

# Converting Colors

YIQ(33.5700, -17.6590, 39.2130)

Have a look what the booklet for  
YIQ(33.5700, -17.6590, 39.2130)  
contains.

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# Color

**YIQ(33.5700, -17.6590,  
39.2130)**

# Conversions

## Conversions Part 1

Format	Color
Hex	290D78
RGB	41, 13, 120
RGB Percent	16%, 5%, 47%
CMY	0.8391, 0.9491, 0.5296
CMYK	0.66, 0.89, 0.00, 0.53
HSL	256°, 80%, 26%
HSV	256°, 89%, 47%
XYZ	4.4474, 2.1148, 17.9307
YIQ	33.5700, -17.6590, 39.2130

# Conversions

## Conversions Part 2

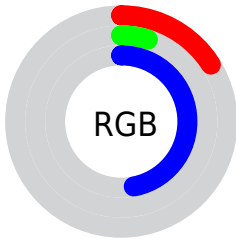
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	41, 13, 120
Decimal	2690424
CIE <sub>Lab</sub>	16.08, 41.90, -54.32
CIE <sub>LCh</sub>	16, 68.603, 307.650
Yxy	2.1148, 0.1816, 0.0863
Android (android.graphics.Color)	4280880504 (0xFF290D78)
YUV	33.5700, 42.6100, 6.5161
Hunter-Lab	14.5423, 29.1404, -62.9250

# Details

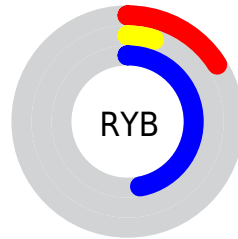
The YIQ color **33.5700, -17.6590, 39.2130** is a dark color, and the websafe version is hex **000066**. A complement of this color would be **99.4300, 17.6590, -39.2130**, and the grayscale version is **33.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **85.1300, -13.3040, 42.8880**, and **7.9800, -22.4700, 21.7700** is the 20% darker color. If you saturate the color by 10%, you get **23.8350, -19.7230, 43.5810**, and if you desaturate by 10%, it is **43.3050, -15.5950, 34.8450**.

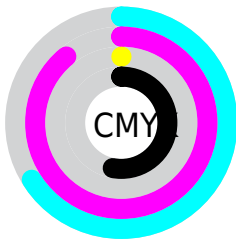
# Distribution



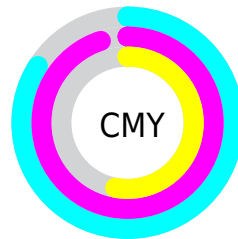
- Red (16%)
- Green (5%)
- Blue (47%)



- Red (16%)
- Yellow (5%)
- Blue (47%)



- Cyan (66%)
- Magenta (89%)
- Yellow (0%)
- Black (53%)



- Cyan (84%)
- Magenta (95%)
- Yellow (53%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 33.5700, -17.6590, 39.2130 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 33.5700, -17.6590, 39.2130 by changing the saturation by 10% instead.



