

# Converting Colors

YIQ(23.7100, -3.6740, 33.5580)

Have a look what the booklet for  
YIQ(23.7100, -3.6740, 33.5580)  
contains.

<b>YIQ(23.7100, -3.6740, 33.5580)</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(23.7100, -3.6740,  
33.5580)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	290355
RGB	41, 3, 85
RGB Percent	16%, 1%, 33%
CMY	0.8391, 0.9883, 0.6667
CMYK	0.52, 0.96, 0.00, 0.67
HSL	268°, 93%, 17%
HSV	268°, 96%, 33%
XYZ	2.5872, 1.1925, 8.6840
YIQ	23.7100, -3.6740, 33.5580

# Conversions

## Conversions Part 2

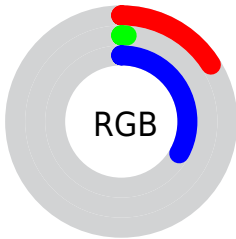
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	41, 3, 85
Decimal	2687829
CIE Lab	10.50, 36.17, -40.40
CIE LCh	11, 54.226, 311.844
Yxy	1.1925, 0.2076, 0.0957
Android (android.graphics.Color)	4280877909 (0xFF290355)
YUV	23.7100, 30.2160, 15.1633
Hunter-Lab	10.9202, 23.1795, -39.5048

# Details

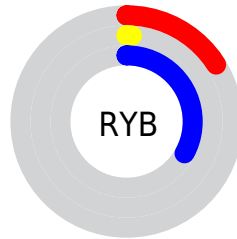
The YIQ color **23.7100, -3.6740, 33.5580** is a dark color, and the websafe version is hex **330066**. A complement of this color would be **64.2900, 3.6740, -33.5580**, and the grayscale version is **23.0000, 0.0000, -0.0000**.

A 20% lighter version of the original color is **73.2480, -2.2530, 35.3390**, and **6.0930, -13.0230, 10.2490** is the 20% darker color. If you saturate the color by 10%, you get **21.3510, -4.0410, 34.7030**, and if you desaturate by 10%, it is **29.9010, -2.8940, 30.4340**.

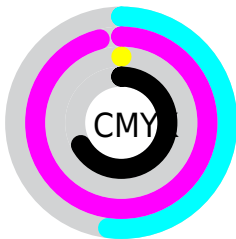
# Distribution



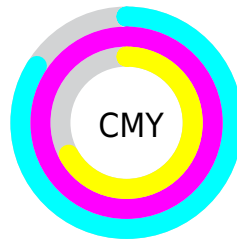
- Red (16%)
- Green (1%)
- Blue (33%)



- Red (16%)
- Yellow (1%)
- Blue (33%)



- Cyan (52%)
- Magenta (96%)
- Yellow (0%)
- Black (67%)



- Cyan (84%)
- Magenta (99%)
- Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 23.7100, -3.6740, 33.5580 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 23.7100, -3.6740, 33.5580 by changing the saturation by 10% instead.



■ 23.7100, -3.6740,  
33.5580

■ 23.7100, -3.6740,  
33.5580

■ 243.2600, 5.5000,  
10.4600

■ 13.2330, -7.0650,  
23.4230

■ 73.2480, -2.2530,  
35.3390

■ 6.0930, -13.0230,  
10.2490

■ 98.0740, -1.7030,  
36.3850

■ 2.4110, -5.4110,  
4.4530

■ 124.0140, -1.4740,  
37.7420


■ 0.0000, 0.0000,  
0.0000


■ 149.9540, -1.2450,  
39.0990


■ 177.3670, -0.9700,  
39.6220


■ 202.9130, 6.0000,


34.4480


 226.2370, 13.4750,  
25.6270


 23.7100, -3.6740,  
33.5580


 23.7100, -3.6740,  
33.5580


 21.3510, -4.0410,  
34.7030

 29.9010, -2.8940,  
30.4340

 36.3800, -2.9850,  
26.5750

 42.5710, -2.2050,  
23.4510

 49.0500, -2.2960,  
19.5920

 55.2410, -1.5160,  
16.4680

■ 61.7200, -1.6070,  
12.6090

■ 67.9110, -0.8270,  
9.4850

■ 74.3900, -0.9180,  
5.6260

■ 80.5810, -0.1380,  
2.5020

# Harmonies

## Analogous

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



29.3520, -41.3130, 16.3430



23.7100, -3.6740, 33.5580



29.5490, 30.3920, 32.9200

# Triad

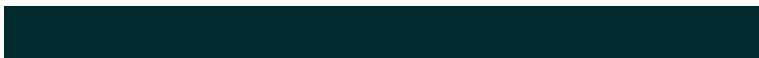
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



