

# Converting Colors

YIQ(158.7770, -86.0110,  
-10.6110)

Have a look what the booklet for  
YIQ(158.7770, -86.0110, -10.6110)  
contains.

<b>YIQ(158.7770, -86.0110, -10.6110)</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(158.7770, -86.0110,  
-10.6110)**

# Conversions

## Conversions Part 1

Format	Color
Hex	46BDEC
RGB	70, 189, 236
RGB Percent	27%, 74%, 93%
CMY	0.7257, 0.2586, 0.0749
CMYK	0.70, 0.20, 0.00, 0.07
HSL	197°, 81%, 60%
HSV	197°, 70%, 93%
XYZ	35.8558, 43.7670, 85.8416
YIQ	158.7770, -86.0110, -10.6110

# Conversions

## Conversions Part 2

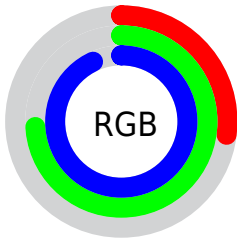
Format	Color
<a href="#">RYB</a>	<a href="#">70, 139, 236</a>
Decimal	<a href="#">4636140</a>
CIELab	<a href="#">72.07, -18.34, -32.91</a>
CIELCh	<a href="#">72, 37.678, 240.867</a>
Yxy	<a href="#">43.7670, 0.2167, 0.2645</a>
Android (android.graphics.Color)	<a href="#">4282826220</a> ( <a href="#">0xFF46BDEC</a> )
YUV	<a href="#">158.7770, 38.0709, -77.8574</a>
Hunter-Lab	<a href="#">66.1566, -19.0299, -30.6222</a>

# Details

The YIQ color **158.7770, -86.0110, -10.6110** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted azure. A complement of this color would be **147.2230, 86.0110, 10.6110**, and the grayscale version is **158.0000, -0.0000, 0.0000**.

A 20% lighter version of the original color is **213.8480, -67.5780, -19.7860**, and **100.3520, -95.1800, -15.1480** is the 20% darker color. If you saturate the color by 10%, you get **147.4920, -98.3900, -12.0380**, and if you desaturate by 10%, it is **170.0620, -73.6320, -9.1840**.

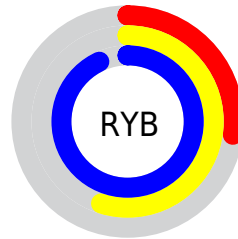
# Distribution



Red (27%)

Green (74%)

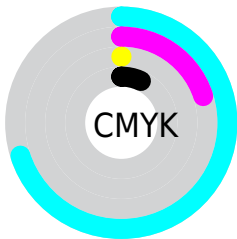
Blue (93%)



Red (27%)

Yellow (55%)

Blue (93%)

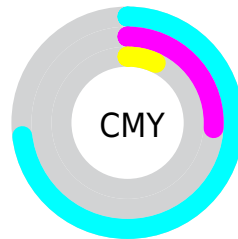


Cyan (70%)

Magenta (20%)

Yellow (0%)

Black (7%)



Cyan (73%)

Magenta (26%)

Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 158.7770, -86.0110, -10.6110 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 158.7770, -86.0110, -10.6110 by changing the saturation by 10% instead.



■ 158.7770,  
-86.0110, -10.6110

■ 158.7770,  
-86.0110, -10.6110

■ 255.0000, -0.0000,  
-0.0000

■ 124.1880,  
-100.5900, -16.2220

■ 213.8480,  
-67.5780, -19.7860

■ 100.3520,  
-95.1800, -15.1480

■ 228.9870,  
-51.8520, -18.4440

■ 82.0120, -79.3630,  
-9.9470

■ 238.2560,  
-33.3760, -11.8720

■ 64.9600, -64.4170,  
-5.4810

■ 247.2260,  
-15.4960, -5.5120

■ 48.0220, -49.7920,  
-0.7040

■ 32.2580, -35.7170,  
3.0270

■ 16.1350, -22.0090,

7.9030

■ 4.8220, -10.8220,  
8.9060

■ 0.5700, -1.6050,  
1.5550

■ 158.7770,  
-86.0110, -10.6110

■ 158.7770,  
-86.0110, -10.6110

■ 147.4920,  
-98.3900, -12.0380

■ 170.0620,  
-73.6320, -9.1840

■ 137.0930,  
-110.4480, -13.7760

■ 180.4610,  
-61.5740, -7.4460

■ 126.1070,  
-122.2310, -14.9910

■ 191.7460,  
-49.1950, -6.0190

■ 202.7320,  
-37.4120, -4.8040

■ 213.4300,  
-24.7580, -2.8540

■ 224.4160,  
-12.9750, -1.6390

■ 235.7010, -0.5960,  
-0.2120

■ 245.2030, 9.6740,  
0.8900

■ 249.3120, 7.7490,  
-2.7710

# Harmonies

## Analogous

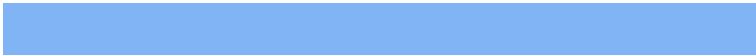
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



