46.7990



42.2640, -19.8000, -37.6560



52.6090, -42.0400, -20.0560

# Sweetspot

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



52.8440, 2.4210, 49.7570



143.0180, 0.7300, 19.8180



62.4600, -50.6650, 9.6150



69.5630, 0.2730, 11.5770



217.0000, -0.0000, 0.0000



89.0000, -0.0000, -0.0000



# Same Dimension

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



52.8440, 2.4210, 49.7570



50.2630, 3.7000, 76.1480



66.5830, 34.1930, 57.6570



61.5810, -0.1380, 2.5020



37.2450, 2.9700, 56.3300



0.6410, -0.3670, 1.1450



# Inverse Universe

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



59.9710, 52.8110, 39.6190



61.1740, 80.8210, 60.6370



88.4170, -34.1930, -57.6570



62.0220, 2.9340, 1.8940



45.1400, 59.8250, 44.6650

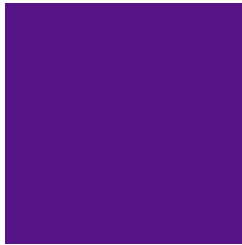


1.0110, 1.4670, 0.9470



# Previews

## White Background



This preview shows how the YIQ color 52.8440, 2.4210, 49.7570 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

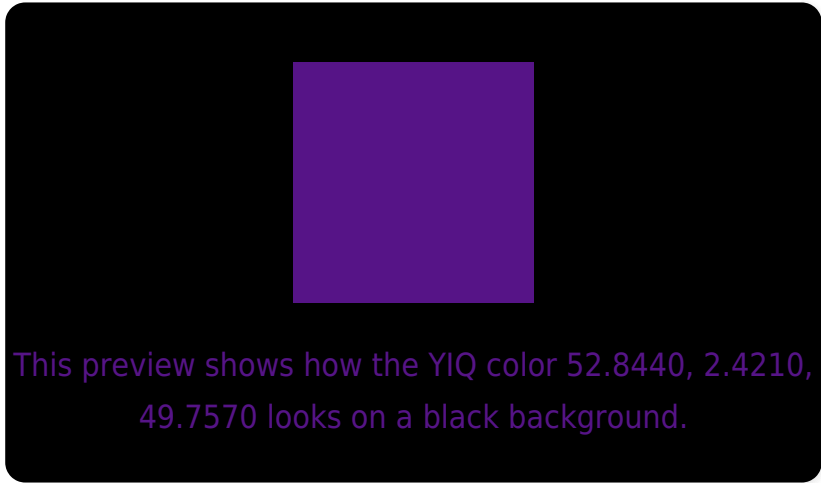
Any Text WCAG AA ✓ Pass

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

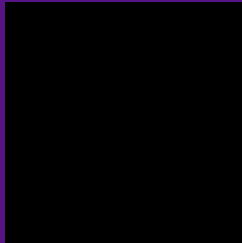
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 52.8440, 2.4210, 49.7570**

## **Background**



This preview shows how black text looks on a background with the YIQ color 52.8440, 2.4210, 49.7570.



This preview shows how white text looks on a background with the YIQ color 52.8440, 2.4210,



# 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

52.8440, 2.4210, 49.7570

### Protanopia

47.8400, -54.7910, 7.2970

### Deuteranopia

47.7770, -50.4800, 0.7520



## Tritanopia

60.2400, 8.2520, 4.6360

# Trichromacy



## Original Color

52.8440, 2.4210, 49.7570

## Protanomaly

49.4610, -34.0700, 22.7460

## Deuteranomaly

49.4950, -31.4100, 18.5900

## Tritanomaly

57.2960, 5.8190, 21.2030

# Monochromacy



## Original Color

52.8440, 2.4210, 49.7570

## Achromatopsia

53.0000, -0.0000, -0.0000

## Achromatomaly

52.9640, 0.8220, 18.1500

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 52.8440, 2.4210, 49.7570 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(86, 20, 135)` looks like.

```
.text, #text, p{  
    color:rgb(86, 20, 135)  
}
```

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(86, 20, 135) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(86, 20, 135) }
```

## Border

The CSS property to change the border of an element to YIQ 52.8440, 2.4210, 49.7570 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(86, 20, 135) }
```



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

```
.border{ border-color:rgb(86, 20, 135) }
```

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

Here you see how a box with a 4 pixel `rgb(86, 20, 135)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(86, 20, 135); -webkit-box-  
shadow:4px 4px 4px 4px rgb(86, 20, 135);  
box-shadow:4px 4px 4px 4px rgb(86, 20,  
135) }
```

# Background

The CSS property to change the background color of an element to YIQ 52.8440, 2.4210, 49.7570 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(86, 20, 135) }
```

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

```
.background{ background-color: rgb(86, 20,  
135) }
```

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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