23.7100, -3.6740, 33.5580



26.1250, 27.5090, 2.5570



29.5560, -25.3530, -8.5930

# Complementary

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



23.7100, -3.6740, 33.5580



64.2900, 3.6740, -33.5580

# 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.



24.0670, -11.2750, -21.4430



23.7100, -3.6740, 33.5580



25.6610, 4.9080, -11.8600

# Square

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



23.7100, -3.6740, 33.5580



22.7240, 45.2960, 16.1120



22.8930, -10.7250, -20.3970



34.1330, -36.8630, 1.7690



# Rectangle

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



23.7100, -3.6740, 33.5580



28.9060, 42.2680, 26.9400



22.8930, -10.7250, -20.3970



28.0740, -21.1800, -12.6360

# Sweetspot

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



23.7100, -3.6740, 33.5580



86.1330, -1.3320, 13.1320



38.7630, -38.6970, 1.9670



41.2700, -0.4600, 8.3400



184.0000, 0.0000, -0.0000



56.0000, -0.0000, 0.0000



# Same Dimension

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



23.7100, -3.6740, 33.5580



27.7890, -4.9140, 45.0220



35.6700, 20.1660, 42.0380



40.0540, -0.0920, 1.6680



27.1480, -4.5470, 43.8770



59.3810, -10.4710, 96.1930



# Inverse Universe

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



32.5340, 34.7480, 31.0680



39.6160, 46.6210, 41.6690



52.3300, -20.1660, -42.0380



40.4240, 1.7420, 1.4700



38.4910, 45.4750, 40.4110

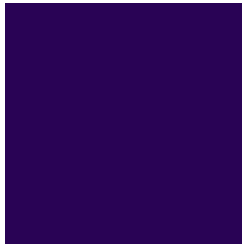


84.6290, 99.6140, 89.0060



# Previews

## White Background



This preview shows how the YIQ color 23.7100, -3.6740, 33.5580 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

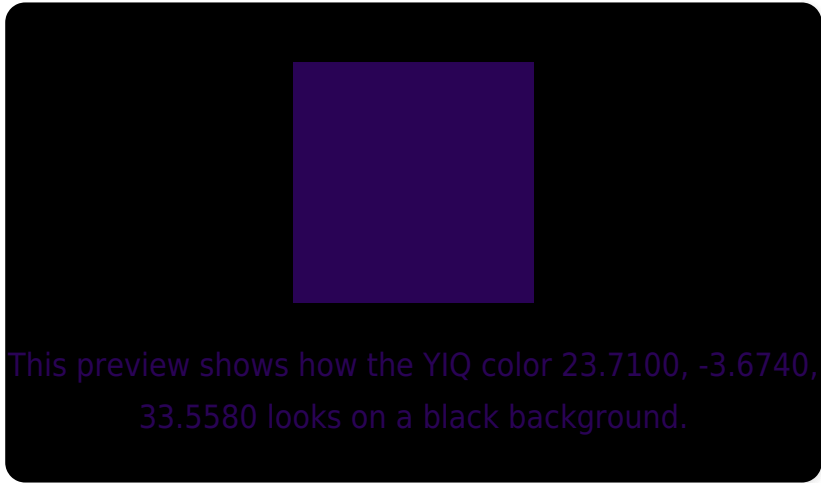
Any Text WCAG AA ✓ Pass

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

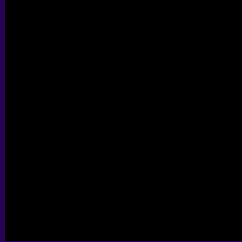
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 23.7100, -3.6740, 33.5580**

## **Background**



This preview shows how black text looks on a background with the YIQ color 23.7100, -3.6740, 33.5580.



This preview shows how white text looks on a background with the YIQ color 23.7100, -3.6740,



# 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

23.7100, -3.6740, 33.5580

### Protanopia

25.6070, -29.3900, 4.0020

### Deuteranopia

25.7550, -27.0510, 0.1570



## Tritanopia

31.2490, -5.1350, -0.5510

# Trichromacy



## Original Color

23.7100, -3.6740, 33.5580

## Protanomaly

25.0200, -19.9470, 14.5890

## Deuteranomaly

25.0370, -18.6170, 12.5110

## Tritanomaly

28.3390, -4.9080, 11.8600

# Monochromacy



## Original Color

23.7100, -3.6740, 33.5580

## Achromatopsia

24.0000, -0.0000, 0.0000

## Achromatomaly

23.6060, -1.2860, 12.2980

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 23.7100, -3.6740, 33.5580 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(41, 3, 85)` looks like.

```
.text, #text, p{  
    color:rgb(41, 3, 85)  
}
```

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(41, 3, 85) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(41, 3, 85) }
```

## Border

The CSS property to change the border of an element to YIQ 23.7100, -3.6740, 33.5580 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(41, 3, 85) }
```



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

```
.border{ border-color:rgb(41, 3, 85) }
```

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

Here you see how a box with a 4 pixel `rgb(41, 3, 85)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(41, 3, 85); -webkit-box-shadow:4px  
4px 4px 4px rgb(41, 3, 85); box-shadow:4px  
4px 4px 4px rgb(41, 3, 85) }
```

# Background

The CSS property to change the background color of an element to YIQ 23.7100, -3.6740, 33.5580 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(41, 3, 85) }
```

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

```
.background{ background-color: rgb(41, 3,  
85) }
```

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