

# Converting Colors

YIQ(49.3680, -13.0200, -6.3320)

Have a look what the booklet for  
YIQ(49.3680, -13.0200, -6.3320)  
contains.

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# Color

**YIQ(49.3680, -13.0200,  
-6.3320)**

# Conversions

## Conversions Part 1

Format	Color
Hex	213935
RGB	33, 57, 53
RGB Percent	13%, 22%, 21%
CMY	0.8706, 0.7764, 0.7922
CMYK	0.42, 0.00, 0.07, 0.78
HSL	170°, 27%, 18%
HSV	170°, 42%, 22%
XYZ	2.7327, 3.5073, 3.8996
YIQ	49.3680, -13.0200, -6.3320

# Conversions

## Conversions Part 2

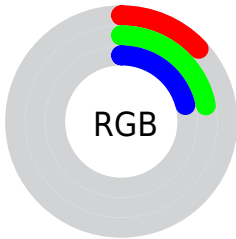
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	33, 46, 57
Decimal	2177333
CIE <sub>Lab</sub>	21.97, -10.49, -0.46
CIE <sub>LCh</sub>	22, 10.502, 182.502
Yxy	3.5073, 0.2695, 0.3459
Android (android.graphics.Color)	4280367413 (0xFF213935)
YUV	49.3680, 1.7906, -14.3547
Hunter-Lab	18.7277, -6.7275, 0.7636

# Details

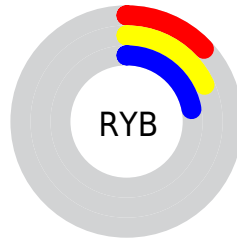
The YIQ color **49.3680, -13.0200, -6.3320** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **40.6320, 13.0200, 6.3320**, and the grayscale version is **49.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **95.9550, -13.2950, -6.8550**, and **8.5430, -6.1430, -4.3110** is the 20% darker color. If you saturate the color by 10%, you get **47.4600, -16.2750, -7.9150**, and if you desaturate by 10%, it is **51.2760, -9.7650, -4.7490**.

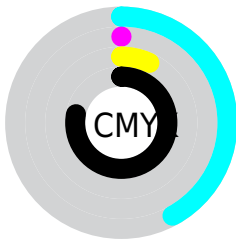
# Distribution



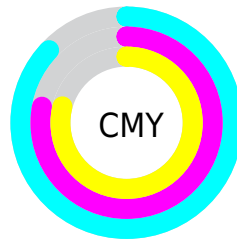
- Red (13%)
- Green (22%)
- Blue (21%)



- Red (13%)
- Yellow (18%)
- Blue (22%)



- Cyan (42%)
- Magenta (0%)
- Yellow (7%)
- Black (78%)



- Cyan (87%)
- Magenta (78%)
- Yellow (79%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 49.3680, -13.0200, -6.3320 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 49.3680, -13.0200, -6.3320 by changing the saturation by 10% instead.



