

# Converting Colors

YIQ(50.9710, -44.6140, 15.5940)

Have a look what the booklet for  
YIQ(50.9710, -44.6140, 15.5940)  
contains.

<b>YIQ(50.9710, -44.6140, 15.5940)</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(50.9710, -44.6140,  
15.5940)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	12357F
RGB	18, 53, 127
RGB Percent	7%, 21%, 50%
CMY	0.9294, 0.7921, 0.5022
CMYK	0.86, 0.58, 0.00, 0.50
HSL	221°, 75%, 28%
HSV	221°, 86%, 50%
XYZ	5.3499, 4.2068, 20.5883
YIQ	50.9710, -44.6140, 15.5940

# Conversions

## Conversions Part 2

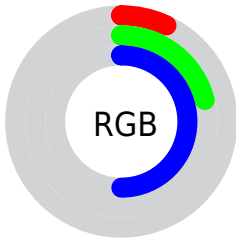
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	18, 44, 127
Decimal	1193343
CIE Lab	24.34, 17.72, -45.24
CIE LCh	24, 48.584, 291.396
Yxy	4.2068, 0.1775, 0.1396
Android (android.graphics.Color)	4279383423 (0xFF12357F)
YUV	50.9710, 37.4823, -28.9156
Hunter-Lab	20.5105, 10.6662, -45.1574

# Details

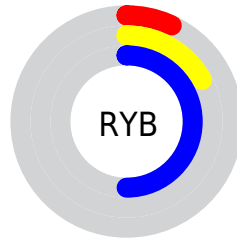
The YIQ color **50.9710, -44.6140, 15.5940** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **94.0290, 44.6140, -15.5940**, and the grayscale version is **51.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **103.5640, -35.8580, 22.1100**, and **15.2350, -27.7420, 18.1940** is the 20% darker color. If you saturate the color by 10%, you get **41.8010, -49.8870, 17.5450**, and if you desaturate by 10%, it is **60.1410, -39.3410, 13.6430**.

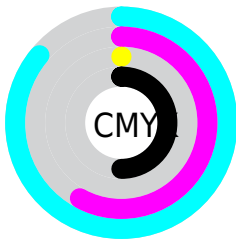
# Distribution



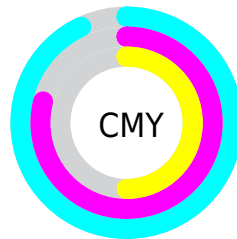
- Red (7%)
- Green (21%)
- Blue (50%)



- Red (7%)
- Yellow (17%)
- Blue (50%)



- Cyan (86%)
- Magenta (58%)
- Yellow (0%)
- Black (50%)



- Cyan (93%)
- Magenta (79%)
- Yellow (50%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 50.9710, -44.6140, 15.5940 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 50.9710, -44.6140, 15.5940 by changing the saturation by 10% instead.



