

# Converting Colors

YIQ(84.9970, -47.5030, 18.3930)

Have a look what the booklet for  
YIQ(84.9970, -47.5030, 18.3930)  
contains.

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# Color

**YIQ(84.9970, -47.5030,  
18.3930)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3356A9
RGB	51, 86, 169
RGB Percent	20%, 34%, 66%
CMY	0.8000, 0.6627, 0.3375
CMYK	0.70, 0.49, 0.00, 0.34
HSL	222°, 54%, 43%
HSV	222°, 70%, 66%
XYZ	11.8492, 10.2237, 38.8532
YIQ	84.9970, -47.5030, 18.3930

# Conversions

## Conversions Part 2

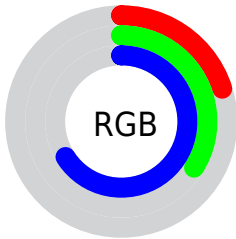
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	51, 78, 169
Decimal	3364521
CIE <sub>Lab</sub>	38.24, 15.98, -48.34
CIE <sub>LCh</sub>	38, 50.912, 288.293
Yxy	10.2237, 0.1945, 0.1678
Android (android.graphics.Color)	4281554601 (0xFF3356A9)
YUV	84.9970, 41.4135, -29.8154
Hunter-Lab	31.9745, 10.1935, -49.6629

# Details

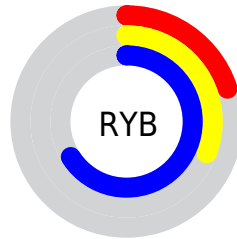
The YIQ color **84.9970, -47.5030, 18.3930** is a dark color, and the websafe version is hex **3366CC**. A complement of this color would be **135.0030, 47.5030, -18.3930**, and the grayscale version is **85.0000, -0.0000, 0.0000**.

A 20% lighter version of the original color is **138.0840, -43.1940, 22.9020**, and **37.8780, -48.7860, 14.1100** is the 20% darker color. If you saturate the color by 10%, you get **72.8700, -54.3350, 21.0650**, and if you desaturate by 10%, it is **97.1240, -40.6710, 15.7210**.

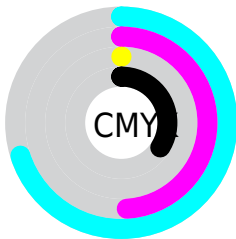
# Distribution



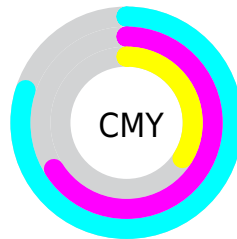
- Red (20%)
- Green (34%)
- Blue (66%)



- Red (20%)
- Yellow (31%)
- Blue (66%)



- Cyan (70%)
- Magenta (49%)
- Yellow (0%)
- Black (34%)



- Cyan (80%)
- Magenta (66%)
- Yellow (34%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 84.9970, -47.5030, 18.3930 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 84.9970, -47.5030, 18.3930 by changing the saturation by 10% instead.