■ 33.5700, -17.6590,  
39.2130

■ 33.5700, -17.6590,  
39.2130

■ 250.8910, 1.9250,  
3.6610

■ 10.7160, -30.1740,  
29.2340

■ 85.1300, -13.3040,  
42.8880

■ 7.9800, -22.4700,  
21.7700

■ 111.0700,  
-13.0750, 44.2450

■ 7.7060, -16.1870,  
12.5250

■ 137.4230,  
-12.5710, 46.1250

■ 3.4370, -8.3000,  
7.2520

■ 164.2060,  
-10.4620, 46.4500

■ 0.0000, 0.0000,  
0.0000

■ 188.7260, -0.6030,  
38.4770

■ 213.2460, 9.2560,

30.5040

233.8680, 9.9000,  
18.8280

33.5700, -17.6590,  
39.2130

33.5700, -17.6590,  
39.2130

23.8350, -19.7230,  
43.5810

43.3050, -15.5950,  
34.8450

22.9490, -20.0440,  
43.8920

53.0400, -13.5310,  
30.4770

62.7750, -11.4670,  
26.1090

72.2110, -9.9990,  
21.5290

81.9460, -7.9350,  
17.1610

■ 91.6810, -5.8710,  
12.7930

■ 101.4160, -3.8070,  
8.4250

■ 111.1510, -1.7430,  
4.0570

■ 120.8860, 0.3210,  
-0.3110

# Harmonies

## Analogous

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



42.4890, -57.6360, 20.3160



33.5700, -17.6590, 39.2130



39.3900, 35.7540, 45.8820

# Triad

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



33.5700, -17.6590, 39.2130



35.0620, 40.9880, 6.0760



39.3870, -32.3670, -13.6390

# Complementary

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



33.5700, -17.6590, 39.2130



99.4300, 17.6590, -39.2130

# 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.



32.2850, -15.1250, -28.7650



33.5700, -17.6590, 39.2130



36.9020, 11.4190, -14.2210

# Square

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



33.5700, -17.6590, 39.2130



31.6940, 63.1760, 22.4720



29.9370, -14.0250, -26.6730



44.8590, -47.7750, 1.2890



# Rectangle

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



33.5700, -17.6590, 39.2130



39.6290, 53.7740, 38.6860



29.9370, -14.0250, -26.6730



37.4490, -26.9100, -18.9260

# Sweetspot

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



33.5700, -17.6590, 39.2130



122.0770, -6.9260, 15.3940



72.1580, -56.3470, -8.5630



58.6440, -4.4490, 9.0470



207.0000, 0.0000, -0.0000



79.0000, -0.0000, 0.0000



# Same Dimension

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



33.5700, -17.6590, 39.2130



30.0430, -25.6400, 57.2080



49.1180, 13.3330, 50.2370



56.2820, -0.7340, 2.2900



24.1170, -20.4570, 45.8710



48.4620, -41.5560, 92.3640



# Inverse Universe

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



53.9990, 38.4130, 47.2530



59.7540, 56.0610, 68.8370



83.8820, -13.3330, -50.2370



57.3640, 1.9710, 2.8270



47.8630, 44.9680, 55.1120

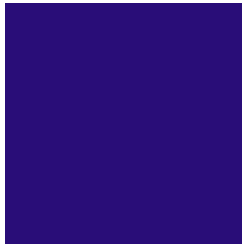


96.5520, 90.4860, 111.2700



# Previews

## White Background



This preview shows how the YIQ color 33.5700, -17.6590, 39.2130 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

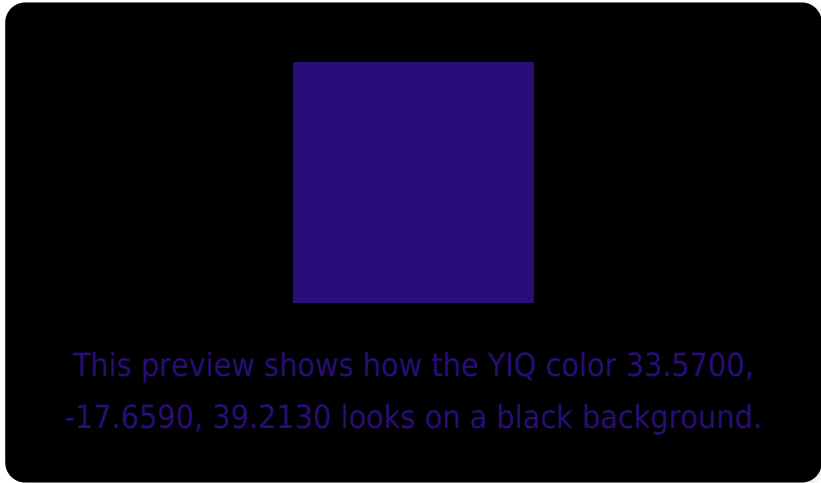
Any Text WCAG AA ✓ Pass

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

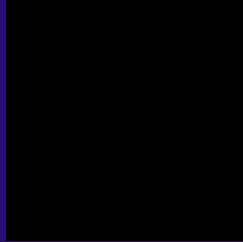
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 33.5700, -17.6590, 39.2130

## Background



This preview shows how black text looks on a background with the YIQ color 33.5700, -17.6590, 39.2130.



This preview shows how white text looks on a background with the YIQ color 33.5700, -17.6590,



# 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

33.5700, -17.6590, 39.2130

### Protanopia

33.1700, -38.2850, 5.5150

### Deuteranopia

33.4490, -34.9370, -0.0970



## Tritanopia

32.7020, -28.7000, -8.5080

# Trichromacy



## Original Color

33.5700, -17.6590, 39.2130

## Protanomaly

33.2670, -30.7680, 17.9680

## Deuteranomaly

33.4150, -28.4290, 14.1230

## Tritanomaly

32.9930, -24.4850, 8.7230

# Monochromacy



## Original Color

33.5700, -17.6590, 39.2130

## Achromatopsia

34.0000, -0.0000, 0.0000

## Achromatomaly

33.7350, -5.9630, 14.4610

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 33.5700, -17.6590, 39.2130 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, 13, 120)` looks like.

```
.text, #text, p{  
    color:rgb(41, 13, 120)  
}
```

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, 13, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(41, 13, 120) }
```

## Border

The CSS property to change the border of an element to YIQ 33.5700, -17.6590, 39.2130 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, 13, 120) }
```



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

```
.border{ border-color:rgb(41, 13, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(41, 13, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(41, 13, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(41, 13, 120);  
box-shadow:4px 4px 4px 4px rgb(41, 13,  
120) }
```

# Background

The CSS property to change the background color of an element to YIQ 33.5700, -17.6590, 39.2130 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(41, 13, 120) }
```

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

```
.background{ background-color: rgb(41, 13,  
120) }
```

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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