

# Converting Colors

YIQ(55.6840, -87.9010, 45.6910)

Have a look what the booklet for  
YIQ(55.6840, -87.9010, 45.6910)  
contains.

<b>YIQ(55.6840, -87.9010, 45.6910)</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(55.6840, -87.9010,  
45.6910)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	0032E7
RGB	0, 50, 231
RGB Percent	0%, 20%, 91%
CMY	0.9998, 0.8039, 0.0946
CMYK	1.00, 0.78, 0.00, 0.09
HSL	227°, 100%, 45%
HSV	227°, 100%, 91%
XYZ	15.5477, 8.0455, 76.2425
YIQ	55.6840, -87.9010, 45.6910

# Conversions

## Conversions Part 2

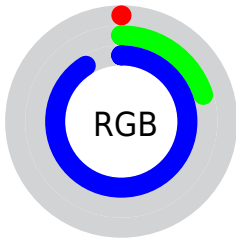
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	0, 41, 231
Decimal	13031
CIE Lab	34.08, 57.60, -91.26
CIE LCh	34, 107.916, 302.259
Yxy	8.0455, 0.1557, 0.0806
Android (android.graphics.Color)	4278203111 (0xFF0032E7)
YUV	55.6840, 86.4308, -48.8349
Hunter-Lab	28.3646, 48.2044, -139.5128

# Details

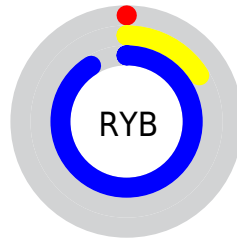
The YIQ color **55.6840, -87.9010, 45.6910** is a dark color, and the websafe version is hex **3333FF**. The color can be described as dark washed blue. A complement of this color would be **175.3160, 87.9010, -45.6910**, and the grayscale version is **55.0000, 0.0000, 0.0000**.

A 20% lighter version of the original color is **120.3720, -42.9240, 51.0600**, and **21.5970, -56.6790, 52.5450** is the 20% darker color. If you saturate the color by 10%, you get **55.6840, -87.9010, 45.6910**, and if you desaturate by 10%, it is **73.1270, -79.1430, 41.1530**.

# Distribution



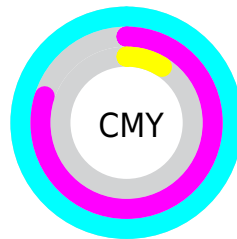
- Red (0%)
- Green (20%)
- Blue (91%)



- Red (0%)
- Yellow (16%)
- Blue (91%)



- Cyan (100%)
- Magenta (78%)
- Yellow (0%)
- Black (9%)



- Cyan (100%)
- Magenta (80%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 55.6840, -87.9010, 45.6910 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 55.6840, -87.9010, 45.6910 by changing the saturation by 10% instead.



