

# Converting Colors

YIQ(12.9710, 25.3070, 9.4270)

Have a look what the booklet for  
YIQ(12.9710, 25.3070, 9.4270)  
contains.

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# Color

**YIQ(12.9710, 25.3070,  
9.4270)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2B0001
RGB	43, 0, 1
RGB Percent	17%, 0%, 0%
CMY	0.8313, 1.0000, 0.9960
CMYK	0.00, 1.00, 0.98, 0.83
HSL	359°, 100%, 8%
HSV	359°, 100%, 17%
XYZ	1.0030, 0.5164, 0.0763
YIQ	12.9710, 25.3070, 9.4270

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">43, 0, 1</a>
Decimal	<a href="#">2818049</a>
CIELab	<a href="#">4.66, 20.60, 6.95</a>
CIELCh	<a href="#">5, 21.740, 18.649</a>
Yxy	<a href="#">0.5164, 0.6286, 0.3236</a>
Android (android.graphics.Color)	<a href="#">4281008129 (0xFF2B0001)</a>
YUV	<a href="#">12.9710, -5.9017, 26.3354</a>
Hunter-Lab	<a href="#">7.1861, 12.3378, 4.4011</a>

# Details

The YIQ color **12.9710, 25.3070, 9.4270** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **30.0290, -25.3070, -9.4270**, and the grayscale version is **13.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **59.4980, 25.2610, 10.2610**, and **0.0000, 0.0000, 0.0000** is the 20% darker color. If you saturate the color by 10%, you get **12.9710, 25.3070, 9.4270**, and if you desaturate by 10%, it is **15.7750, 22.9230, 8.5790**.

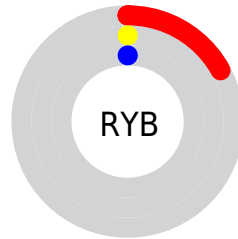
# Distribution



Red (17%)

Green (0%)

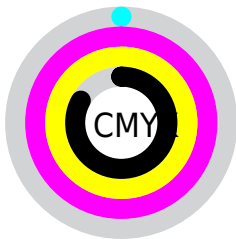
Blue (0%)



Red (17%)

Yellow (0%)

Blue (0%)

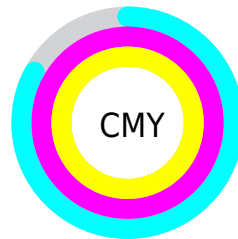


Cyan (0%)

Magenta (100%)

Yellow (98%)

Black (83%)



Cyan (83%)

Magenta (100%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 12.9710, 25.3070, 9.4270 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 12.9710, 25.3070, 9.4270 by changing the saturation by 10% instead.



■ 12.9710, 25.3070,  
9.4270

■ 12.9710, 25.3070,  
9.4270

■ 234.1980, 17.2380,  
6.9820

■ 0.0000, 0.0000,  
0.0000

■ 59.4980, 25.2610,  
10.2610

■ 82.9820, 26.7740,  
10.3740

■ 107.2920, 28.8370,  
11.5330

■ 132.8900, 30.0290,  
11.9570

■ 159.3740, 31.5420,  
12.0700

■ 186.6730, 32.1380,

12.2820

■ 214.2710, 33.3300,  
12.7060

■ 12.9710, 25.3070,  
9.4270

■ 15.7750, 22.9230,  
8.5790

■ 19.1660, 20.2640,  
7.2080

■ 22.0840, 17.5590,  
6.6710

■ 24.8880, 15.1750,  
5.8230

■ 28.2790, 12.5160,  
4.4520

■ 31.0830, 10.1320,  
3.6040

■ 33.8870, 7.7480,  
2.7560

■ 36.8050, 5.0430,  
2.2190

■ 40.1960, 2.3840,  
0.8480

# Harmonies

## Analogous

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



14.5820, 16.4570, 15.6330



12.9710, 25.3070, 9.4270



14.2970, 21.2730, 5.4410

# Triad

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



12.9710, 25.3070, 9.4270



13.5010, -6.3250, -12.0290



16.8700, -19.9450, 3.5350

# Complementary

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



12.9710, 25.3070, 9.4270



30.0290, -25.3070, -9.4270

# 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.



18.4200, -18.7980, -0.7340



12.9710, 25.3070, 9.4270



15.3590, -8.8010, -11.2090

# Square

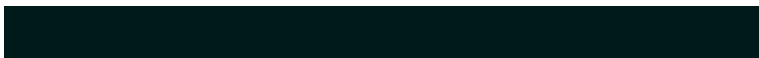
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



