

# Converting Colors

YIQ(49.9080, 22.7320, 50.6040)

Have a look what the booklet for  
YIQ(49.9080, 22.7320, 50.6040)  
contains.

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# Color

**YIQ(49.9080, 22.7320,  
50.6040)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	670B6F
RGB	103, 11, 111
RGB Percent	40%, 4%, 44%
CMY	0.5958, 0.9570, 0.5647
CMYK	0.07, 0.90, 0.00, 0.56
HSL	295°, 82%, 24%
HSV	295°, 90%, 44%
XYZ	8.5904, 4.2740, 15.4121
YIQ	49.9080, 22.7320, 50.6040

# Conversions

## Conversions Part 2

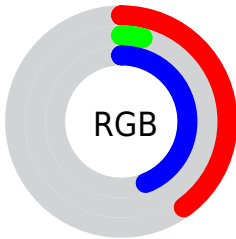
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	103, 11, 111
Decimal	6753135
CIE <sub>Lab</sub>	24.56, 49.57, -34.30
CIE <sub>LCh</sub>	25, 60.282, 325.315
Yxy	4.2740, 0.3038, 0.1512
Android (android.graphics.Color)	4284943215 (0xFF670B6F)
YUV	49.9080, 30.1184, 46.5617
Hunter-Lab	20.6737, 37.9916, -29.7285

# Details

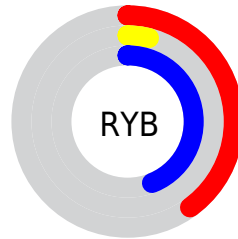
The YIQ color **49.9080, 22.7320, 50.6040** is a dark color, and the websafe version is hex **660066**. A complement of this color would be **72.0920, -22.7320, -50.6040**, and the grayscale version is **50.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **106.6150, 21.9990, 47.3670**, and **22.6160, 11.0900, 30.3060** is the 20% darker color. If you saturate the color by 10%, you get **43.1520, 25.1610, 56.1450**, and if you desaturate by 10%, it is **56.6640, 20.3030, 45.0630**.

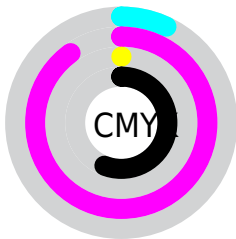
# Distribution



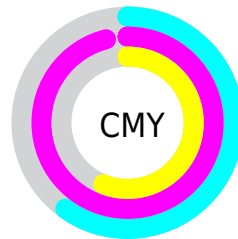
- Red (40%)
- Green (4%)
- Blue (44%)



- Red (40%)
- Yellow (4%)
- Blue (44%)



- Cyan (7%)
- Magenta (90%)
- Yellow (0%)
- Black (56%)



- Cyan (60%)
- Magenta (96%)
- Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 49.9080, 22.7320, 50.6040 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 49.9080, 22.7320, 50.6040 by changing the saturation by 10% instead.



