

# Converting Colors

YIQ(67.1200, 20.1600, 75.2000)

Have a look what the booklet for  
YIQ(67.1200, 20.1600, 75.2000)  
contains.

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# Color

**YIQ(67.1200, 20.1600,  
75.2000)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	850DAD
RGB	133, 13, 173
RGB Percent	52%, 5%, 68%
CMY	0.4780, 0.9492, 0.3216
CMYK	0.23, 0.93, 0.00, 0.32
HSL	285°, 86%, 36%
HSV	285°, 93%, 68%
XYZ	17.3734, 8.2978, 40.2154
YIQ	67.1200, 20.1600, 75.2000

# Conversions

## Conversions Part 2

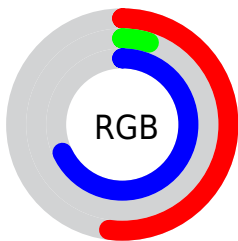
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	133, 13, 173
Decimal	8719789
CIE <sub>Lab</sub>	34.60, 65.68, -56.26
CIE <sub>LCh</sub>	35, 86.480, 319.414
Yxy	8.2978, 0.2637, 0.1259
Android (android.graphics.Color)	4286909869 (0xFF850DAD)
YUV	67.1200, 52.1988, 57.7768
Hunter-Lab	28.8059, 57.2464, -62.6096

# Details

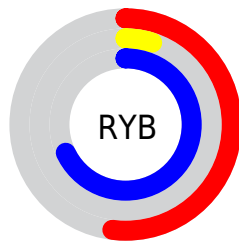
The YIQ color **67.1200, 20.1600, 75.2000** is a dark color, and the websafe version is hex **660099**. A complement of this color would be **118.8800, -20.1600, -75.2000**, and the grayscale version is **67.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **130.7620, 18.0520, 69.3480**, and **36.5890, 7.6930, 53.3330** is the 20% darker color. If you saturate the color by 10%, you get **58.5920, 21.9470, 81.3630**, and if you desaturate by 10%, it is **78.2950, 17.8690, 67.1570**.

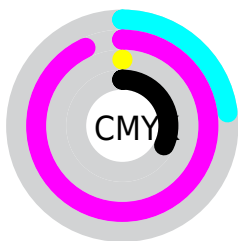
# Distribution



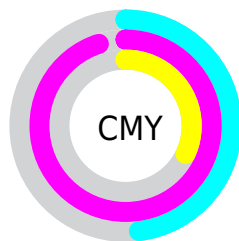
- Red (52%)
- Green (5%)
- Blue (68%)



- Red (52%)
- Yellow (5%)
- Blue (68%)



- Cyan (23%)
- Magenta (93%)
- Yellow (0%)
- Black (32%)



- Cyan (48%)
- Magenta (95%)
- Yellow (32%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 67.1200, 20.1600, 75.2000 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 67.1200, 20.1600, 75.2000 by changing the saturation by 10% instead.



