

# Converting Colors

YIQ(72.2320, 49.6840, 90.8040)

Have a look what the booklet for  
YIQ(72.2320, 49.6840, 90.8040)  
contains.

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# Color

**YIQ(72.2320, 49.6840,  
90.8040)**

# Conversions

## Conversions Part 1

| <b>Format</b> | <b>Color</b>              |
|---------------|---------------------------|
| Hex           | B000AC                    |
| RGB           | 176, 0, 172               |
| RGB Percent   | 69%, 0%, 67%              |
| CMY           | 0.3093, 0.9999, 0.3254    |
| CMYK          | 0.00, 1.00, 0.02, 0.31    |
| HSL           | 301°, 100%, 35%           |
| HSV           | 301°, 100%, 69%           |
| XYZ           | 25.3828, 12.2249, 40.0598 |
| YIQ           | 72.2320, 49.6840, 90.8040 |

# Conversions

## Conversions Part 2

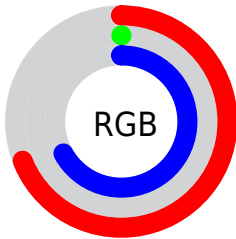
| <b>Format</b>                       | <b>Color</b>                  |
|-------------------------------------|-------------------------------|
| <b>R<sub>YB</sub></b>               | 176, 0, 172                   |
| Decimal                             | 11534508                      |
| CIE Lab                             | 41.57, 73.83, -44.05          |
| CIE LCh                             | 42, 85.975, 329.179           |
| Yxy                                 | 12.2249, 0.3268,<br>0.1574    |
| Android<br>(android.graphics.Color) | 4289724588<br>(0xFFB000AC)    |
| YUV                                 | 72.2320, 49.1856,<br>91.0045  |
| Hunter-Lab                          | 34.9642, 68.3976,<br>-43.4559 |

# Details

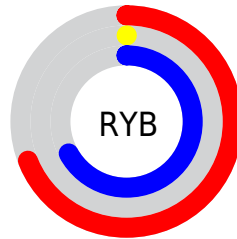
The YIQ color **72.2320, 49.6840, 90.8040** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **103.7680, -49.6840, -90.8040**, and the grayscale version is **72.0000, -0.0000, 0.0000**.

A 20% lighter version of the original color is **146.1520, 43.4970, 76.2730**, and **49.1470, 32.7250, 62.2370** is the 20% darker color. If you saturate the color by 10%, you get **72.2320, 49.6840, 90.8040**, and if you desaturate by 10%, it is **82.7980, 44.7340, 81.3900**.

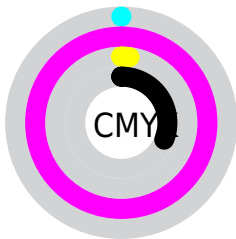
# Distribution



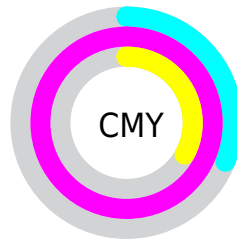
- Red (69%)
- Green (0%)
- Blue (67%)



- Red (69%)
- Yellow (0%)
- Blue (67%)



- Cyan (0%)
- Magenta (100%)
- Yellow (2%)
- Black (31%)




- Cyan (31%)
- Magenta (100%)
- Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the YIQ color 72.2320, 49.6840, 90.8040 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 72.2320, 49.6840, 90.8040 by changing the saturation by 10% instead.





