

# Converting Colors

YIQ(48.3620, -12.8830, -3.3070)

Have a look what the booklet for  
YIQ(48.3620, -12.8830, -3.3070)  
contains.

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# Color

**YIQ(48.3620, -12.8830,  
-3.3070)**

# Conversions

## Conversions Part 1

Format	Color
Hex	223639
RGB	34, 54, 57
RGB Percent	13%, 21%, 22%
CMY	0.8667, 0.7882, 0.7765
CMYK	0.40, 0.05, 0.00, 0.78
HSL	188°, 25%, 18%
HSV	188°, 40%, 22%
XYZ	2.7170, 3.2743, 4.3579
YIQ	48.3620, -12.8830, -3.3070

# Conversions

## Conversions Part 2

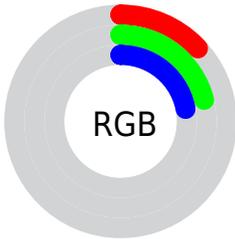
<b>Format</b>	<b>Color</b>
<b>RYB</b>	34, 45, 57
Decimal	2242105
CIELab	21.11, -7.08, -4.43
CIElCh	21, 8.349, 212.040
Yxy	3.2743, 0.2625, 0.3164
Android (android.graphics.Color)	4280432185 (0xFF223639)
YUV	48.3620, 4.2585, -12.5955
Hunter-Lab	18.0949, -4.8636, -1.6127

# Details

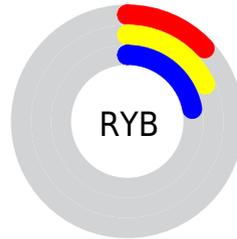
The YIQ color **48.3620, -12.8830, -3.3070** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **42.6380, 12.8830, 3.3070**, and the grayscale version is **48.0000, -0.0000, 0.0000**.

A 20% lighter version of the original color is **95.0630, -13.4790, -3.5190**, and **6.2920, -6.6940, 0.1700** is the 20% darker color. If you saturate the color by 10%, you get **45.9810, -16.1840, -4.0560**, and if you desaturate by 10%, it is **50.7430, -9.5820, -2.5580**.

# Distribution



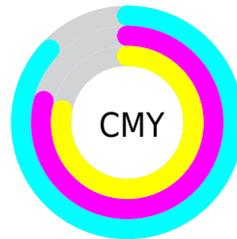
- Red (13%)
- Green (21%)
- Blue (22%)



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



- Cyan (40%)
- Magenta (5%)
- Yellow (0%)
- Black (78%)



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

# Brightness & Saturation Gradients

These gradients show how the YIQ color 48.3620, -12.8830, -3.3070 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 48.3620, -12.8830, -3.3070 by changing the saturation by 10% instead.

■ 48.3620, -12.8830,  
-3.3070

■ 48.3620, -12.8830,  
-3.3070

■ 255.0000, -0.0000,  
-0.0000

■ 27.3620, -12.8830,  
-3.3070

■ 95.0630, -13.4790,  
-3.5190

■ 6.2920, -6.6940,  
0.1700

■ 119.7640,  
-14.0750, -3.7310

■ 0.0000, 0.0000,  
0.0000

■ 145.4650,  
-14.6710, -3.9430

■ 171.8780,  
-14.3960, -3.4200

■ 199.1660,  
-15.2670, -4.1550

■ 227.2800,

-15.5880, -3.8440

■ 250.2160, -9.5360,  
-3.3920

■ 48.3620, -12.8830,  
-3.3070

■ 48.3620, -12.8830,  
-3.3070

■ 45.9810, -16.1840,  
-4.0560

■ 50.7430, -9.5820,  
-2.5580

■ 44.4860, -19.1640,  
-5.1160

■ 52.2380, -6.6020,  
-1.4980

■ 42.1050, -22.4650,  
-5.8650

■ 54.6190, -3.3010,  
-0.7490

■ 39.7240, -25.7660,  
-6.6140

■ 57.0000, 0.0000,  
0.0000

■ 37.3430, -29.0670,  
-7.3630

■ 59.0820, 2.7050,  
0.5370

■ 35.8480, -32.0470,  
-8.4230

■ 60.8760, 6.2810,  
1.8090

■ 63.2570, 9.5820,  
2.5580

■ 65.6380, 12.8830,  
3.3070

■ 67.7200, 15.5880,  
3.8440

# Harmonies

## Analogous

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



48.2760, -9.7650, -4.7490



48.3620, -12.8830, -3.3070



49.1280, -12.1040, -0.9040

# Triad

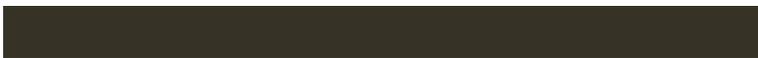
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



48.3620, -12.8830, -3.3070



51.7280, 3.9420, 5.6540



50.1270, 6.8320, -2.6720

# Complementary

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



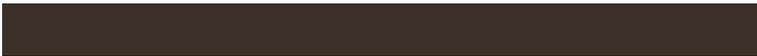
48.3620, -12.8830, -3.3070



42.6380, 12.8830, 3.3070

# 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.



50.6760, 9.7200, 0.0560



48.3620, -12.8830, -3.3070



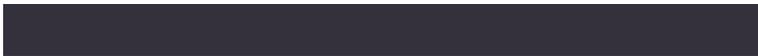
51.6530, 8.5270, 5.1590

# Square

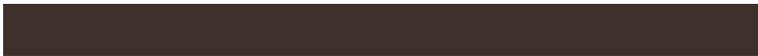
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