67.1200, 20.1600,  
75.2000

67.1200, 20.1600,  
75.2000

255.0000, -0.0000,  
-0.0000

48.0390, 15.7140,  
67.6660

130.7620, 18.0520,  
69.3480

36.5890, 7.6930,  
53.3330

158.8330, 19.2900,  
68.9380

25.3670, -0.9700,  
39.6220

184.2390, 29.4700,  
60.6540

13.2480, -11.4210,  
25.2750

202.1700, 24.7500,  
47.0700

7.0050, -15.5910,  
12.7370

218.6060, 17.0500,  
32.4260

3.3230, -7.9790,  
6.9410

235.6290, 9.0750,

0.0000, 0.0000,

17.2590

0.0000

253.2390, 0.8250,  
1.5690

67.1200, 20.1600,  
75.2000

67.1200, 20.1600,  
75.2000

58.5920, 21.9470,  
81.3630

78.2950, 17.8690,  
67.1570

90.3560, 15.8990,  
58.8030

101.5310, 13.6080,  
50.7600

112.7060, 11.3170,  
42.7170

124.1800, 9.6220,  
34.8860

■ 135.9420, 7.0560,  
26.3200

■ 147.1170, 4.7650,  
18.2770

■ 158.5910, 3.0700,  
10.4460

■ 170.3530, 0.5040,  
1.8800

# Harmonies

## Analogous

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



69.1220, -89.9150, 27.1170



67.1200, 20.1600, 75.2000



67.7410, 75.2710, 73.1190

# Triad

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



67.1200, 20.1600, 75.2000



76.9700, 52.2700, -11.1700



77.1730, -69.8710, -16.7750

# Complementary

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



67.1200, 20.1600, 75.2000



118.8800, -20.1600, -75.2000

# 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.



67.7910, -46.2090, -38.1210



67.1200, 20.1600, 75.2000



70.1610, 8.3510, -35.7210

# Square

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



67.1200, 20.1600, 75.2000



56.6780, 95.6360, 28.9160



59.2870, -27.7750, -52.8230



83.5400, -89.1770, 2.7190



# Rectangle

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



67.1200, 20.1600, 75.2000



65.0030, 94.4840, 60.8200



59.2870, -27.7750, -52.8230



73.8500, -61.8920, -23.7160

# Sweetspot

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



67.1200, 20.1600, 75.2000



183.1210, 8.1100, 29.2460



54.7200, -62.3600, 28.8400



87.0030, 5.0860, 17.9660



240.0000, -0.0000, -0.0000



112.0000, -0.0000, 0.0000



# Same Dimension

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



67.1200, 20.1600, 75.2000



75.7680, 28.2240, 105.2800



74.5200, 56.8400, 71.2400



81.1190, 1.2830, 4.2830



50.8870, 19.1980, 70.6060



7.7050, 2.7490, 10.7570



# Inverse Universe

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



65.4000, 82.5200, 46.3600



73.3600, 115.5280, 64.9040



111.4800, -56.8400, -71.2400



80.9190, 4.7220, 2.5300



49.1820, 77.2020, 43.6180



7.5610, 11.7820, 6.7420



# Previews

## White Background



This preview shows how the YIQ color 67.1200, 20.1600, 75.2000 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

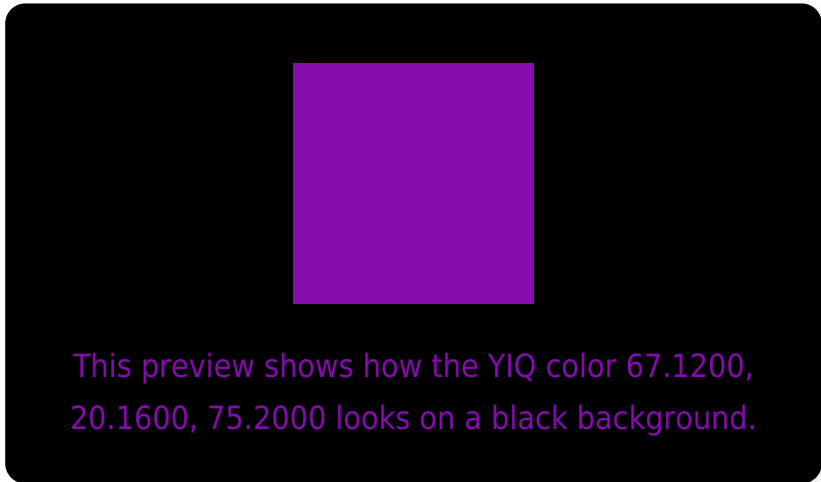
Any Text WCAG AA ✓ Pass

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

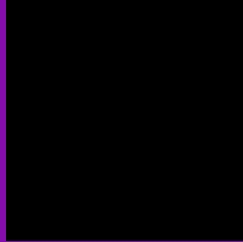
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 67.1200, 20.1600, 75.2000

## Background



This preview shows how black text looks on a background with the YIQ color 67.1200, 20.1600, 75.2000.



This preview shows how white text looks on a background with the YIQ color 67.1200, 20.1600,



# 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

67.1200, 20.1600, 75.2000

### Protanopia

66.2260, -76.2490, 10.7190

### Deuteranopia

66.7670, -70.8830, 1.5730



## Tritanopia

83.5200, 28.1950, 12.1550

# Trichromacy



## Original Color

67.1200, 20.1600, 75.2000



## Protanomaly

66.6040, -41.3620, 33.7580



## Deuteranomaly

66.8830, -38.0140, 28.1460



## Tritanomaly

77.3790, 25.1190, 34.8710

# Monochromacy



## Original Color

67.1200, 20.1600, 75.2000



## Achromatopsia

67.0000, -0.0000, -0.0000



## Achromatomaly

66.8820, 7.2850, 27.6770

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 67.1200, 20.1600, 75.2000 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(133, 13, 173)` looks like.

```
.text, #text, p{  
    color:rgb(133, 13, 173)  
}
```

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(133, 13, 173) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 13, 173) }
```

## Border

The CSS property to change the border of an element to YIQ 67.1200, 20.1600, 75.2000 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(133, 13, 173) }
```



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

```
.border{ border-color:rgb(133, 13, 173) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 13, 173)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 13, 173); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 13, 173);  
box-shadow:4px 4px 4px 4px rgb(133, 13,  
173) }
```

# Background

The CSS property to change the background color of an element to YIQ 67.1200, 20.1600, 75.2000 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 13, 173) }
```

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

```
.background{ background-color: rgb(133, 13,  
173) }
```

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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