

# Converting Colors

YIQ(87.7620, 53.5830, 80.7110)

Have a look what the booklet for  
YIQ(87.7620, 53.5830, 80.7110)  
contains.

<b>YIQ(87.7620, 53.5830, 80.7110)</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> .....	30

# Color

**YIQ(87.7620, 53.5830,  
80.7110)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BD15A6
RGB	189, 21, 166
RGB Percent	74%, 8%, 65%
CMY	0.2583, 0.9179, 0.3489
CMYK	0.00, 0.89, 0.12, 0.26
HSL	308°, 80%, 41%
HSV	308°, 89%, 74%
XYZ	28.1694, 14.1227, 37.3300
YIQ	87.7620, 53.5830, 80.7110

# Conversions

## Conversions Part 2

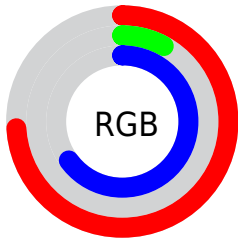
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	189, 21, 166
Decimal	12391846
CIE <sub>Lab</sub>	44.41, 72.98, -35.83
CIE <sub>LCh</sub>	44, 81.301, 333.854
Yxy	14.1227, 0.3538, 0.1774
Android (android.graphics.Color)	4290581926 (0xFFBD15A6)
YUV	87.7620, 38.5713, 88.7857
Hunter-Lab	37.5801, 68.0353, -32.5892

# Details

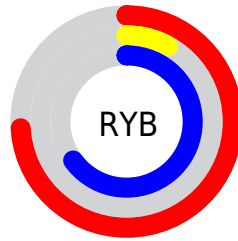
The YIQ color **87.7620, 53.5830, 80.7110** is a dark color, and the websafe version is hex **CC0099**. A complement of this color would be **122.2380, -53.5830, -80.7110**, and the grayscale version is **87.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **154.3500, 51.5670, 73.1910**, and **52.0510, 41.8030, 62.9150** is the 20% darker color. If you saturate the color by 10%, you get **76.2670, 59.7710, 89.7150**, and if you desaturate by 10%, it is **99.2570, 47.3950, 71.7070**.

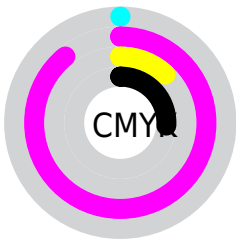
# Distribution



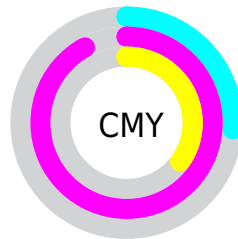
- Red (74%)
- Green (8%)
- Blue (65%)



- Red (74%)
- Yellow (8%)
- Blue (65%)



- Cyan (0%)
- Magenta (89%)
- Yellow (12%)
- Black (26%)



- Cyan (26%)
- Magenta (92%)
- Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 87.7620, 53.5830, 80.7110 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 87.7620, 53.5830, 80.7110 by changing the saturation by 10% instead.