12.9710, 25.3070, 9.4270



13.5450, -0.4570, -8.2410



18.2260, -15.4960, -5.5120



14.7290, -14.9940, 7.4220



# Rectangle

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



12.9710, 25.3070, 9.4270



15.4380, 16.3220, 1.5540



18.2260, -15.4960, -5.5120



17.8160, -19.8530, 1.8670

# Sweetspot

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



12.9710, 25.3070, 9.4270



44.1970, 9.8110, 3.9150



17.4600, 11.2290, 22.2770



20.9900, 5.9600, 2.1200



156.0000, -0.0000, -0.0000



28.0000, -0.0000, 0.0000



# Same Dimension

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



12.9710, 25.3070, 9.4270



16.8580, 33.0550, 12.1830



24.5970, 20.1280, -1.3440



18.5980, 1.1920, 0.4240



25.3440, 49.4220, 18.4300



63.9580, 124.7470, 46.4990



# Inverse Universe

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



12.9710, 25.3070, 9.4270



16.8580, 33.0550, 12.1830



18.4030, -20.1280, 1.3440



18.5980, 1.1920, 0.4240



25.3440, 49.4220, 18.4300

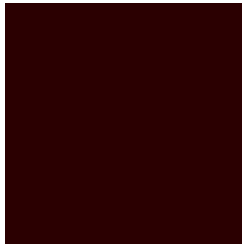


63.9580, 124.7470, 46.4990



# Previews

## White Background



This preview shows how the YIQ color 12.9710, 25.3070, 9.4270 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

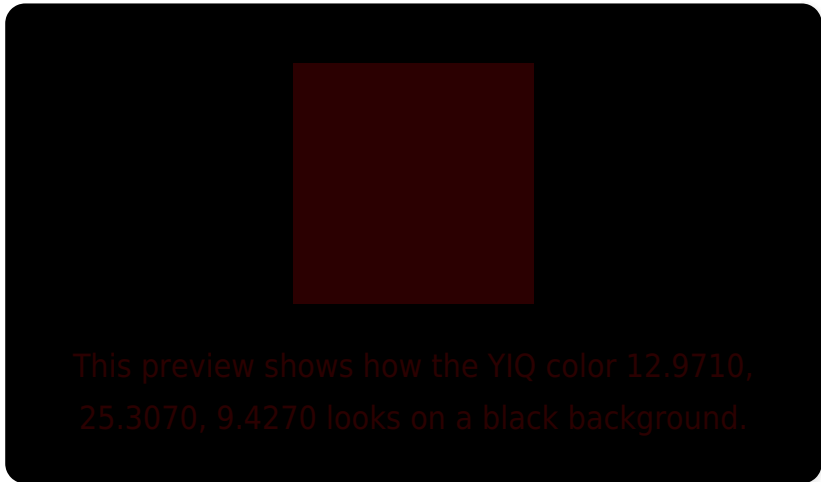
Any Text WCAG AA ✓ Pass

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

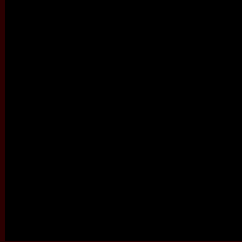
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 12.9710, 25.3070, 9.4270**

## **Background**



This preview shows how black text looks on a background with the YIQ color 12.9710, 25.3070, 9.4270.



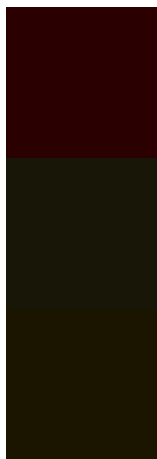
This preview shows how white text looks on a background with the YIQ color 12.9710, 25.3070,



# 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

12.9710, 25.3070, 9.4270

### Protanopia

20.7740, 6.3280, -4.5520

### Deuteranopia

20.4000, 10.3170, -5.2590



## Tritanopia

15.2050, 24.5280, 7.0240

# Trichromacy



## Original Color

12.9710, 25.3070, 9.4270

## Protanomaly

17.9430, 13.3420, 0.4940

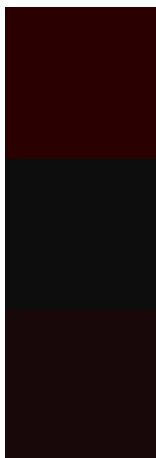
## Deuteranomaly

17.4980, 16.0930, 0.1970

## Tritanomaly

14.6180, 24.8030, 7.5470

# Monochromacy



## Original Color

12.9710, 25.3070, 9.4270

## Achromatopsia

13.0000, -0.0000, -0.0000

## Achromatomaly

12.8980, 9.2150, 3.7030

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 12.9710, 25.3070, 9.4270 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(43, 0, 1)` looks like.

```
.text, #text, p{  
    color:rgb(43, 0, 1)  
}
```

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(43, 0, 1) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(43, 0, 1) }
```

## Border

The CSS property to change the border of an element to YIQ 12.9710, 25.3070, 9.4270 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(43, 0, 1) }
```



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

```
.border{ border-color:rgb(43, 0, 1) }
```

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

Here you see how a box with a 4 pixel `rgb(43, 0, 1)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(43, 0, 1); -webkit-box-shadow:4px  
4px 4px 4px rgb(43, 0, 1); box-shadow:4px  
4px 4px 4px rgb(43, 0, 1) }
```

# Background

The CSS property to change the background color of an element to YIQ 12.9710, 25.3070, 9.4270 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(43, 0, 1) }
```

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

```
.background{ background-color: rgb(43, 0,  
1) }
```

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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