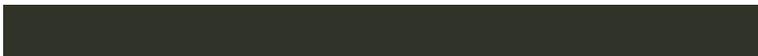
48.3620, -12.8830, -3.3070



51.2650, -2.0640, 4.3680



51.4420, 10.4990, 2.4590



49.4360, 1.4680, -4.5800

# Rectangle

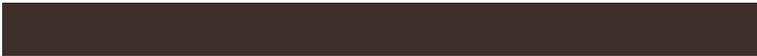
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.3620, -12.8830, -3.3070



50.2640, -9.4910, 1.3010



51.4420, 10.4990, 2.4590



50.8390, 7.7030, -1.9370

# Sweetspot

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



48.3620, -12.8830, -3.3070



70.7220, -5.0890, -1.3850



47.8430, -7.2880, -11.0960



36.5050, -2.9800, -1.0600



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.



48.3620, -12.8830, -3.3070



60.3010, -20.0810, -5.0170



41.9050, -9.8580, 2.4460



27.1030, -1.7880, -0.6360



57.4480, -51.5320, -13.2280



137.0830, -122.8240, -31.7840



# Inverse Universe

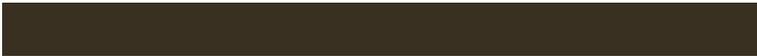
The Inverse Universe completely reimagines the original color for something new.



43.1570, 7.2880, 11.0960



52.2980, 11.5050, 17.2730



49.0950, 9.8580, -2.4460



26.2390, 0.8250, 1.5690



36.6280, 29.1520, 44.3840



87.2550, 69.2130, 105.8290



# Previews

## White Background



This preview shows how the YIQ color 48.3620, -12.8830, -3.3070 looks on a white background.

## Color Contrast Check

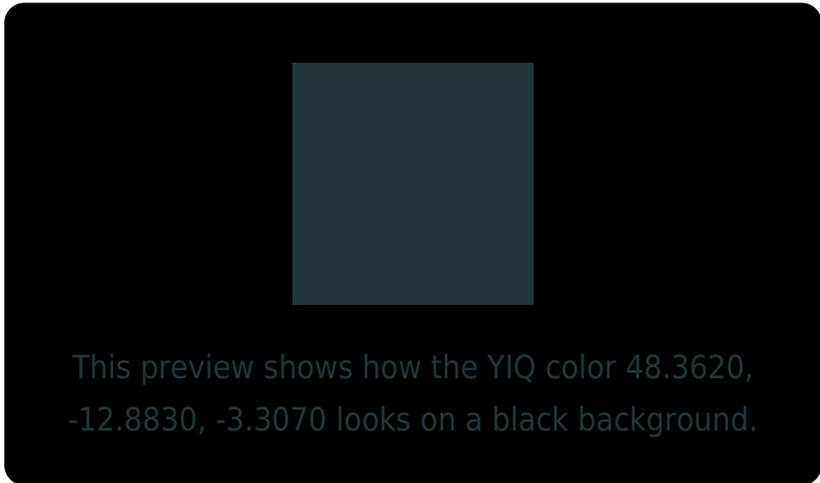
Large Text (above 18pt) WCAG AA ✓ Pass

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 48.3620, -12.8830, -3.3070**

## **Background**



This preview shows how black text looks on a background with the YIQ color 48.3620, -12.8830, -3.3070.



This preview shows how white text looks on a background with the YIQ color 48.3620, -12.8830,

-3.3070.

# 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

48.3620, -12.8830, -3.3070

### Protanopia

50.5700, -1.6050, 1.5550

### Deuteranopia

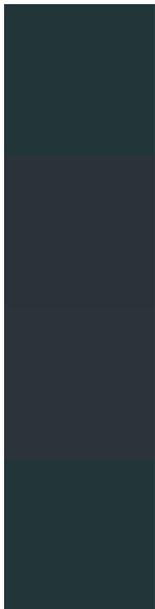
50.9230, -1.1010, 3.4350



## Tritanopia

48.4760, -13.2040, -2.9960

# Trichromacy



## Original Color

48.3620, -12.8830, -3.3070

## Protanomaly

49.4770, -5.7770, 0.0710

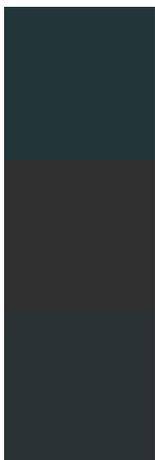
## Deuteranomaly

50.0040, -5.8230, 0.9050

## Tritanomaly

48.4760, -13.2040, -2.9960

# Monochromacy



## Original Color

48.3620, -12.8830, -3.3070

## Achromatopsia

48.0000, -0.0000, 0.0000

## Achromatomaly

48.0210, -4.4930, -1.1730

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 48.3620, -12.8830, -3.3070 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(34, 54, 57)` looks like.

```
.text, #text, p{  
    color:rgb(34, 54, 57)  
}
```

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(34, 54, 57) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(34, 54, 57) }
```

## Border

The CSS property to change the border of an element to YIQ 48.3620, -12.8830, -3.3070 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(34, 54, 57) }
```

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

```
.border{ border-color:rgb(34, 54, 57) }
```

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

Here you see how a box with a 4 pixel rgb(34, 54, 57) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(34, 54, 57); -webkit-box-  
shadow:4px 4px 4px 4px rgb(34, 54, 57);  
box-shadow:4px 4px 4px 4px rgb(34, 54, 57)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 48.3620, -12.8830, -3.3070 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(34, 54, 57) }
```

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

```
.background{ background-color: rgb(34, 54,  
57) }
```

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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