

# Converting Colors

YIQ(49.9250, -12.6100, 8.2700)

Have a look what the booklet for  
YIQ(49.9250, -12.6100, 8.2700)  
contains.

<b>YIQ(49.9250, -12.6100, 8.2700)</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(49.9250, -12.6100,  
8.2700)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2B304E
RGB	43, 48, 78
RGB Percent	17%, 19%, 31%
CMY	0.8314, 0.8118, 0.6942
CMYK	0.45, 0.38, 0.00, 0.69
HSL	231°, 29%, 24%
HSV	231°, 45%, 31%
XYZ	3.4279, 3.1775, 7.6369
YIQ	49.9250, -12.6100, 8.2700

# Conversions

## Conversions Part 2

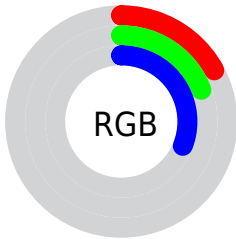
<b>Format</b>	<b>Color</b>
<b>RYB</b>	43, 47, 78
Decimal	2830414
CIELab	20.74, 6.83, -19.13
CIELCh	21, 20.315, 289.640
Yxy	3.1775, 0.2407, 0.2231
Android (android.graphics.Color)	4281020494 (0xFF2B304E)
YUV	49.9250, 13.8410, -6.0732
Hunter-Lab	17.8256, 3.1308, -12.9233

# Details

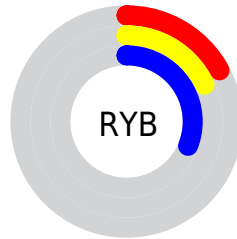
The YIQ color **49.9250, -12.6100, 8.2700** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **71.0750, 12.6100, -8.2700**, and the grayscale version is **50.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **96.5660, -12.9770, 9.4150**, and **3.8760, -10.9140, 10.5740** is the 20% darker color. If you saturate the color by 10%, you get **43.4240, -15.4530, 10.2350**, and if you desaturate by 10%, it is **56.4260, -9.7670, 6.3050**.

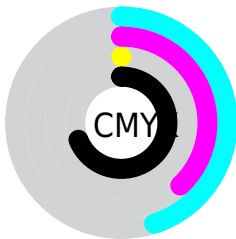
# Distribution



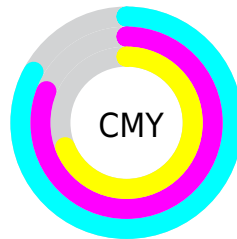
- Red (17%)
- Green (19%)
- Blue (31%)



- Red (17%)
- Yellow (18%)
- Blue (31%)



- Cyan (45%)
- Magenta (38%)
- Yellow (0%)
- Black (69%)



- Cyan (83%)
- Magenta (81%)
- Yellow (69%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 49.9250, -12.6100, 8.2700 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 49.9250, -12.6100, 8.2700 by changing the saturation by 10% instead.



