

# Converting Colors

YIQ(86.8590, -21.4120, 2.5880)

Have a look what the booklet for  
YIQ(86.8590, -21.4120, 2.5880)  
contains.

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# Color

**YIQ(86.8590, -21.4120,  
2.5880)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	445B73
RGB	68, 91, 115
RGB Percent	27%, 36%, 45%
CMY	0.7334, 0.6431, 0.5491
CMYK	0.41, 0.21, 0.00, 0.55
HSL	211°, 26%, 36%
HSV	211°, 41%, 45%
XYZ	9.2181, 9.9496, 17.6463
YIQ	86.8590, -21.4120, 2.5880

# Conversions

## Conversions Part 2

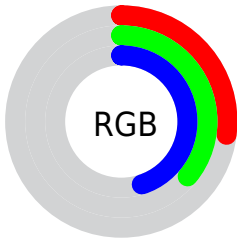
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	68, 83, 115
Decimal	4479859
CIE Lab	37.75, -1.97, -16.37
CIE LCh	38, 16.484, 263.150
Yxy	9.9496, 0.2504, 0.2703
Android (android.graphics.Color)	4282669939 (0xFF445B73)
YUV	86.8590, 13.8735, -16.5393
Hunter-Lab	31.5430, -3.0356, -11.0889

# Details

The YIQ color **86.8590, -21.4120, 2.5880** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **96.1410, 21.4120, -2.5880**, and the grayscale version is **87.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **137.0870, -22.0540, 3.2100**, and **40.0330, -21.9620, 1.5420** is the 20% darker color. If you saturate the color by 10%, you get **79.7490, -26.9140, 3.1820**, and if you desaturate by 10%, it is **93.6700, -16.5060, 1.7820**.

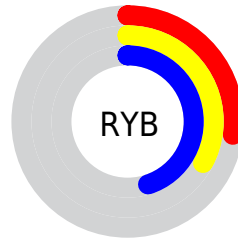
# Distribution



Red (27%)

Green (36%)

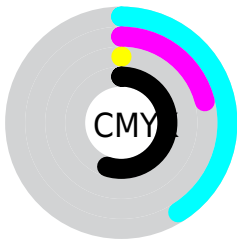
Blue (45%)



Red (27%)

Yellow (33%)

Blue (45%)

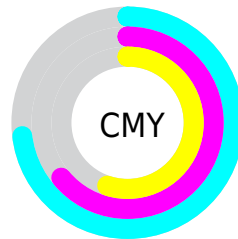


Cyan (41%)

Magenta (21%)

Yellow (0%)

Black (55%)



Cyan (73%)

Magenta (64%)

Yellow (55%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 86.8590, -21.4120, 2.5880 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 86.8590, -21.4120, 2.5880 by changing the saturation by 10% instead.



