

# Converting Colors

YIQ(120.4800, -9.8590, 7.9730)

Have a look what the booklet for  
YIQ(120.4800, -9.8590, 7.9730)  
contains.

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# Color

**YIQ(120.4800, -9.8590,  
7.9730)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	747691
RGB	116, 118, 145
RGB Percent	45%, 46%, 57%
CMY	0.5451, 0.5372, 0.4314
CMYK	0.20, 0.19, 0.00, 0.43
HSL	236°, 12%, 51%
HSV	236°, 20%, 57%
XYZ	18.7911, 18.7142, 29.4037
YIQ	120.4800, -9.8590, 7.9730

# Conversions

## Conversions Part 2

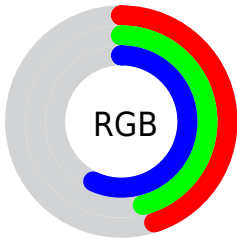
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	116, 118, 145
Decimal	7632529
CIE Lab	50.35, 5.28, -14.88
CIE LCh	50, 15.785, 289.549
Yxy	18.7142, 0.2808, 0.2797
Android (android.graphics.Color)	4285822609 (0xFF747691)
YUV	120.4800, 12.0884, -3.9290
Hunter-Lab	43.2599, 1.8314, -10.0174

# Details

The YIQ color  $120.4800, -9.8590, 7.9730$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $140.5200, 9.8590, -7.9730$ , and the grayscale version is  $120.0000, -0.0000, -0.0000$ .

A 20% lighter version of the original color is  $172.7080, -10.5010, 8.5950$ , and  $71.9530, -9.8130, 7.1390$  is the 20% darker color. If you saturate the color by 10%, you get  $108.6630, -14.6280, 11.8040$ , and if you desaturate by 10%, it is  $133.1830, -4.7690, 3.8310$ .

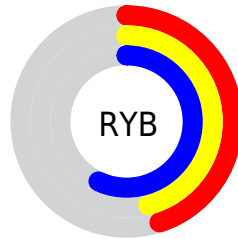
# Distribution



Red (45%)

Green (46%)

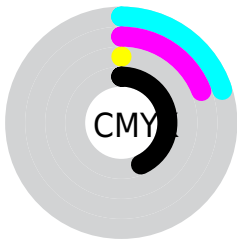
Blue (57%)



Red (45%)

Yellow (46%)

Blue (57%)

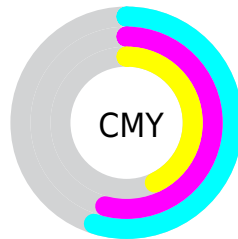


Cyan (20%)

Magenta (19%)

Yellow (0%)

Black (43%)



Cyan (55%)

Magenta (54%)

Yellow (43%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 120.4800, -9.8590, 7.9730 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 120.4800, -9.8590, 7.9730 by changing the saturation by 10% instead.



■ 120.4800, -9.8590,  
7.9730

■ 120.4800, -9.8590,  
7.9730

■ 255.0000, -0.0000,  
-0.0000

■ 95.3660, -9.5380,  
7.6620

■ 172.7080,  
-10.5010, 8.5950

■ 71.8390, -9.4920,  
6.8280

■ 200.1210,  
-10.2260, 9.1180

■ 49.7250, -9.1710,  
6.5170

■ 228.1210,  
-10.2260, 9.1180

■ 28.1980, -9.1250,  
5.6830

■ 253.5160, -1.5130,  
-0.1130

■ 3.1920, -8.9880,  
8.7080

■ 0.0000, 0.0000,  
0.0000

■ 120.4800, -9.8590,  
7.9730

■ 120.4800, -9.8590,  
7.9730

■ 108.6630,  
-14.6280, 11.8040

■ 133.1830, -4.7690,  
3.8310

■ 95.9600, -19.7180,  
15.9460

■ 145.0000, 0.0000,  
-0.0000

■ 84.1430, -24.4870,  
19.7770

■ 157.1160, 5.3650,  
-3.6190

■ 71.4400, -29.5770,  
23.9190

■ 169.5200, 9.8590,  
-7.9730

■ 59.6230, -34.3460,  
27.7500

■ 181.3370, 14.6280,  
-11.8040

■ 46.9200, -39.4360,  
31.8920

■ 194.0400, 19.7180,  
-15.9460

■ 35.1030, -44.2050,  
35.7230

■ 205.8570, 24.4870,  
-19.7770

■ 22.4000, -49.2950,

■ 218.5600, 29.5770,

39.8650

-23.9190

 230.3770, 34.3460,  
-27.7500

# Harmonies

## Analogous

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



117.5600, -22.0080, 2.3760



120.4800, -9.8590, 7.9730



122.3030, 3.9410, 11.1810

# Triad

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



120.4800, -9.8590, 7.9730



120.7870, 22.6490, 2.5290



114.7540, -17.2830, -11.6750

# Complementary

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



120.4800, -9.8590, 7.9730



140.5200, 9.8590, -7.9730

# 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.



116.3980, -4.5370, -11.3930



120.4800, -9.8590, 7.9730



119.7600, 18.1110, -3.3370

# Square

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



120.4800, -9.8590, 7.9730



122.0630, 22.0520, 7.8440



118.5090, 8.3920, -8.9200



113.9580, -26.5450, -9.0170



# Rectangle

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



120.4800, -9.8590, 7.9730



122.1360, 11.7810, 12.2690



118.5090, 8.3920, -8.9200



115.7930, -13.0190, -11.8590

# Sweetspot

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



120.4800, -9.8590, 7.9730



178.9550, -4.1270, 3.2090



136.1010, -16.6420, -6.7700



88.6840, -1.9260, 1.8660



222.0000, -0.0000, 0.0000



94.0000, 0.0000, 0.0000



# Same Dimension

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



120.4800, -9.8590, 7.9730



150.5920, -15.8660, 12.2140



122.8940, -2.1570, 11.5630



65.3850, -2.5220, 1.6540



20.6730, -45.8100, 37.2780



1.4990, -2.8430, 1.9650



# Inverse Universe

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



124.8990, 16.6420, 6.7700



157.2100, 26.1320, 10.9960



138.1060, 2.1570, -11.5630



66.2070, 3.8510, 1.7950



41.3910, 77.5710, 31.4190



2.5060, 4.4470, 2.0070



# Previews

## White Background



This preview shows how the YIQ color 120.4800, -9.8590, 7.9730 looks on a white 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



# Black Background



This preview shows how the YIQ color 120.4800, -9.8590, 7.9730 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

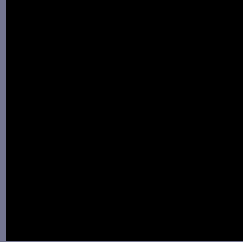
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**YIQ 120.4800, -9.8590, 7.9730**

## **Background**



This preview shows how black text looks on a background with the YIQ color 120.4800, -9.8590, 7.9730.



This preview shows how white text looks on a background with the YIQ color 120.4800, -9.8590,



# 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

120.4800, -9.8590, 7.9730

### Protanopia

120.4690, -11.3260, 7.0260

### Deuteranopia

120.7900, -7.7960, 9.1320



## Tritanopia

119.6340, -7.6570, 1.1030

# Trichromacy



## Original Color

120.4800, -9.8590, 7.9730

## Protanomaly

120.7680, -10.7300, 7.2380

## Deuteranomaly

120.4910, -8.3920, 8.9200

## Tritanomaly

119.9160, -8.3910, 3.3930

# Monochromacy



## Original Color

120.4800, -9.8590, 7.9730

## Achromatopsia

120.0000, -0.0000, -0.0000

## Achromatomaly

120.1400, -3.2100, 3.1100

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 120.4800, -9.8590, 7.9730 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(116, 118, 145)` looks like.

```
.text, #text, p{  
    color:rgb(116, 118, 145)  
}
```

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(116, 118, 145) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 118, 145) }
```

## Border

The CSS property to change the border of an element to YIQ 120.4800, -9.8590, 7.9730 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(116, 118, 145) }
```



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

```
.border{ border-color:rgb(116, 118, 145) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 118, 145)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 118, 145); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 118, 145);  
box-shadow:4px 4px 4px 4px rgb(116, 118,  
145) }
```

# Background

The CSS property to change the background color of an element to YIQ 120.4800, -9.8590, 7.9730 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 118, 145) }
```

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

```
.background{ background-color: rgb(116,  
118, 145) }
```

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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