■ 50.9710, -44.6140,  
15.5940

■ 50.9710, -44.6140,  
15.5940

■ 255.0000, -0.0000,  
-0.0000

■ 30.2980, -41.2210,  
14.6750

■ 103.4500,  
-35.5370, 21.7990

■ 15.2350, -27.7420,  
18.1940

■ 129.6890,  
-34.7120, 23.3680

■ 8.9770, -18.3880,  
13.8680

■ 156.6290,  
-34.4830, 24.7250

■ 4.7080, -10.5010,  
8.5950

■ 182.3150,  
-30.7230, 22.6610

■ 0.2280, -0.6420,  
0.6220

■ 206.5360,  
-21.4600, 14.4760

■ 0.0000, 0.0000,  
0.0000

■ 232.5290,

-11.5550, 5.6690

254.7010, -0.5960,  
-0.2120

■ 50.9710, -44.6140,  
15.5940

■ 50.9710, -44.6140,  
15.5940

■ 41.8010, -49.8870,  
17.5450

■ 60.1410, -39.3410,  
13.6430

■ 38.5450, -52.0420,  
18.0540

■ 68.4250, -34.3890,  
12.0030

■ 77.5950, -29.1160,  
10.0520

■ 86.1780, -23.5680,  
8.6240

■ 95.0490, -18.8910,  
6.4610

■ 104.2190,  
-13.6180, 4.5100

■ 112.8020, -8.0700,  
3.0820

■ 121.9720, -2.7970,  
1.1310

■ 130.8430, 1.8800,  
-1.0320

# Harmonies

## Analogous

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



53.6760, -60.2010, 6.2230



50.9710, -44.6140, 15.5940



57.5500, 11.4560, 34.6880

# Triad

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



50.9710, -44.6140, 15.5940



51.6520, 53.8260, 4.6900



47.5080, -34.5660, -23.3500

# Complementary

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



50.9710, -44.6140, 15.5940



94.0290, 44.6140, -15.5940

# 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.



41.5460, -20.5340, -35.3660



50.9710, -44.6140, 15.5940



55.3300, 33.7010, -10.5470

# Square

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



50.9710, -44.6140, 15.5940



43.5660, 58.0850, 32.1410



51.9200, 11.0080, -23.2960



52.4270, -47.0390, -12.0550



# Rectangle

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



50.9710, -44.6140, 15.5940



49.8690, 35.6630, 42.0230



51.9200, 11.0080, -23.2960



46.0260, -30.3930, -27.3930

# Sweetspot

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



50.9710, -44.6140, 15.5940



136.1200, -17.6530, 6.0510



90.3050, -53.4080, -34.3040



65.6600, -10.5460, 3.9020



212.0000, -0.0000, -0.0000



84.0000, -0.0000, -0.0000



# Same Dimension

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



50.9710, -44.6140, 15.5940



50.0350, -67.8610, 23.9070



35.8080, -24.2610, 37.7150



58.9720, -2.7970, 1.1310



38.6590, -52.3630, 18.3650



0.0000, 0.0000, 0.0000



# Inverse Universe

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



54.5810, 53.7290, 33.9930



55.6760, 81.9230, 51.6750



109.1920, 24.2610, -37.7150



59.3210, 3.5300, 2.1060



42.9460, 63.1270, 39.8870



0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the YIQ color 50.9710, -44.6140, 15.5940 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



This preview shows how the YIQ color 50.9710, -44.6140, 15.5940 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

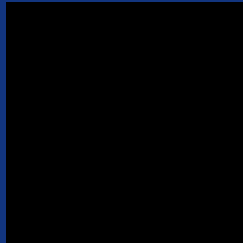
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 50.9710, -44.6140, 15.5940

## Background



This preview shows how black text looks on a background with the YIQ color 50.9710, -44.6140, 15.5940.



This preview shows how white text looks on a background with the YIQ color 50.9710, -44.6140,



# 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

50.9710, -44.6140, 15.5940

### Protanopia

46.4380, -53.5990, 7.7210

### Deuteranopia

46.8480, -49.2420, 0.3420



## Tritanopia

45.9070, -39.7030, -12.8470

# Trichromacy



## Original Color

50.9710, -44.6140, 15.5940

## Protanomaly

48.2860, -50.1150, 10.6610

## Deuteranomaly

48.2060, -47.1340, 6.1940

## Tritanomaly

48.0460, -41.1720, -2.7400

# Monochromacy



## Original Color

50.9710, -44.6140, 15.5940

## Achromatopsia

51.0000, -0.0000, -0.0000

## Achromatomaly

51.1910, -16.4150, 5.6410

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 50.9710, -44.6140, 15.5940 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(18, 53, 127)` looks like.

```
.text, #text, p{  
    color:rgb(18, 53, 127)  
}
```

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(18, 53, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 53, 127) }
```

## Border

The CSS property to change the border of an element to YIQ 50.9710, -44.6140, 15.5940 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(18, 53, 127) }
```



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

```
.border{ border-color:rgb(18, 53, 127) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 53, 127)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 53, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 53, 127);  
box-shadow:4px 4px 4px 4px rgb(18, 53,  
127) }
```

# Background

The CSS property to change the background color of an element to YIQ 50.9710, -44.6140, 15.5940 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 53, 127) }
```

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

```
.background{ background-color: rgb(18, 53,  
127) }
```

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