■ 55.6840, -87.9010,  
45.6910

■ 55.6840, -87.9010,  
45.6910

■ 255.0000, -0.0000,  
-0.0000

■ 38.2900, -71.9920,  
49.2240

■ 120.3720,  
-42.9240, 51.0600

■ 21.5970, -56.6790,  
52.5450

■ 146.0990,  
-29.2140, 44.8820

■ 16.6440, -46.8660,  
45.4060

■ 170.9290,  
-17.2920, 38.0680

■ 13.5660, -38.1990,  
37.0090

■ 196.3460, -5.6450,  
30.7310

■ 18.8200, -33.7030,  
21.6010

■ 222.3500, 5.7270,  
22.8710

■ 12.5620, -24.3490,  
17.2750

■ 243.2600, 5.5000,

■ 6.8910, -15.2700,

10.4600

12.4260

■ 3.3230, -7.9790,  
6.9410

■ 0.0000, 0.0000,  
0.0000

■ 55.6840, -87.9010,  
45.6910

■ 73.1270, -79.1430,  
41.1530

■ 90.5700, -70.3850,  
36.6150

■ 108.0130,  
-61.6270, 32.0770

■ 125.4560,  
-52.8690, 27.5390

■ 142.8990,  
-44.1110, 23.0010

■ 161.2280,  
-35.0320, 18.1520

■ 178.6710,  
-26.2740, 13.6140

■ 196.1140,  
-17.5160, 9.0760

■ 213.5570, -8.7580,  
4.5380

# Harmonies

## Analogous

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



84.8350, -107.9800, 29.6200



55.6840, -87.9010, 45.6910



71.6900, 54.0860, 88.1180

# Triad

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



55.6840, -87.9010, 45.6910



64.2650, 86.1930, 18.3290



72.4990, -56.7100, -29.5260

# Complementary

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



55.6840, -87.9010, 45.6910



175.3160, 87.9010, -45.6910

# 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.



61.0480, -28.6000, -54.3920



55.6840, -87.9010, 45.6910



74.7670, 33.4280, -22.1240

# Square

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



55.6840, -87.9010, 45.6910



60.3980, 120.3920, 42.8240



57.5260, -26.9500, -51.2540



83.5910, -85.1870, -3.5150



# Rectangle

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



55.6840, -87.9010, 45.6910



74.5750, 90.5380, 77.2740



57.5260, -26.9500, -51.2540



68.3780, -46.4840, -38.6440

# Sweetspot

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



55.6840, -87.9010, 45.6910



197.0560, -28.7960, 15.2680



156.2310, -121.6260, -64.5220



93.1140, -17.5160, 9.0760



0.0000, 0.0000, 0.0000



128.0000, -0.0000, -0.0000



# Same Dimension

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



55.6840, -87.9010, 45.6910



61.3550, -96.9800, 50.5400



45.7690, -35.4110, 85.6210



106.1290, -4.6770, 2.1630



43.2990, -68.1840, 35.2720



12.2710, -19.3960, 10.1080



# Inverse Universe

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



74.7690, 121.6260, 64.5220



82.5150, 134.3250, 71.1650



184.9320, 34.8150, -85.8330



106.9300, 6.1890, 3.4770



57.9670, 94.1650, 50.0770



16.5030, 26.8650, 14.2330



# Previews

## White Background



This preview shows how the YIQ color 55.6840, -87.9010, 45.6910 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

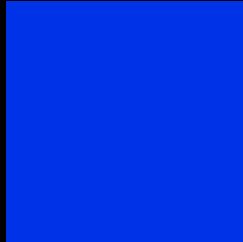
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



This preview shows how the YIQ color 55.6840, -87.9010, 45.6910 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

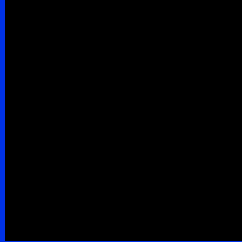
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 55.6840, -87.9010, 45.6910

## Background



This preview shows how black text looks on a background with the YIQ color 55.6840, -87.9010, 45.6910.



This preview shows how white text looks on a background with the YIQ color 55.6840, -87.9010,



# 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

55.6840, -87.9010, 45.6910

### Protanopia

63.6670, -73.1770, 10.1110

### Deuteranopia

63.7520, -66.5270, -0.2790



## Tritanopia

62.8450, -54.3280, -17.6240

# Trichromacy



## Original Color

55.6840, -87.9010, 45.6910

## Protanomaly

60.6470, -78.4520, 23.1160

## Deuteranomaly

60.5840, -74.1410, 16.5710

## Tritanomaly

60.3270, -66.5280, 5.2480

# Monochromacy



## Original Color

55.6840, -87.9010, 45.6910

## Achromatopsia

56.0000, -0.0000, 0.0000

## Achromatomaly

56.1420, -31.9140, 16.7100

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 55.6840, -87.9010, 45.6910 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(0, 50, 231)` looks like.

```
.text, #text, p{  
    color:rgb(0, 50, 231)  
}
```

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(0, 50, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 50, 231) }
```

## Border

The CSS property to change the border of an element to YIQ 55.6840, -87.9010, 45.6910 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(0, 50, 231) }
```



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

```
.border{ border-color:rgb(0, 50, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 50, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 50, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 50, 231);  
box-shadow:4px 4px 4px 4px rgb(0, 50, 231)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 55.6840, -87.9010, 45.6910 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 50, 231) }
```

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

```
.background{ background-color: rgb(0, 50,  
231) }
```

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