

# Converting Colors

YIQ(104.6780, -46.4880,  
-16.5360)

Have a look what the booklet for  
YIQ(104.6780, -46.4880, -16.5360)  
contains.

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# Color

**YIQ(104.6780, -46.4880,  
-16.5360)**

# Conversions

## Conversions Part 1

Format	Color
Hex	328080
RGB	50, 128, 128
RGB Percent	20%, 50%, 50%
CMY	0.8041, 0.4979, 0.4982
CMYK	0.61, 0.00, 0.00, 0.50
HSL	180°, 44%, 35%
HSV	180°, 61%, 50%
XYZ	12.9297, 17.6811, 23.1372
YIQ	104.6780, -46.4880, -16.5360

# Conversions

## Conversions Part 2

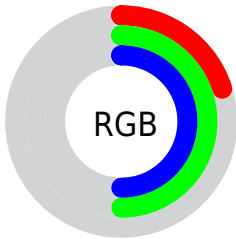
<b>Format</b>	<b>Color</b>
<b>RYB</b>	50, 89, 128
Decimal	3309696
CIELab	49.11, -23.48, -7.09
CIElCh	49, 24.532, 196.809
Yxy	17.6811, 0.2406, 0.3290
Android (android.graphics.Color)	4281499776 (0xFF328080)
YUV	104.6780, 11.4977, -47.9526
Hunter-Lab	42.0489, -18.6982, -3.1898

# Details

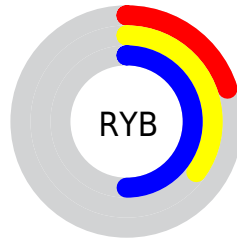
The YIQ color **104.6780, -46.4880, -16.5360** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **73.3220, 46.4880, 16.5360**, and the grayscale version is **105.0000, 0.0000, 0.0000**.

A 20% lighter version of the original color is **158.5750, -44.7000, -15.9000**, and **54.7920, -46.8090, -16.2250** is the 20% darker color. If you saturate the color by 10%, you get **100.7910, -54.2360, -19.2920**, and if you desaturate by 10%, it is **108.5650, -38.7400, -13.7800**.

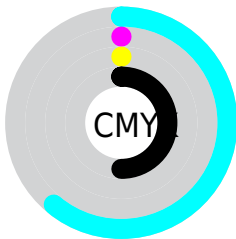
# Distribution



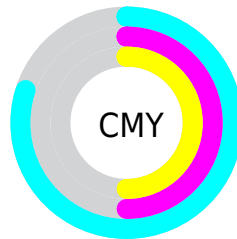
- Red (20%)
- Green (50%)
- Blue (50%)



- Red (20%)
- Yellow (35%)
- Blue (50%)



- Cyan (61%)
- Magenta (0%)
- Yellow (0%)
- Black (50%)



- Cyan (80%)
- Magenta (50%)
- Yellow (50%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 104.6780, -46.4880, -16.5360 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 104.6780, -46.4880, -16.5360 by changing the saturation by 10% instead.



