

# Converting Colors

YIQ(68.5430, -23.3380, 4.4540)

Have a look what the booklet for  
YIQ(68.5430, -23.3380, 4.4540)  
contains.

<b>YIQ(68.5430, -23.3380, 4.4540)</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(68.5430, -23.3380,  
4.4540)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	314866
RGB	49, 72, 102
RGB Percent	19%, 28%, 40%
CMY	0.8079, 0.7176, 0.6001
CMYK	0.52, 0.29, 0.00, 0.60
HSL	214°, 35%, 30%
HSV	214°, 52%, 40%
XYZ	5.9810, 6.2475, 13.4533
YIQ	68.5430, -23.3380, 4.4540

# Conversions

## Conversions Part 2

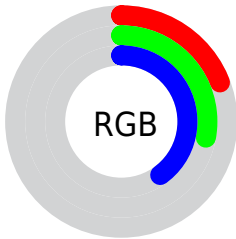
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	49, 65, 102
Decimal	3229798
CIE <sub>Lab</sub>	30.03, 0.48, -20.25
CIE <sub>LCh</sub>	30, 20.260, 271.350
Yxy	6.2475, 0.2329, 0.2433
Android (android.graphics.Color)	4281419878 (0xFF314866)
YUV	68.5430, 16.4943, -17.1392
Hunter-Lab	24.9949, -1.0282, -14.4160




# Details

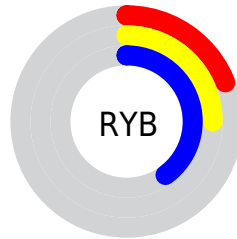
The YIQ color **68.5430, -23.3380, 4.4540** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **82.4570, 23.3380, -4.4540**, and the grayscale version is **68.0000, -0.0000, 0.0000**.



A 20% lighter version of the original color is **117.4830, -23.1090, 5.8110**, and **23.2930, -25.6300, 1.9380** is the 20% darker color. If you saturate the color by 10%, you get **62.0310, -27.6480, 5.4720**, and if you desaturate by 10%, it is **75.0550, -19.0280, 3.4360**.

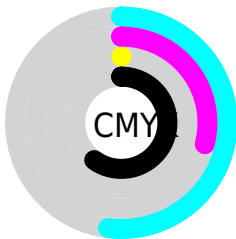
# Distribution







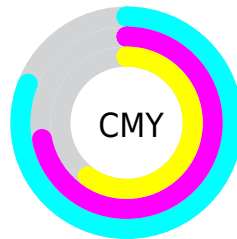
-  Red (19%)
-  Green (28%)
-  Blue (40%)






-  Red (19%)
-  Yellow (25%)
-  Blue (40%)



-  Cyan (52%)
-  Magenta (29%)
-  Yellow (0%)
-  Black (60%)



-  Cyan (81%)
-  Magenta (72%)
-  Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 68.5430, -23.3380, 4.4540 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 68.5430, -23.3380, 4.4540 by changing the saturation by 10% instead.