■ 84.9970, -47.5030,  
18.3930

■ 84.9970, -47.5030,  
18.3930

■ 255.0000, -0.0000,  
-0.0000

■ 54.0660, -61.1190,  
11.8490

■ 138.0840,  
-43.1940, 22.9020

■ 37.8780, -48.7860,  
14.1100

■ 165.3230,  
-42.3690, 24.4710

■ 23.8750, -35.5360,  
16.2720

■ 189.6580,  
-33.4270, 16.5970

■ 8.2250, -21.7820,  
20.3140

■ 215.0640,  
-23.2470, 8.3130

■ 6.7770, -14.9490,  
12.1150

■ 240.1710,  
-13.6630, -0.1830

■ 3.0950, -7.3370,  
6.3190

■ 0.0000, 0.0000,

0.0000

■ 84.9970, -47.5030,  
18.3930

■ 84.9970, -47.5030,  
18.3930

■ 72.8700, -54.3350,  
21.0650

■ 97.1240, -40.6710,  
15.7210

■ 60.7430, -61.1670,  
23.7370

■ 109.2510,  
-33.8390, 13.0490

■ 48.6160, -67.9990,  
26.4090

■ 121.3780,  
-27.0070, 10.3770

■ 133.5050,  
-20.1750, 7.7050

■ 144.7460,  
-13.6640, 5.3440

■ 156.8730, -6.8320,  
2.6720

■ 169.0000, -0.0000,  
-0.0000

■ 181.1270, 6.8320,  
-2.6720

■ 193.2540, 13.6640,  
-5.3440

# Harmonies

## Analogous

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



78.1940, -82.3910, 0.8810



84.9970, -47.5030, 18.3930



92.6360, 8.3380, 36.1300

# Triad

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



84.9970, -47.5030, 18.3930



85.6100, 62.8120, 7.0360



71.6040, -52.8120, -34.0920

# Complementary

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



84.9970, -47.5030, 18.3930



135.0030, 47.5030, -18.3930

# 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.



73.7370, -19.7540, -38.4900



84.9970, -47.5030, 18.3930



84.6120, 50.1620, -17.0220

# Square

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



84.9970, -47.5030, 18.3930



83.9640, 62.7160, 30.8120



81.7670, 24.2600, -32.1880



77.0930, -66.8900, -21.2420



# Rectangle

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



84.9970, -47.5030, 18.3930



88.8580, 34.1960, 41.0760



81.7670, 24.2600, -32.1880



69.4210, -48.0430, -37.9230

# Sweetspot

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



84.9970, -47.5030, 18.3930



186.4620, -18.6160, 6.9840



129.7280, -59.0930, -35.9010



89.8880, -11.1880, 4.5240



237.0000, -0.0000, -0.0000



110.0000, 0.0000, 0.0000



# Same Dimension

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



84.9970, -47.5030, 18.3930



88.2610, -74.1890, 28.4590



71.6280, -23.5740, 41.7860



78.0860, -3.1180, 1.4420



42.7000, -59.6080, 23.0160



5.8020, -8.0700, 3.0820



# Inverse Universe

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



90.2720, 59.0930, 35.9010



96.2860, 92.0090, 56.1130



148.3720, 23.5740, -41.7860



78.6200, 4.1260, 2.3180



49.2680, 74.0840, 45.0600



6.6640, 9.9940, 6.1060



# Previews

## White Background



This preview shows how the YIQ color 84.9970, -47.5030, 18.3930 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 × Fail



# Black Background



This preview shows how the YIQ color 84.9970, -47.5030, 18.3930 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 84.9970, -47.5030, 18.3930

## Background



This preview shows how black text looks on a background with the YIQ color 84.9970, -47.5030, 18.3930.



This preview shows how white text looks on a background with the YIQ color 84.9970, -47.5030,



# 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

84.9970, -47.5030, 18.3930

### Protanopia

83.6050, -52.2710, 16.6970

### Deuteranopia

71.7710, -76.7060, 2.4780



## Tritanopia

70.8980, -61.8470, -19.0230

# Trichromacy



## Original Color

84.9970, -47.5030, 18.3930

## Protanomaly

84.5020, -50.4830, 17.3330

## Deuteranomaly

76.6200, -65.7950, 8.4850

## Tritanomaly

76.2660, -56.5310, -5.2270

# Monochromacy



## Original Color

84.9970, -47.5030, 18.3930

## Achromatopsia

85.0000, -0.0000, 0.0000

## Achromatomaly

84.9460, -17.1030, 7.0970

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 84.9970, -47.5030, 18.3930 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(51, 86, 169)` looks like.

```
.text, #text, p{  
    color:rgb(51, 86, 169)  
}
```

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(51, 86, 169) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 86, 169) }
```

## Border

The CSS property to change the border of an element to YIQ 84.9970, -47.5030, 18.3930 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(51, 86, 169) }
```



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

```
.border{ border-color:rgb(51, 86, 169) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 86, 169)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 86, 169); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 86, 169);  
box-shadow:4px 4px 4px 4px rgb(51, 86,  
169) }
```

# Background

The CSS property to change the background color of an element to YIQ 84.9970, -47.5030, 18.3930 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 86, 169) }
```

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

```
.background{ background-color: rgb(51, 86,  
169) }
```

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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