■ 104.6780,  
-46.4880, -16.5360

■ 104.6780,  
-46.4880, -16.5360

■ 255.0000, -0.0000,  
-0.0000

■ 76.6880, -52.4480,  
-18.6560

■ 158.5750,  
-44.7000, -15.9000

■ 54.7920, -46.8090,  
-16.2250

■ 186.1620,  
-44.9750, -16.4230

■ 38.6690, -33.1010,  
-11.3490

■ 214.1620,  
-44.9750, -16.4230

■ 23.9480, -20.5850,  
-6.8970

■ 235.2660,  
-39.3360, -13.9920

■ 2.0690, -4.4480,  
3.5200

■ 243.9370,  
-22.0520, -7.8440

■ 0.0000, 0.0000,  
0.0000

■ 252.6080, -4.7680,

-1.6960

■ 104.6780,  
-46.4880, -16.5360

■ 104.6780,  
-46.4880, -16.5360

■ 100.7910,  
-54.2360, -19.2920

■ 108.5650,  
-38.7400, -13.7800

■ 96.9040, -61.9840,  
-22.0480

■ 112.4520,  
-30.9920, -11.0240

■ 93.3160, -69.1360,  
-24.5920

■ 116.0400,  
-23.8400, -8.4800

■ 89.7280, -76.2880,  
-27.1360

■ 119.9270,  
-16.0920, -5.7240

■ 123.8140, -8.3440,  
-2.9680

■ 127.7010, -0.5960,  
-0.2120

■ 131.5880, 7.1520,  
2.5440

■ 135.1760, 14.3040,  
5.0880

■ 139.0630, 22.0520,  
7.8440

# Harmonies

## Analogous

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



107.9760, -26.9560, -18.0920



104.6780, -46.4880, -16.5360



105.2570, -52.3120, -10.1040

# Triad

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



104.6780, -46.4880, -16.5360



119.4050, 3.8940, 17.5420



115.9690, 27.6480, -5.4720

# Complementary

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



104.6780, -46.4880, -16.5360



73.3220, 46.4880, 16.5360

# 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.



117.3000, 34.3860, 4.5780



104.6780, -46.4880, -16.5360



119.8000, 21.7750, 18.3750

# Square

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



104.6780, -46.4880, -16.5360



116.9830, -18.5250, 10.8430



118.6130, 32.3670, 13.6390



114.0980, 13.8030, -13.3730



# Rectangle

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



104.6780, -46.4880, -16.5360



109.1920, -44.5190, -2.6550



118.6130, 32.3670, 13.6390



116.9310, 30.8110, -2.2210

# Sweetspot

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



104.6780, -46.4880, -16.5360



157.0300, -17.8800, -6.3600



96.0850, -20.8540, -40.5820



78.6180, -10.7280, -3.8160



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.



104.6780, -46.4880, -16.5360



129.8210, -72.1160, -25.6520



82.3720, -36.0380, 3.3380



61.9070, -4.1720, -1.4840



89.6140, -75.9670, -27.4470



0.0000, 0.0000, 0.0000



# Inverse Universe

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



73.3220, 46.4880, 16.5360



81.1790, 72.1160, 25.6520



95.6280, 36.0380, -3.3380



59.0930, 4.1720, 1.4840



38.2720, 76.2880, 27.1360

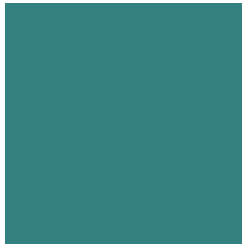


0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the YIQ color 104.6780, -46.4880, -16.5360 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 104.6780, -46.4880, -16.5360 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

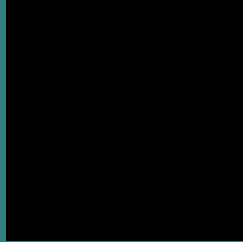
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# YIQ 104.6780, -46.4880, -16.5360 Background



This preview shows how black text looks on a background with the YIQ color 104.6780, -46.4880, -16.5360.



This preview shows how white text looks on a background with the YIQ color 104.6780, -46.4880, -16.5360.

-16.5360.

# 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

104.6780, -46.4880, -16.5360

### Protanopia

116.1680, -0.4130, 1.9790

### Deuteranopia

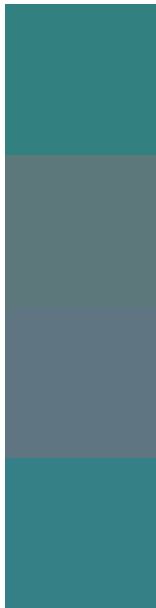
117.1450, -1.6060, 7.0820



## Tritanopia

106.3130, -46.7180, -12.3660

# Trichromacy



## Original Color

104.6780, -46.4880, -16.5360

## Protanomaly

112.2690, -17.0550, -4.7910

## Deuteranomaly

112.4910, -17.5600, -1.1440

## Tritanomaly

105.6720, -46.3510, -13.5110

# Monochromacy



## Original Color

104.6780, -46.4880, -16.5360

## Achromatopsia

105.0000, 0.0000, 0.0000

## Achromatomaly

104.6280, -16.6880, -5.9360

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 104.6780, -46.4880, -16.5360 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(50, 128, 128)` looks like.

```
.text, #text, p{  
    color:rgb(50, 128, 128)  
}
```

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(50, 128, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 128, 128) }
```

## Border

The CSS property to change the border of an element to YIQ 104.6780, -46.4880, -16.5360 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(50, 128, 128) }
```



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

```
.border{ border-color:rgb(50, 128, 128) }
```

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

Here you see how a box with a 4 pixel rgb(50, 128, 128) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 128, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 128, 128);  
box-shadow:4px 4px 4px 4px rgb(50, 128,  
128) }
```

# Background

The CSS property to change the background color of an element to YIQ 104.6780, -46.4880, -16.5360 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 128, 128) }
```

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

```
.background{ background-color: rgb(50, 128,  
128) }
```

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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