148.9950, -99.0290, -27.9970



158.7770, -86.0110, -10.6110



172.1610, -51.2610, 9.4030

# Triad

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



158.7770, -86.0110, -10.6110



180.2870, 45.5690, 27.6890



170.5560, 9.0370, -26.1230

# Complementary

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



158.7770, -86.0110, -10.6110



147.2230, 86.0110, 10.6110

# 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.



174.4240, 36.1320, -16.0600



158.7770, -86.0110, -10.6110



178.4710, 56.2540, 15.7580

# Square

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



158.7770, -86.0110, -10.6110



181.7050, 21.0850, 30.8850



176.8920, 52.9100, -0.7380



165.0710, -26.2660, -30.6020



# Rectangle

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



158.7770, -86.0110, -10.6110



178.0720, -25.7250, 20.1870



176.8920, 52.9100, -0.7380



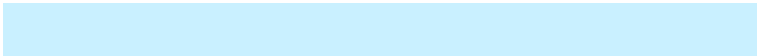
171.8130, 18.6190, -23.5650

# Sweetspot

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



158.7770, -86.0110, -10.6110



230.0490, -28.0590, -3.6030



172.4580, -59.7740, -73.1340



113.1490, -16.5970, -2.0770



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.



158.7770, -86.0110, -10.6110



155.7940, -111.0440, -13.9880



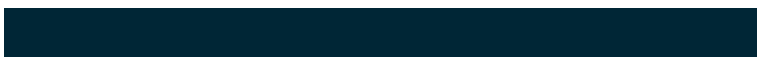
111.8170, -64.0110, 31.2290



111.9500, -5.7310, -0.7630



96.9440, -93.8510, -11.6990



28.4620, -27.7840, -3.0800



# Inverse Universe

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



133.2000, 60.7370, 72.2010



122.5420, 78.1100, 93.2620



194.1830, 64.0110, -31.2290



110.2010, 3.9880, 4.8200



68.9390, 66.1460, 78.8020

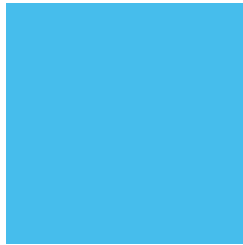


20.4780, 19.9860, 23.2660



# Previews

## White Background



This preview shows how the YIQ color 158.7770, -86.0110, -10.6110 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

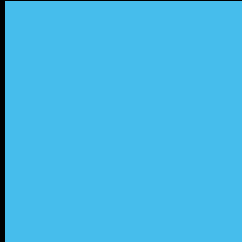
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the YIQ color 158.7770, -86.0110, -10.6110 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

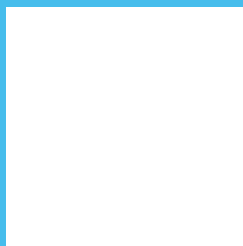
Any Text WCAG AAA ✓ Pass

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

# YIQ 158.7770, -86.0110, -10.6110 Background



This preview shows how black text looks on a background with the YIQ color 158.7770, -86.0110, -10.6110.



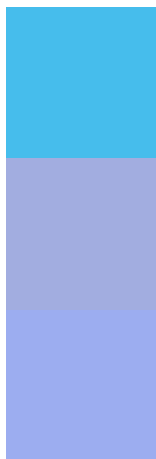
This preview shows how white text looks on a background with the YIQ color 158.7770, -86.0110, -10.6110.

-10.6110.

# 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

158.7770, -86.0110, -10.6110

### Protanopia

175.5250, -22.9270, 13.5290

### Deuteranopia

175.5550, -31.6390, 17.2330



## Tritanopia

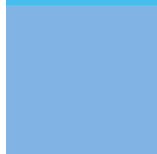
153.2520, -89.4470, -25.4390

# Trichromacy



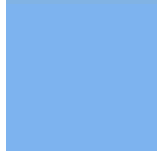
## Original Color

158.7770, -86.0110, -10.6110



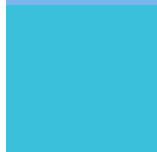
## Protanomaly

169.6360, -45.5290, 4.6390



## Deuteranomaly

169.6940, -51.4440, 7.2120



## Tritanomaly

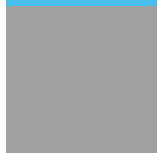
155.3110, -87.9350, -19.7990

# Monochromacy



## Original Color

158.7770, -86.0110, -10.6110



## Achromatopsia

159.0000, -0.0000, 0.0000



## Achromatomaly

159.0810, -31.0850, -3.8290

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 158.7770, -86.0110, -10.6110 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(70, 189, 236)` looks like.

```
.text, #text, p{  
    color:rgb(70, 189, 236)  
}
```

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(70, 189, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 189, 236) }
```

## Border

The CSS property to change the border of an element to YIQ 158.7770, -86.0110, -10.6110 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(70, 189, 236) }
```



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

```
.border{ border-color:rgb(70, 189, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 189, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 189, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 189, 236);  
box-shadow:4px 4px 4px 4px rgb(70, 189,  
236) }
```

# Background

The CSS property to change the background color of an element to YIQ 158.7770, -86.0110, -10.6110 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 189, 236) }
```

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

```
.background{ background-color: rgb(70, 189,  
236) }
```

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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