

# Converting Colors

YIQ(15.8010, 2.8390, 20.1430)

Have a look what the booklet for  
YIQ(15.8010, 2.8390, 20.1430)  
contains.

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# Color

**YIQ(15.8010, 2.8390,  
20.1430)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1F022F
RGB	31, 2, 47
RGB Percent	12%, 1%, 18%
CMY	0.8783, 0.9922, 0.8157
CMYK	0.34, 0.96, 0.00, 0.82
HSL	279°, 92%, 10%
HSV	279°, 96%, 18%
XYZ	1.1004, 0.5400, 2.7349
YIQ	15.8010, 2.8390, 20.1430

# Conversions

## Conversions Part 2

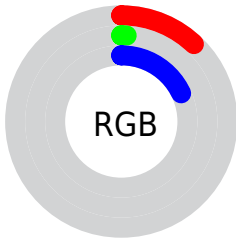
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	31, 2, 47
Decimal	2032175
CIE Lab	4.88, 23.12, -22.58
CIE LCh	5, 32.313, 315.681
Yxy	0.5400, 0.2515, 0.1234
Android (android.graphics.Color)	4280222255 (0xFF1F022F)
YUV	15.8010, 15.3811, 13.3295
Hunter-Lab	7.3487, 13.8677, -16.9216

# Details

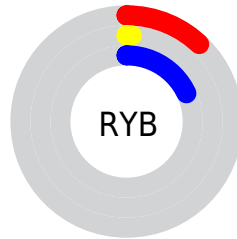
The YIQ color **15.8010, 2.8390, 20.1430** is a dark color, and the websafe version is hex **330033**. A complement of this color would be **33.1990, -2.8390, -20.1430**, and the grayscale version is **16.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **60.9150, 2.5180, 20.4540**, and **0.0000, 0.0000, 0.0000** is the 20% darker color. If you saturate the color by 10%, you get **14.3280, 2.7930, 20.9770**, and if you desaturate by 10%, it is **19.3340, 2.6560, 17.9520**.

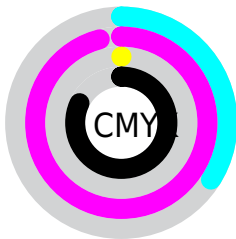
# Distribution



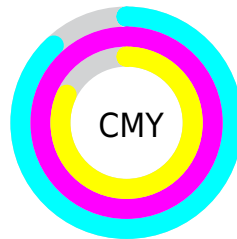
- Red (12%)
- Green (1%)
- Blue (18%)



- Red (12%)
- Yellow (1%)
- Blue (18%)



- Cyan (34%)
- Magenta (96%)
- Yellow (0%)
- Black (82%)



- Cyan (88%)
- Magenta (99%)
- Yellow (82%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 15.8010, 2.8390, 20.1430 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 15.8010, 2.8390, 20.1430 by changing the saturation by 10% instead.



■ 15.8010, 2.8390,  
20.1430

■ 15.8010, 2.8390,  
20.1430

■ 238.5640, 7.7000,  
14.6440

■ 3.5510, -8.6210,  
7.5630

■ 60.9150, 2.5180,  
20.4540

■ 0.0000, 0.0000,  
0.0000

■ 84.7410, 3.0680,  
21.5000

■ 109.5670, 3.6180,  
22.5460


■ 135.0940, 3.5720,  
23.3800


■ 161.5070, 3.8470,  
23.9030

■ 188.3330, 4.3970,

24.9490


 216.4470, 4.0760,  
25.2600


 15.8010, 2.8390,  
20.1430

 15.8010, 2.8390,  
20.1430

 14.3280, 2.7930,  
20.9770

 19.3340, 2.6560,  
17.9520

 21.9810, 2.1520,  
16.0720

 25.5140, 1.9690,  
13.8810

 29.0470, 1.7860,  
11.6900

 31.6940, 1.2820,  
9.8100

■ 35.2270, 1.0990,  
7.6190

■ 38.7600, 0.9160,  
5.4280

■ 41.9940, 0.1370,  
3.0250

■ 44.9400, 0.2290,  
1.3570

# Harmonies

## Analogous

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



15.4170, -22.7430, 10.1930



15.8010, 2.8390, 20.1430



17.5440, 19.6200, 18.8840

# Triad

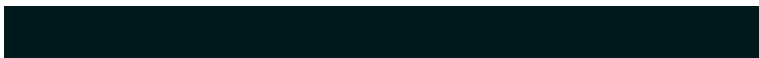
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