■ 49.9250, -12.6100,  
8.2700

■ 49.9250, -12.6100,  
8.2700

■ 255.0000, -0.0000,  
-0.0000

■ 28.0990, -13.1600,  
7.2240

■ 96.5660, -12.9770,  
9.4150

■ 3.8760, -10.9140,  
10.5740

■ 121.0930,  
-13.0230, 10.2490

■ 0.9120, -2.5680,  
2.4880

■ 147.2070,  
-13.3440, 10.5600

■ 0.0000, 0.0000,  
0.0000

■ 174.3210,  
-13.6650, 10.8710

■ 201.4350,  
-13.9860, 11.1820

■ 228.4090,

-11.0970, 8.3830

253.5160, -1.5130,  
-0.1130

49.9250, -12.6100,  
8.2700

49.9250, -12.6100,  
8.2700

43.4240, -15.4530,  
10.2350

56.4260, -9.7670,  
6.3050

37.5100, -18.5710,  
11.6770

62.3400, -6.6490,  
4.8630

31.3080, -20.8180,  
13.8540

68.5420, -4.4020,  
2.6860

24.8070, -23.6610,  
15.8190

75.0430, -1.5590,  
0.7210

18.8930, -26.7790,  
17.2610

80.9570, 1.5590,  
-0.7210

■ 15.3490, -28.0630,  
18.5050

■ 87.4580, 4.4020,  
-2.6860

■ 93.9590, 7.2450,  
-4.6510

■ 99.5740, 9.7670,  
-6.3050

■ 106.0750, 12.6100,  
-8.2700

# Harmonies

## Analogous

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



43.1070, -33.9740, -1.0300



49.9250, -12.6100, 8.2700



51.3570, 3.8490, 12.8490

# Triad

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



49.9250, -12.6100, 8.2700



49.9720, 23.5660, 2.4300



40.5680, -25.6270, -14.6430

# Complementary

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



49.9250, -12.6100, 8.2700



71.0750, 12.6100, -8.2700

# 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.



45.2730, -5.6830, -12.6510



49.9250, -12.6100, 8.2700



48.7060, 18.2030, -5.0050

# Square

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



49.9250, -12.6100, 8.2700



50.3020, 22.8770, 9.4130



47.5690, 8.1630, -10.2770



40.7720, -34.8890, -11.9850



# Rectangle

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



49.9250, -12.6100, 8.2700



51.3750, 12.6060, 13.8380



47.5690, 8.1630, -10.2770



42.9880, -18.0620, -14.0780

# Sweetspot

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



49.9250, -12.6100, 8.2700



91.6560, -4.7230, 2.9970



66.9650, -19.2550, -8.9750



44.4990, -2.8430, 1.9650



179.0000, -0.0000, -0.0000



51.0000, -0.0000, -0.0000



# Same Dimension

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



49.9250, -12.6100, 8.2700



57.9660, -19.8550, 12.9210



50.5780, -4.0830, 13.4290



35.0430, -1.5590, 0.7210



20.4330, -36.8670, 23.8770



45.5910, -82.9050, 54.2710



# Inverse Universe

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



54.0350, 19.2550, 8.9750



64.3570, 30.2120, 14.1480



70.4220, 4.0830, -13.4290



35.3100, 2.0630, 1.1590



32.2080, 55.9770, 26.2890



72.5320, 126.4870, 59.0230



# Previews

## White Background



This preview shows how the YIQ color 49.9250, -12.6100, 8.2700 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

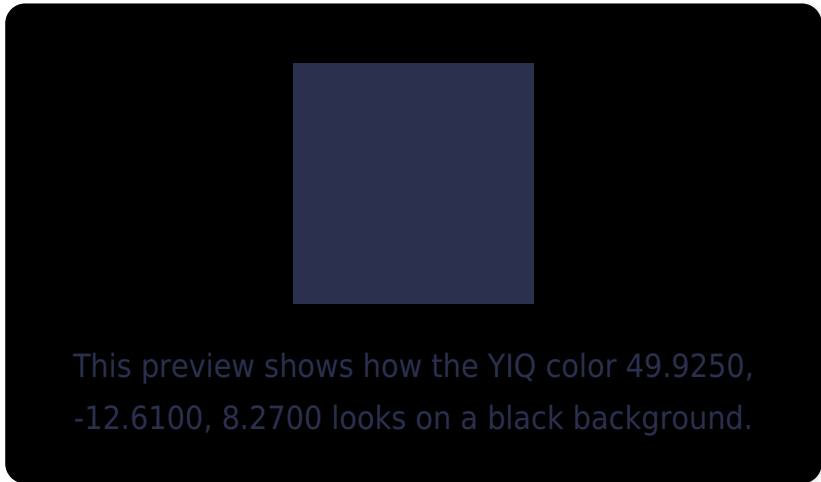
Any Text WCAG AA ✓ Pass

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

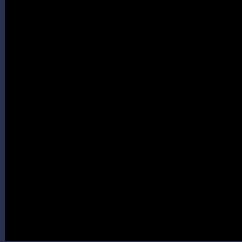
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 49.9250, -12.6100, 8.2700**

## **Background**



This preview shows how black text looks on a background with the YIQ color 49.9250, -12.6100, 8.2700.



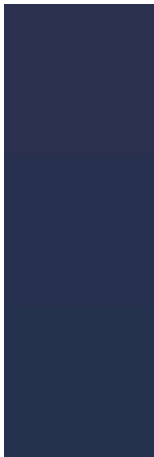
This preview shows how white text looks on a background with the YIQ color 49.9250, -12.6100,



# 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

49.9250, -12.6100, 8.2700

### Protanopia

49.4300, -15.5900, 7.2100

### Deuteranopia

49.0060, -17.3320, 5.7400



**Tritanopia**

48.0850, -10.5450, -1.6250

# Trichromacy



## Original Color

49.9250, -12.6100, 8.2700

## Protanomaly

49.7290, -14.9940, 7.4220

## Deuteranomaly

49.3160, -15.2690, 6.8990

## Tritanomaly

49.0080, -11.6460, 1.8100

# Monochromacy



## Original Color

49.9250, -12.6100, 8.2700

## Achromatopsia

50.0000, -0.0000, -0.0000

## Achromatomaly

49.6560, -4.7230, 2.9970

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 49.9250, -12.6100, 8.2700 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, 48, 78)` looks like.

```
.text, #text, p{  
    color:rgb(43, 48, 78)  
}
```

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, 48, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(43, 48, 78) }
```

## Border

The CSS property to change the border of an element to YIQ 49.9250, -12.6100, 8.2700 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, 48, 78) }
```



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

```
.border{ border-color:rgb(43, 48, 78) }
```

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

Here you see how a box with a 4 pixel `rgb(43, 48, 78)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(43, 48, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(43, 48, 78);  
box-shadow:4px 4px 4px 4px rgb(43, 48, 78)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 49.9250, -12.6100, 8.2700 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(43, 48, 78) }
```

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

```
.background{ background-color: rgb(43, 48,  
78) }
```

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