 72.2320, 49.6840,  
90.8040


 72.2320, 49.6840,  
90.8040


255.0000, -0.0000,  
-0.0000


 60.4830, 41.0670,  
76.2590


 146.4510, 44.0930,  
76.4850


 49.1470, 32.7250,  
62.2370


 172.8200, 38.5000,  
73.2200


 37.9250, 24.0620,  
48.5260


 189.8430, 30.5250,  
58.0530

 27.0020, 15.9950,  
35.0270

 206.8660, 22.5500,  
42.8860

 15.7090, 6.0940,  
21.7260

 224.4760, 14.3000,  
27.1960

 3.3230, -7.9790,  
6.9410

 242.0860, 6.0500,

 0.0000, 0.0000,

11.5060

0.0000

■ 72.2320, 49.6840,  
90.8040

■ 82.7980, 44.7340,  
81.3900

■ 92.8910, 39.7380,  
72.8100

■ 103.4570, 34.7880,  
63.3960

■ 113.5500, 29.7920,  
54.8160

■ 124.1160, 24.8420,  
45.4020

■ 134.6820, 19.8920,  
35.9880

■ 144.7750, 14.8960,  
27.4080

■ 155.3410, 9.9460,  
17.9940

■ 166.0210, 4.6750,  
8.8910

# Harmonies

## Analogous

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



92.2300, -54.5680, 41.8160



72.2320, 49.6840, 90.8040



75.4290, 93.8850, 77.1890

# Triad

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



72.2320, 49.6840, 90.8040



92.2430, 46.5870, -23.8210



92.8860, -87.9360, -14.2720

# Complementary

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



72.2320, 49.6840, 90.8040



103.7680, -49.6840, -90.8040

# 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.



83.5040, -64.2740, -35.6180



72.2320, 49.6840, 90.8040



80.3840, -3.0630, -49.1350

# Square

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



72.2320, 49.6840, 90.8040



87.5450, 87.8000, 5.7200



71.5970, -34.8800, -61.7280



96.8080, -104.4910, 4.9250



# Rectangle

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



72.2320, 49.6840, 90.8040



70.2990, 108.3300, 63.1940



71.5970, -34.8800, -61.7280



89.6770, -80.2780, -20.9020

# Sweetspot

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



72.2320, 49.6840, 90.8040



189.2690, 19.6170, 35.4650



20.9610, -54.7080, 55.3720



90.2320, 11.8710, 21.6550



242.0000, -0.0000, 0.0000



115.0000, -0.0000, 0.0000



# Same Dimension

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



72.2320, 49.6840, 90.8040



94.3060, 65.1760, 118.4240



62.3140, 77.6110, 63.7470



83.7170, 2.4750, 4.7070



62.7330, 43.3590, 78.7750



10.6240, 7.4710, 13.2870



# Inverse Universe

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



72.2320, 49.6840, 90.8040



94.3060, 65.1760, 118.4240



113.6860, -77.6110, -63.7470



83.7170, 2.4750, 4.7070



62.7330, 43.3590, 78.7750



10.6240, 7.4710, 13.2870



# Previews

## White Background



This preview shows how the YIQ color 72.2320, 49.6840, 90.8040 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

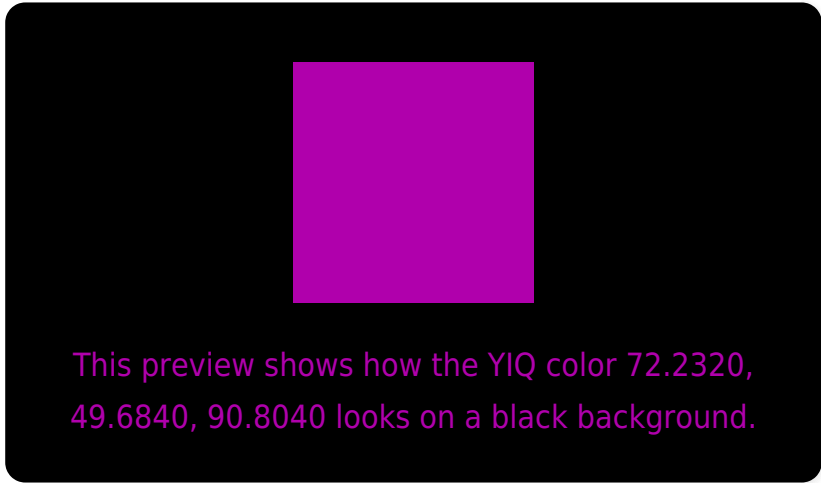
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

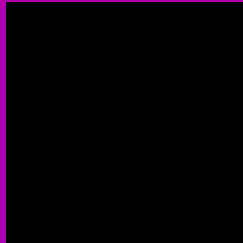
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 72.2320, 49.6840, 90.8040**

## **Background**



This preview shows how black text looks on a background with the YIQ color 72.2320, 49.6840, 90.8040.



This preview shows how white text looks on a background with the YIQ color 72.2320, 49.6840,



# 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

72.2320, 49.6840, 90.8040

### Protanopia

80.3090, -92.4800, 13.0240

### Deuteranopia

96.8910, -41.6330, 11.1270



## Tritanopia

97.7580, 57.1240, 22.0200

# Trichromacy



## Original Color

72.2320, 49.6840, 90.8040



## Protanomaly

77.5320, -40.8590, 41.1650



## Deuteranomaly

87.8870, -8.3060, 40.4140



## Tritanomaly

88.3830, 54.8270, 47.1390

# Monochromacy



## Original Color

72.2320, 49.6840, 90.8040



## Achromatopsia

72.0000, -0.0000, 0.0000



## Achromatomaly

72.2040, 18.2420, 32.8500

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 72.2320, 49.6840, 90.8040 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(176, 0, 172)` looks like.

```
.text, #text, p{  
    color:rgb(176, 0, 172)  
}
```

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(176, 0, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 0, 172) }
```

## Border

The CSS property to change the border of an element to YIQ 72.2320, 49.6840, 90.8040 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(176, 0, 172) }
```



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

```
.border{ border-color:rgb(176, 0, 172) }
```

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

Here you see how a box with a 4 pixel rgb(176, 0, 172) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 0, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 0, 172);  
box-shadow:4px 4px 4px 4px rgb(176, 0,  
172) }
```

# Background

The CSS property to change the background color of an element to YIQ 72.2320, 49.6840, 90.8040 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 0, 172) }
```

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

```
.background{ background-color: rgb(176, 0,  
172) }
```

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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