■ 49.9080, 22.7320,  
50.6040

■ 49.9080, 22.7320,  
50.6040

■ 255.0000, -0.0000,  
-0.0000

■ 32.8270, 18.2860,  
43.0700

■ 106.6150, 21.9990,  
47.3670

■ 22.6160, 11.0900,  
30.3060

■ 133.4410, 22.5490,  
48.4130

■ 12.6330, 3.2520,  
18.1640

■ 161.1530, 23.4200,  
49.1480

■ 2.5250, -5.7320,  
4.7640

■ 188.8650, 24.2910,  
49.8830


■ 0.0000, 0.0000,  
0.0000


■ 209.2140, 21.4500,  
40.7940


■ 226.2370, 13.4750,


25.6270


 243.2600, 5.5000,  
10.4600


 49.9080, 22.7320,  
50.6040


 49.9080, 22.7320,  
50.6040

 43.1520, 25.1610,  
56.1450

 56.6640, 20.3030,  
45.0630

 63.4200, 17.8740,  
39.5220

 70.1760, 15.4450,  
33.9810

 76.9320, 13.0160,  
28.4400

 83.3890, 9.9910,  
22.6870

■ 90.7320, 7.2870,  
16.6230

■ 97.4880, 4.8580,  
11.0820

■ 104.2440, 2.4290,  
5.5410

■ 111.0000, -0.0000,  
0.0000

# Harmonies

## Analogous

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



47.9300, -54.5640, 19.7080



49.9080, 22.7320, 50.6040



46.9210, 56.2480, 48.9200

# Triad

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



49.9080, 22.7320, 50.6040



55.3190, 32.2340, -11.4940



55.5560, -51.7160, -9.8920

# Complementary

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



49.9080, 22.7320, 50.6040



72.0920, -22.7320, -50.6040

# 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.



49.7250, -36.6750, -23.6750



49.9080, 22.7320, 50.6040



49.4950, 1.8390, -27.8330

# Square

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



49.9080, 22.7320, 50.6040



50.7990, 57.9060, 7.8420



42.8510, -20.0750, -38.1790



58.7140, -63.3640, 2.9720



# Rectangle

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



49.9080, 22.7320, 50.6040



44.0990, 67.0700, 40.0140



42.8510, -20.0750, -38.1790



53.8460, -46.9010, -14.5570

# Sweetspot

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



49.9080, 22.7320, 50.6040



121.2100, 8.9370, 19.7610



27.0960, -34.3000, 26.9160



59.3140, 5.4080, 12.1280



201.0000, -0.0000, 0.0000



74.0000, -0.0000, 0.0000



# Same Dimension

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



49.9080, 22.7320, 50.6040



56.5960, 33.3190, 73.5030



47.5120, 40.9820, 39.2380



52.4780, 1.6500, 3.1380



46.5700, 27.0400, 60.6400



96.3300, 56.6010, 125.1530



# Inverse Universe

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



41.8120, 57.0320, 23.6880



44.7230, 82.5680, 34.4720



74.4880, -40.9820, -39.2380



51.9080, 3.2550, 1.5830



37.0200, 68.3100, 28.5500

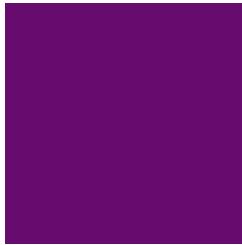


76.1330, 140.7920, 58.5840



# Previews

## White Background



This preview shows how the YIQ color 49.9080, 22.7320, 50.6040 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

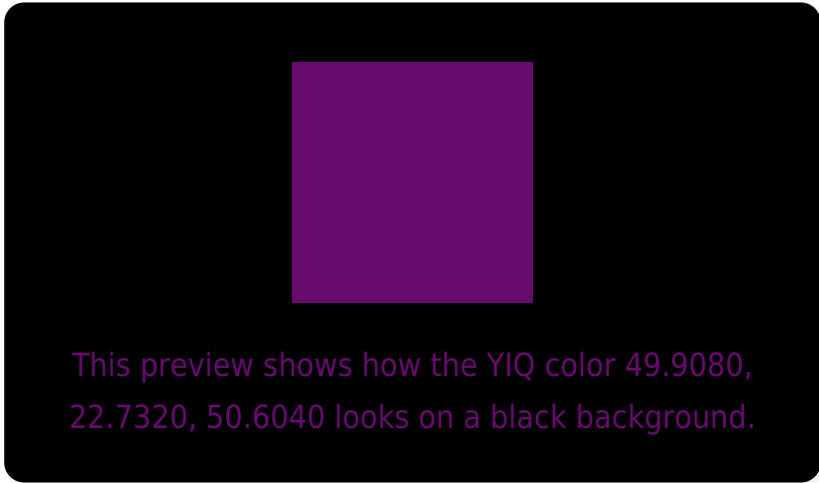
Any Text WCAG AA ✓ Pass

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

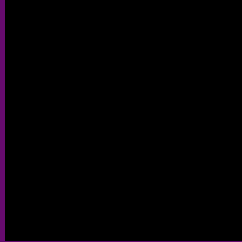
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 49.9080, 22.7320, 50.6040**

## **Background**



This preview shows how black text looks on a background with the YIQ color 49.9080, 22.7320, 50.6040.



This preview shows how white text looks on a background with the YIQ color 49.9080, 22.7320,



# 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

49.9080, 22.7320, 50.6040

### Protanopia

48.7690, -56.0290, 7.7070

### Deuteranopia

55.8500, -34.3880, 6.4760



## Tritanopia

59.5910, 29.4330, 11.7450

# Trichromacy



## Original Color

49.9080, 22.7320, 50.6040

## Protanomaly

49.2830, -27.6970, 22.8870

## Deuteranomaly

53.8840, -13.3920, 22.4480

## Tritanomaly

56.0660, 27.1380, 25.8100

# Monochromacy



## Original Color

49.9080, 22.7320, 50.6040

## Achromatopsia

50.0000, -0.0000, -0.0000

## Achromatomaly

49.9710, 8.1120, 18.1920

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 49.9080, 22.7320, 50.6040 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(103, 11, 111)` looks like.

```
.text, #text, p{  
    color:rgb(103, 11, 111)  
}
```

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(103, 11, 111) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 11, 111) }
```

## Border

The CSS property to change the border of an element to YIQ 49.9080, 22.7320, 50.6040 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(103, 11, 111) }
```



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

```
.border{ border-color:rgb(103, 11, 111) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 11, 111)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 11, 111); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 11, 111);  
box-shadow:4px 4px 4px 4px rgb(103, 11,  
111) }
```

# Background

The CSS property to change the background color of an element to YIQ 49.9080, 22.7320, 50.6040 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 11, 111) }
```

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

```
.background{ background-color: rgb(103, 11,  
111) }
```

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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