■ 49.3680, -13.0200,  
-6.3320

■ 49.3680, -13.0200,  
-6.3320

■ 255.0000, -0.0000,  
-0.0000

■ 27.4820, -13.3410,  
-6.0210

■ 95.9550, -13.2950,  
-6.8550

■ 8.5430, -6.1430,  
-4.3110

■ 120.6560,  
-13.8910, -7.0670

■ 0.0000, 0.0000,  
0.0000


■ 146.3570,  
-14.4870, -7.2790


■ 173.3570,  
-14.4870, -7.2790


■ 200.6450,  
-15.3580, -8.0140


■ 228.6450,


-15.3580, -8.0140


 249.9170,  
-10.1320, -3.6040


 49.3680, -13.0200,  
-6.3320


 49.3680, -13.0200,  
-6.3320


 47.4600, -16.2750,  
-7.9150


 51.2760, -9.7650,  
-4.7490


 45.8510, -18.9340,  
-9.2860


 52.8850, -7.1060,  
-3.3780


 43.9430, -22.1890,  
-10.8690

 54.7930, -3.8510,  
-1.7950

 42.0350, -25.4440,  
-12.4520

 56.7010, -0.5960,  
-0.2120

 40.1270, -28.6990,  
-14.0350

 58.3100, 2.0630,  
1.1590

■ 38.8170, -30.7620,  
-15.1940

■ 60.2180, 5.3180,  
2.7420

■ 62.1260, 8.5730,  
4.3250

■ 64.0340, 11.8280,  
5.9080

■ 65.6430, 14.4870,  
7.2790

# Harmonies

## Analogous

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



49.9620, -6.0050, -6.8130



49.3680, -13.0200, -6.3320



49.3830, -17.3760, -4.4800

# Triad

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



49.3680, -13.0200, -6.3320



53.3190, -2.1560, 6.0360



52.9320, 11.8750, -0.4530

# Complementary

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



49.3680, -13.0200, -6.3320



40.6320, 13.0200, 6.3320

# 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.



53.6380, 12.8830, 3.3070



49.3680, -13.0200, -6.3320



53.8530, 5.0880, 6.9120

# Square

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



49.3680, -13.0200, -6.3320



52.0190, -10.1790, 2.7570



53.8490, 10.9110, 6.0070



52.0840, 8.3910, -3.3930



# Rectangle

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



49.3680, -13.0200, -6.3320



49.8500, -17.1930, -2.2890



53.8490, 10.9110, 6.0070



53.1710, 12.7000, 1.1160

# Sweetspot

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



49.3680, -13.0200, -6.3320



70.7820, -5.3180, -2.7420



48.2840, -4.2160, -11.7040



36.0920, -3.2550, -1.5830



166.0000, -0.0000, 0.0000



38.0000, -0.0000, -0.0000



# Same Dimension

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



49.3680, -13.0200, -6.3320



61.9540, -20.7220, -9.9220



45.1280, -12.1040, -0.9040



27.1030, -1.7880, -0.6360



62.6680, -49.6960, -24.4800



149.4150, -118.9680, -57.6240



# Inverse Universe

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



40.6320, 13.0200, 6.3320



48.1600, 20.4010, 10.2330



44.8720, 12.1040, 0.9040



26.0110, 1.4670, 0.9470



29.2180, 50.0170, 24.1690

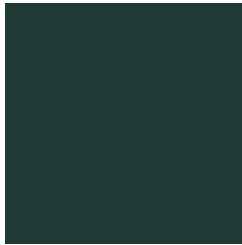


69.6990, 118.6470, 57.9350



# Previews

## White Background



This preview shows how the YIQ color 49.3680, -13.0200, -6.3320 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

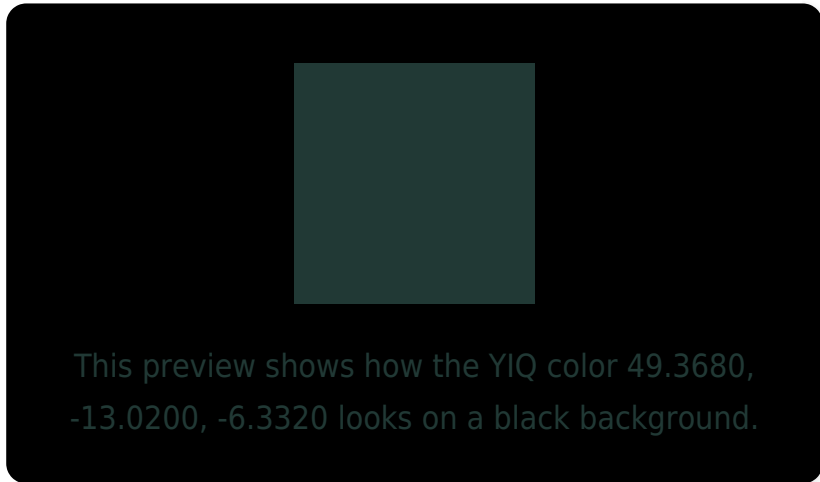
Any Text WCAG AA ✓ Pass

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

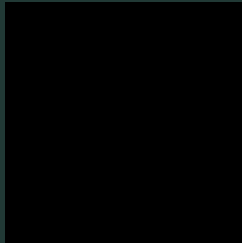
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 49.3680, -13.0200, -6.3320**

## **Background**



This preview shows how black text looks on a background with the YIQ color 49.3680, -13.0200, -6.3320.



This preview shows how white text looks on a background with the YIQ color 49.3680, -13.0200,

-6.3320.

# 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

49.3680, -13.0200, -6.3320

### Protanopia

52.3700, 1.8340, -0.1980

### Deuteranopia

53.1360, 2.6130, 2.2050



## Tritanopia

50.1770, -13.8000, -3.2080

# Trichromacy



## Original Color

49.3680, -13.0200, -6.3320

## Protanomaly

51.2660, -3.8050, -2.6290

## Deuteranomaly

51.6190, -3.3010, -0.7490

## Tritanomaly

49.5360, -13.4330, -4.3530

# Monochromacy



## Original Color

49.3680, -13.0200, -6.3320

## Achromatopsia

49.0000, -0.0000, -0.0000

## Achromatomaly

49.0810, -4.7220, -2.5300

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 49.3680, -13.0200, -6.3320 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(33, 57, 53)` looks like.

```
.text, #text, p{  
    color:rgb(33, 57, 53)  
}
```

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(33, 57, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 57, 53) }
```

## Border

The CSS property to change the border of an element to YIQ 49.3680, -13.0200, -6.3320 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(33, 57, 53) }
```



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

```
.border{ border-color:rgb(33, 57, 53) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 57, 53)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 57, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 57, 53);  
box-shadow:4px 4px 4px 4px rgb(33, 57, 53)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 49.3680, -13.0200, -6.3320 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 57, 53) }
```

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

```
.background{ background-color: rgb(33, 57,  
53) }
```

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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