15.8010, 2.8390, 20.1430



16.0250, 16.0470, 1.0310



18.4540, -16.1380, -4.8900

# Complementary

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



15.8010, 2.8390, 20.1430



33.1990, -2.8390, -20.1430

# 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.



15.2620, -7.1500, -13.5980



15.8010, 2.8390, 20.1430



13.2350, -2.5200, -9.4000

# Square

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



15.8010, 2.8390, 20.1430



13.7540, 27.4160, 9.7520



15.2620, -7.1500, -13.5980



21.7940, -22.7870, -0.0270



# Rectangle

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



15.8010, 2.8390, 20.1430



16.9160, 27.1400, 14.7560



15.2620, -7.1500, -13.5980



17.6560, -13.8910, -7.0670

# Sweetspot

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



15.8010, 2.8390, 20.1430



48.6400, 1.3740, 8.1420



16.5220, -18.8450, 5.6270



23.3470, 0.6410, 4.9050



158.0000, -0.0000, 0.0000



31.0000, -0.0000, -0.0000



# Same Dimension

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



15.8010, 2.8390, 20.1430



18.6150, 3.6630, 27.2390



19.9010, 14.3010, 21.6690



21.5270, -0.0460, 0.8340



26.6620, 5.4490, 38.9290



65.6580, 13.5540, 95.8100



# Inverse Universe

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



17.2790, 21.6840, 14.5160



20.7470, 29.2940, 19.7740



29.0990, -14.3010, -21.6690



21.5980, 1.1920, 0.4240



29.5470, 41.9010, 28.0850

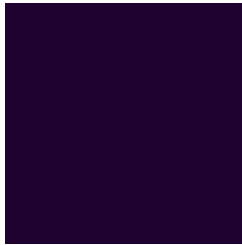


72.6500, 103.1480, 69.0040



# Previews

## White Background



This preview shows how the YIQ color 15.8010, 2.8390, 20.1430 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

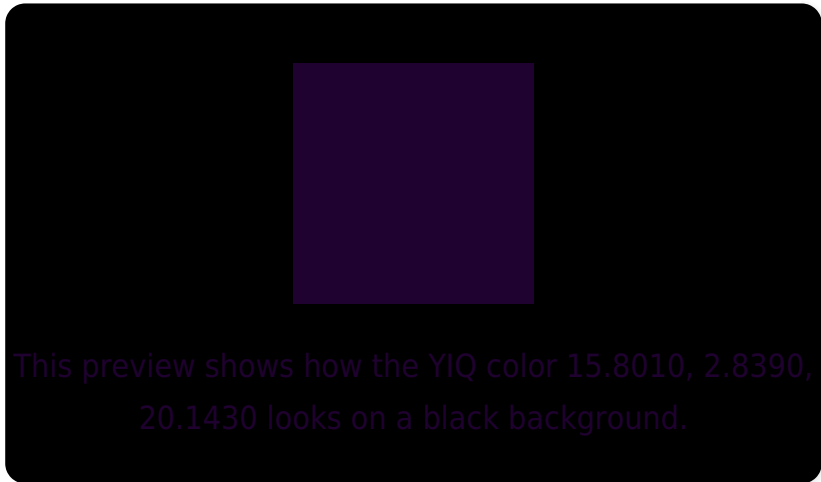
Any Text WCAG AA ✓ Pass

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

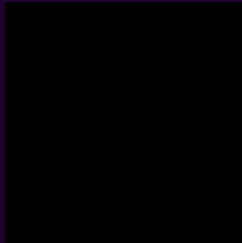
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 15.8010, 2.8390, 20.1430**

## **Background**



This preview shows how black text looks on a background with the YIQ color 15.8010, 2.8390, 20.1430.



This preview shows how white text looks on a background with the YIQ color 15.8010, 2.8390,



# 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

15.8010, 2.8390, 20.1430

### Protanopia

16.5280, -18.9820, 2.6020

### Deuteranopia

16.4310, -17.3310, 0.2130



## Tritanopia

20.6200, 4.1260, 2.3180

# Trichromacy



## Original Color

15.8010, 2.8390, 20.1430

## Protanomaly

15.9360, -11.1430, 9.2170

## Deuteranomaly

16.0670, -10.1340, 7.4500

## Tritanomaly

18.8360, 3.7580, 8.9900

# Monochromacy



## Original Color

15.8010, 2.8390, 20.1430

## Achromatopsia

16.0000, -0.0000, -0.0000

## Achromatomaly

15.8140, 0.8240, 7.0960

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 15.8010, 2.8390, 20.1430 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(31, 2, 47)` looks like.

```
.text, #text, p{  
    color:rgb(31, 2, 47)  
}
```

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(31, 2, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 2, 47) }
```

## Border

The CSS property to change the border of an element to YIQ 15.8010, 2.8390, 20.1430 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(31, 2, 47) }
```



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

```
.border{ border-color:rgb(31, 2, 47) }
```

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

Here you see how a box with a 4 pixel `rgb(31, 2, 47)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 2, 47); -webkit-box-shadow:4px  
4px 4px 4px rgb(31, 2, 47); box-shadow:4px  
4px 4px 4px rgb(31, 2, 47) }
```

# Background

The CSS property to change the background color of an element to YIQ 15.8010, 2.8390, 20.1430 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 2, 47) }
```

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

```
.background{ background-color: rgb(31, 2,  
47) }
```

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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