■ 87.7620, 53.5830,  
80.7110

■ 87.7620, 53.5830,  
80.7110

■ 255.0000, -0.0000,  
-0.0000

■ 63.6860, 50.7410,  
77.1490

■ 154.3500, 51.5670,  
73.1910

■ 52.0510, 41.8030,  
62.9150

■ 176.9460, 37.9050,  
67.4810

■ 40.9430, 32.8190,  
49.5150

■ 194.5390, 28.3250,  
53.8690

■ 29.8350, 23.8350,  
36.1150

■ 211.5620, 20.3500,  
38.7020

■ 19.1400, 15.1260,  
23.2380

■ 229.1720, 12.1000,  
23.0120

■ 3.6610, -3.1190,  
6.9690

■ 246.7820, 3.8500,

■ 0.0000, 0.0000,

7.3220

0.0000

■ 87.7620, 53.5830,  
80.7110

■ 87.7620, 53.5830,  
80.7110

■ 76.2670, 59.7710,  
89.7150

■ 99.2570, 47.3950,  
71.7070

■ 75.0930, 60.3210,  
90.7610

■ 110.6380, 41.5280,  
62.3920

■ 122.1330, 35.3400,  
53.3880

■ 133.5140, 29.4730,  
44.0730

■ 145.0090, 23.2850,  
35.0690

■ 155.9170, 17.3720,  
26.5880

■ 167.2980, 11.5050,  
17.2730

■ 178.7930, 5.3170,  
8.2690

■ 190.1740, -0.5500,  
-1.0460

# Harmonies

## Analogous

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



104.2070, -29.3980, 48.2180



87.7620, 53.5830, 80.7110



76.5820, 97.8280, 77.3160

# Triad

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



87.7620, 53.5830, 80.7110



98.4010, 42.9660, -29.7860



98.0040, -94.0800, -13.0560

# Complementary

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



87.7620, 53.5830, 80.7110



122.2380, -53.5830, -80.7110

# 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.



90.2520, -72.2520, -34.2040



87.7620, 53.5830, 80.7110



84.1830, -7.0510, -53.9550

# Square

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



87.7620, 53.5830, 80.7110



97.2250, 82.5290, -3.3830



80.1690, -47.9940, -55.3380



100.5410, -108.1130, 4.4870



# Rectangle

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



87.7620, 53.5830, 80.7110



70.6690, 110.1640, 62.9960



80.1690, -47.9940, -55.3380



95.4960, -87.0180, -19.8980

# Sweetspot

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



87.7620, 53.5830, 80.7110



205.2320, 21.0390, 31.7190



46.7300, -40.8160, 56.9120



98.5370, 12.3300, 18.8420



250.0000, 0.0000, 0.0000



122.0000, 0.0000, -0.0000



# Same Dimension

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



87.7620, 53.5830, 80.7110



97.3090, 78.2890, 117.5610



78.3000, 80.2260, 54.8980



88.6030, 2.7960, 4.3960



62.7460, 50.5120, 75.7920



12.2330, 10.1300, 14.6580



# Inverse Universe

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



87.7620, 53.5830, 80.7110



97.3090, 78.2890, 117.5610



131.7000, -80.2260, -54.8980



88.6030, 2.7960, 4.3960



62.7460, 50.5120, 75.7920



12.2330, 10.1300, 14.6580



# Previews

## White Background



This preview shows how the YIQ color 87.7620, 53.5830, 80.7110 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

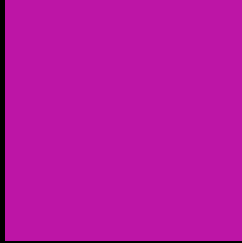
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the YIQ color 87.7620, 53.5830, 80.7110 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

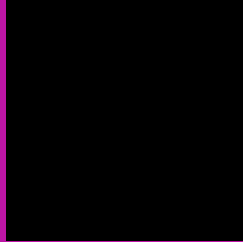
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 87.7620, 53.5830, 80.7110

## Background



This preview shows how black text looks on a background with the YIQ color 87.7620, 53.5830, 80.7110.



This preview shows how white text looks on a background with the YIQ color 87.7620, 53.5830,



# 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

87.7620, 53.5830, 80.7110

### Deuteranopia

105.4210, -28.5660, 11.0980

### Tritanopia

101.2430, 66.0640, 25.2000

# Trichromacy



## Original Color

87.7620, 53.5830, 80.7110

## Deuteranomaly

99.0420, 1.3230, 36.6110

## Tritanomaly

96.1510, 61.2920, 45.6120

# Monochromacy



## Original Color

87.7620, 53.5830, 80.7110

## Achromatopsia

88.0000, -0.0000, -0.0000

## Achromatomaly

88.1670, 19.6640, 29.1040

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 87.7620, 53.5830, 80.7110 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(189, 21, 166)` looks like.

```
.text, #text, p{  
    color:rgb(189, 21, 166)  
}
```

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(189, 21, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 21, 166) }
```

## Border

The CSS property to change the border of an element to YIQ 87.7620, 53.5830, 80.7110 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(189, 21, 166) }
```

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

```
.border{ border-color:rgb(189, 21, 166) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 21, 166)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 21, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 21, 166);  
box-shadow:4px 4px 4px 4px rgb(189, 21,  
166) }
```



# Background

The CSS property to change the background color of an element to YIQ 87.7620, 53.5830, 80.7110 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 21, 166) }
```

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

```
.background{ background-color: rgb(189, 21,  
166) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor