

# Converting Colors

YIQ(17.8180, -22.1940, 16.7660)

Have a look what the booklet for  
YIQ(17.8180, -22.1940, 16.7660)  
contains.

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# Color

**YIQ(17.8180, -22.1940,  
16.7660)**

# Conversions

## Conversions Part 1

Format	Color
Hex	070D47
RGB	7, 13, 71
RGB Percent	3%, 5%, 28%
CMY	0.9725, 0.9490, 0.7217
CMYK	0.90, 0.82, 0.00, 0.72
HSL	234°, 82%, 15%
HSV	234°, 90%, 28%
XYZ	1.3679, 0.7876, 6.0355
YIQ	17.8180, -22.1940, 16.7660

# Conversions

## Conversions Part 2

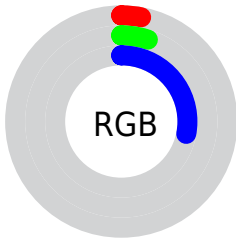
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	7, 12, 71
Decimal	462151
CIE Lab	7.11, 21.99, -36.40
CIE LCh	7, 42.530, 301.133
Yxy	0.7876, 0.1670, 0.0962
Android (android.graphics.Color)	4278652231 (0xFF070D47)
YUV	17.8180, 26.2187, -9.4874
Hunter-Lab	8.8748, 11.9817, -34.1088

# Details

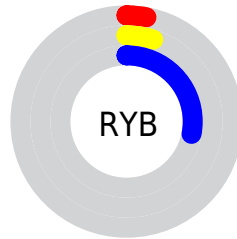
The YIQ color **17.8180, -22.1940, 16.7660** is a dark color, and the websafe version is hex **000033**. A complement of this color would be **60.1820, 22.1940, -16.7660**, and the grayscale version is **18.0000, -0.0000, 0.0000**.

A 20% lighter version of the original color is **64.8020, -16.0970, 21.9110**, and **3.5510, -8.6210, 7.5630** is the 20% darker color. If you saturate the color by 10%, you get **12.2030, -24.7160, 18.4200**, and if you desaturate by 10%, it is **23.4330, -19.6720, 15.1120**.

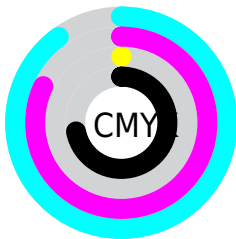
# Distribution



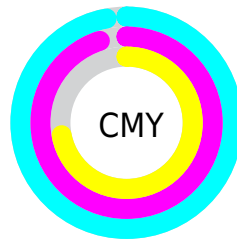
- Red (3%)
- Green (5%)
- Blue (28%)



- Red (3%)
- Yellow (5%)
- Blue (28%)



- Cyan (90%)
- Magenta (82%)
- Yellow (0%)
- Black (72%)



- Cyan (97%)
- Magenta (95%)
- Yellow (72%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 17.8180, -22.1940, 16.7660 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 17.8180, -22.1940, 16.7660 by changing the saturation by 10% instead.