■ 68.5430, -23.3380,  
4.4540

■ 68.5430, -23.3380,  
4.4540

■ 255.0000, -0.0000,  
-0.0000

■ 45.4180, -24.4840,  
3.1960

■ 117.4830,  
-23.1090, 5.8110

■ 23.2930, -25.6300,  
1.9380

■ 143.2980,  
-24.0260, 5.9100

■ 5.0500, -11.4640,  
9.5280

■ 169.8250,  
-24.0720, 6.7440

■ 0.7980, -2.2470,  
2.1770

■ 197.5260,  
-24.6680, 6.5320

■ 0.0000, 0.0000,  
0.0000

■ 224.5000,  
-21.7790, 3.7330

■ 249.0200,

-11.9200, -4.2400

■ 68.5430, -23.3380,  
4.4540

■ 68.5430, -23.3380,  
4.4540

■ 62.0310, -27.6480,  
5.4720

■ 75.0550, -19.0280,  
3.4360

■ 55.5190, -31.9580,  
6.4900

■ 81.5670, -14.7180,  
2.4180

■ 49.2950, -37.1390,  
6.7730

■ 87.7910, -9.5370,  
2.1350

■ 42.7830, -41.4490,  
7.7910

■ 94.3030, -5.2270,  
1.1170

■ 37.4560, -44.8420,  
8.7100

■ 100.8150, -0.9170,  
0.0990

■ 107.3270, 3.3930,  
-0.9190

■ 113.2520, 7.9780,  
-1.4140

■ 120.0630, 12.8840,  
-2.2200

■ 126.5750, 17.1940,  
-3.2380

# Harmonies

## Analogous

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



62.0630, -39.8420, -4.8180



68.5430, -23.3380, 4.4540



71.7410, -6.1000, 11.4360

# Triad

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



68.5430, -23.3380, 4.4540



71.6890, 26.0410, 7.1370



65.5110, -12.2850, -14.1490

# Complementary

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



68.5430, -23.3380, 4.4540



82.4570, 23.3380, -4.4540

# 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.



68.0630, 3.7160, -12.2840



68.5430, -23.3380, 4.4540



70.8640, 23.7500, -0.9060

# Square

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



68.5430, -23.3380, 4.4540



72.0400, 20.8590, 12.9470



69.4560, 15.9110, -7.5210



61.3440, -30.8080, -14.3600



# Rectangle

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



68.5430, -23.3380, 4.4540



73.0690, 4.7200, 13.5840



69.4560, 15.9110, -7.5210



66.5610, -6.5540, -13.3860

# Sweetspot

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



68.5430, -23.3380, 4.4540



119.3780, -9.8120, 1.6120



83.4170, -23.8840, -18.7000



58.3030, -5.2270, 1.1170



194.0000, -0.0000, 0.0000



66.0000, -0.0000, -0.0000



# Same Dimension

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



68.5430, -23.3380, 4.4540



80.5940, -36.5430, 6.9850



55.9390, -15.2250, 17.1190



47.7440, -2.1550, 0.5090



42.4600, -50.6650, 9.6150



89.2230, -106.5570, 20.3470



# Inverse Universe

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



67.4690, 24.2050, 18.3890



78.9210, 37.9120, 28.7920



95.0610, 15.2250, -17.1190



47.7230, 2.3380, 1.6820



40.0850, 52.4900, 39.9300

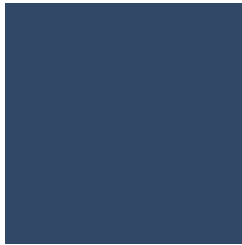


84.3280, 110.5270, 83.9590



# Previews

## White Background



This preview shows how the YIQ color 68.5430, -23.3380, 4.4540 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

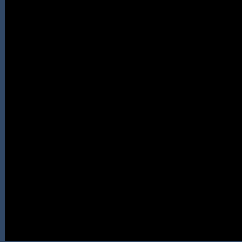
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

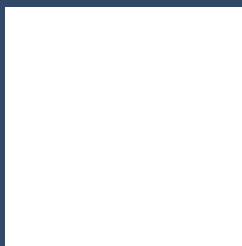
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# YIQ 68.5430, -23.3380, 4.4540

## Background



This preview shows how black text looks on a background with the YIQ color 68.5430, -23.3380, 4.4540.



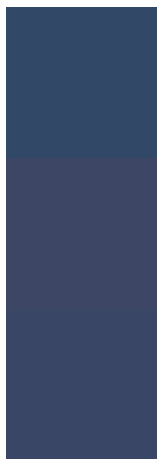
This preview shows how white text looks on a background with the YIQ color 68.5430, -23.3380,



# 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

68.5430, -23.3380, 4.4540

### Protanopia

70.7290, -14.9940, 7.4220

### Deuteranopia

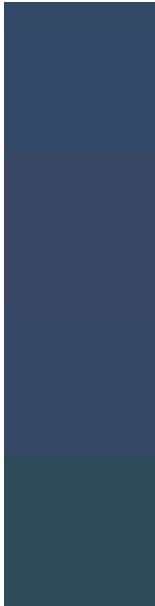
70.0600, -17.4240, 7.4080



## Tritanopia

66.5180, -22.1900, -5.3420

# Trichromacy



## Original Color

68.5430, -23.3380, 4.4540

## Protanomaly

70.2340, -17.9740, 6.3620

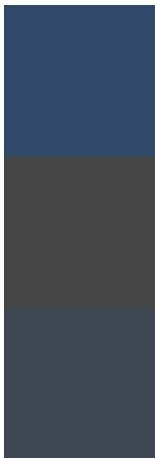
## Deuteranomaly

69.7500, -19.4870, 6.2490

## Tritanomaly

67.6260, -22.3740, -2.0060

# Monochromacy



## Original Color

68.5430, -23.3380, 4.4540

## Achromatopsia

69.0000, -0.0000, -0.0000

## Achromatomaly

68.8620, -8.2990, 1.7250

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 68.5430, -23.3380, 4.4540 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(49, 72, 102)` looks like.

```
.text, #text, p{  
    color:rgb(49, 72, 102)  
}
```

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(49, 72, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 72, 102) }
```

## Border

The CSS property to change the border of an element to YIQ 68.5430, -23.3380, 4.4540 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(49, 72, 102) }
```



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

```
.border{ border-color:rgb(49, 72, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 72, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 72, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 72, 102);  
box-shadow:4px 4px 4px 4px rgb(49, 72,  
102) }
```

# Background

The CSS property to change the background color of an element to YIQ 68.5430, -23.3380, 4.4540 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 72, 102) }
```

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

```
.background{ background-color: rgb(49, 72,  
102) }
```

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