■ 86.8590, -21.4120,  
2.5880

■ 86.8590, -21.4120,  
2.5880

■ 255.0000, -0.0000,  
-0.0000

■ 63.3320, -21.3660,  
1.7540

■ 137.0870,  
-22.0540, 3.2100

■ 40.0330, -21.9620,  
1.5420

■ 163.2010,  
-22.3750, 3.5210

■ 19.8050, -21.3200,  
0.9200

■ 190.9020,  
-22.9710, 3.3090

■ 3.3230, -7.9790,  
6.9410

■ 218.4290,  
-23.0170, 4.1430

■ 0.0000, 0.0000,  
0.0000

■ 244.2800,  
-15.5880, -3.8440

■ 86.8590, -21.4120,  
2.5880

■ 86.8590, -21.4120,  
2.5880

■ 79.7490, -26.9140,  
3.1820

■ 93.6700, -16.5060,  
1.7820

■ 72.9380, -31.8200,  
3.9880

■ 100.7800,  
-11.0040, 1.1880

■ 65.8280, -37.3220,  
4.5820

■ 107.5910, -6.0980,  
0.3820

■ 59.6040, -42.5030,  
4.8650

■ 114.1140, -0.3210,  
0.3110

■ 52.7930, -47.4090,  
5.6710

■ 120.9250, 4.5850,  
-0.4950

■ 45.9820, -52.3150,  
6.4770

■ 128.0350, 10.0870,  
-1.0890

■ 134.8460, 14.9930,  
-1.8950

■ 141.9560, 20.4950,

-2.4890

■ 148.7670, 25.4010,  
-3.2950

# Harmonies

## Analogous

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



83.5650, -29.5720, -3.7160



86.8590, -21.4120, 2.5880



89.9640, -8.3460, 8.0860

# Triad

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



86.8590, -21.4120, 2.5880



90.6500, 21.7770, 7.3210



85.0280, -6.3710, -11.1950

# Complementary

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



86.8590, -21.4120, 2.5880



96.1410, 21.4120, -2.5880

# 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.



87.0250, 6.8790, -9.0330



86.8590, -21.4120, 2.5880



89.6620, 21.5030, 1.2710

# Square

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



86.8590, -21.4120, 2.5880



90.6480, 16.0910, 11.2510



88.4500, 16.0480, -4.4960



83.3840, -19.1170, -11.4770



# Rectangle

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



86.8590, -21.4120, 2.5880



90.3350, 0.9150, 10.9550



88.4500, 16.0480, -4.4960



86.3660, -1.5110, -11.1670

# Sweetspot

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



86.8590, -21.4120, 2.5880



139.3350, -8.2530, 0.8910



98.2110, -20.3080, -17.4280



70.1890, -4.9060, 0.8060



204.0000, -0.0000, -0.0000



77.0000, -0.0000, -0.0000



# Same Dimension

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



86.8590, -21.4120, 2.5880



106.4540, -33.3330, 3.8750



73.3580, -15.0870, 14.6170



55.4450, -2.7510, 0.2970



49.1280, -55.6620, 6.5620



100.1140, -113.8000, 13.9440



# Inverse Universe

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



84.6750, 20.6290, 17.1170



102.9310, 31.9520, 26.6720



109.6420, 15.0870, -14.6170



55.1360, 2.6130, 2.2050



43.3180, 53.4520, 44.5240

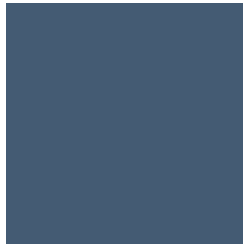


88.6580, 109.8380, 90.9420



# Previews

## White Background



This preview shows how the YIQ color 86.8590, -21.4120, 2.5880 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

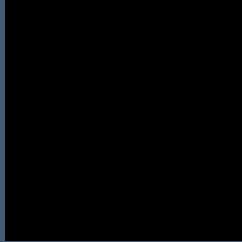
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

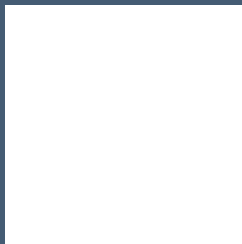
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**YIQ 86.8590, -21.4120, 2.5880**

## **Background**



This preview shows how black text looks on a background with the YIQ color 86.8590, -21.4120, 2.5880.



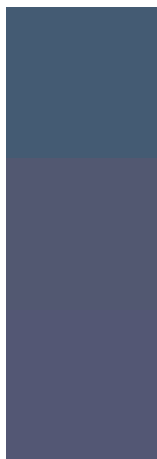
This preview shows how white text looks on a background with the YIQ color 86.8590, -21.4120,



# 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

86.8590, -21.4120, 2.5880

### Protanopia

89.0560, -11.6010, 6.5030

### Deuteranopia

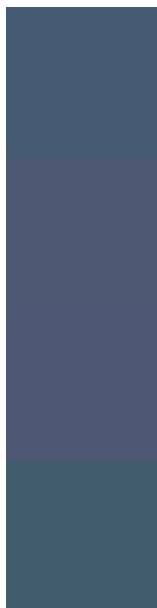
89.1100, -11.6930, 8.1710



## Tritanopia

85.2410, -19.8520, -3.6600

# Trichromacy



## Original Color

86.8590, -21.4120, 2.5880

## Protanomaly

88.2620, -15.1770, 5.2310

## Deuteranomaly

88.2020, -14.9480, 6.5880

## Tritanomaly

85.5230, -20.5860, -1.3700

# Monochromacy



## Original Color

86.8590, -21.4120, 2.5880

## Achromatopsia

87.0000, -0.0000, -0.0000

## Achromatomaly

86.6340, -7.6570, 1.1030

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 86.8590, -21.4120, 2.5880 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(68, 91, 115)` looks like.

```
.text, #text, p{  
    color:rgb(68, 91, 115)  
}
```

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(68, 91, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 91, 115) }
```

## Border

The CSS property to change the border of an element to YIQ 86.8590, -21.4120, 2.5880 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(68, 91, 115) }
```



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

```
.border{ border-color:rgb(68, 91, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(68, 91, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 91, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 91, 115);  
box-shadow:4px 4px 4px 4px rgb(68, 91,  
115) }
```

# Background

The CSS property to change the background color of an element to YIQ 86.8590, -21.4120, 2.5880 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 91, 115) }
```

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

```
.background{ background-color: rgb(68, 91,  
115) }
```

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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