■ 17.8180, -22.1940,  
16.7660

■ 17.8180, -22.1940,  
16.7660

■ 242.9610, 4.9040,  
10.2480

■ 5.4720, -15.4080,  
14.9280

■ 64.8020, -16.0970,  
21.9110

■ 3.5510, -8.6210,  
7.5630

■ 89.0410, -15.2720,  
23.4800

■ 0.0000, 0.0000,  
0.0000

■ 113.9810,  
-15.0430, 24.8370

■ 139.6220,  
-15.4100, 25.9820

■ 166.4480,  
-14.8600, 27.0280

■ 193.6330,

-13.9430, 26.9290

■ 217.8540, -4.6800,  
18.7440

■ 17.8180, -22.1940,  
16.7660

■ 17.8180, -22.1940,  
16.7660

■ 12.2030, -24.7160,  
18.4200

■ 23.4330, -19.6720,  
15.1120

■ 29.6350, -17.4250,  
12.9350

■ 35.2500, -14.9030,  
11.2810

■ 41.4520, -12.6560,  
9.1040

■ 47.0670, -10.1340,  
7.4500

■ 53.5680, -7.2910,  
5.4850

■ 59.1830, -4.7690,  
3.8310

■ 64.7980, -2.2470,  
2.1770

■ 71.0000, -0.0000,  
-0.0000

# Harmonies

## Analogous

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



24.3820, -32.8300, 11.2820



17.8180, -22.1940, 16.7660



21.4330, 15.8590, 26.4750

# Triad

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



17.8180, -22.1940, 16.7660



18.7600, 27.2790, 6.7270



21.8790, -16.1370, -10.4170

# Complementary

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



17.8180, -22.1940, 16.7660



60.1820, 22.1940, -16.7660

# 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.



18.7840, -8.8000, -16.7360



17.8180, -22.1940, 16.7660



20.6990, 10.9130, -5.0470

# Square

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



17.8180, -22.1940, 16.7660



18.8370, 37.5480, 13.3560



17.6100, -8.2500, -15.6900



25.6580, -25.4000, -2.2320



# Rectangle

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



17.8180, -22.1940, 16.7660



22.6700, 28.1930, 23.2090



17.6100, -8.2500, -15.6900



20.3970, -11.9640, -14.4600

# Sweetspot

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



17.8180, -22.1940, 16.7660



71.0240, -8.5750, 6.7290



51.1800, -36.2180, -15.4340



33.8840, -5.3650, 3.6190



173.0000, -0.0000, 0.0000



46.0000, 0.0000, -0.0000



# Same Dimension

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



17.8180, -22.1940, 16.7660



15.7710, -32.0070, 23.9050



22.0700, -5.0480, 25.4160



32.4560, -1.2840, 1.2440



16.5690, -34.2540, 26.0820



38.2050, -78.6420, 59.6140



# Inverse Universe

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



26.8200, 36.2180, 15.4340



28.5340, 51.9430, 22.3030



55.9300, 5.0480, -25.4160



33.1960, 2.3840, 0.8480



30.6270, 56.1150, 23.7870

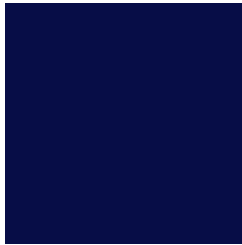


70.2670, 128.5510, 54.6550



# Previews

## White Background



This preview shows how the YIQ color 17.8180, -22.1940, 16.7660 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

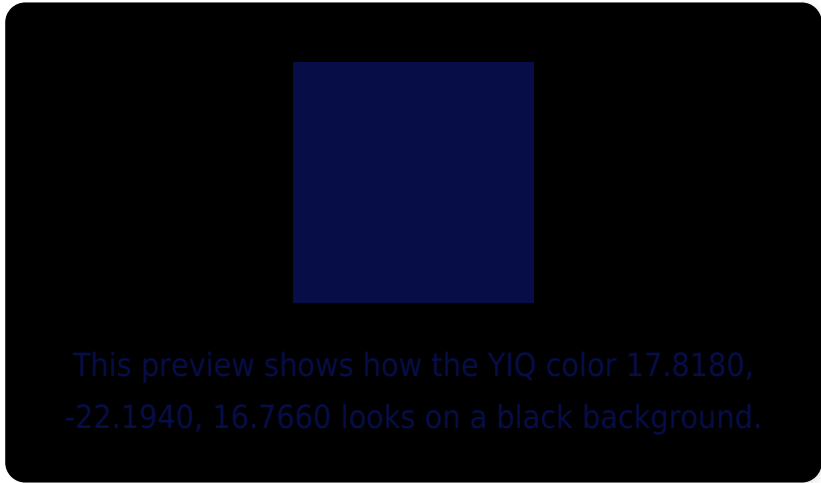
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

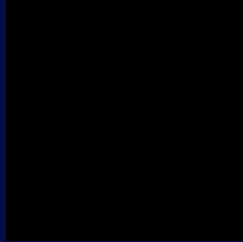
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 17.8180, -22.1940, 16.7660

## Background



This preview shows how black text looks on a background with the YIQ color 17.8180, -22.1940, 16.7660.



This preview shows how white text looks on a background with the YIQ color 17.8180, -22.1940,



# 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

17.8180, -22.1940, 16.7660

### Protanopia

18.9730, -21.7330, 2.8990

### Deuteranopia

19.3490, -20.0360, -0.3240



## Tritanopia

18.4540, -16.1380, -4.8900

# Trichromacy



## Original Color

17.8180, -22.1940, 16.7660

## Protanomaly

18.4340, -21.4130, 8.1150

## Deuteranomaly

19.1520, -20.6790, 5.8250

## Tritanomaly

18.2400, -18.1110, 3.3370

# Monochromacy



## Original Color

17.8180, -22.1940, 16.7660

## Achromatopsia

18.0000, -0.0000, 0.0000

## Achromatomaly

17.7960, -7.9330, 6.1070

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 17.8180, -22.1940, 16.7660 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(7, 13, 71)` looks like.

```
.text, #text, p{  
    color:rgb(7, 13, 71)  
}
```

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(7, 13, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(7, 13, 71) }
```

## Border

The CSS property to change the border of an element to YIQ 17.8180, -22.1940, 16.7660 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(7, 13, 71) }
```



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

```
.border{ border-color:rgb(7, 13, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(7, 13, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(7, 13, 71); -webkit-box-shadow:4px  
4px 4px 4px rgb(7, 13, 71); box-shadow:4px  
4px 4px 4px rgb(7, 13, 71) }
```

# Background

The CSS property to change the background color of an element to YIQ 17.8180, -22.1940, 16.7660 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(7, 13, 71) }
```

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

```
.background{ background-color: rgb(7, 13,  
71) }
```

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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