

# Converting Colors

YIQ(38.1360, 20.9490, 22.3330)

Have a look what the booklet for  
YIQ(38.1360, 20.9490, 22.3330)  
contains.

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# Color

**YIQ(38.1360, 20.9490,  
22.3330)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	481235
RGB	72, 18, 53
RGB Percent	28%, 7%, 21%
CMY	0.7175, 0.9295, 0.7921
CMYK	0.00, 0.75, 0.26, 0.72
HSL	321°, 60%, 18%
HSV	321°, 75%, 28%
XYZ	3.5342, 2.0682, 3.5828
YIQ	38.1360, 20.9490, 22.3330

# Conversions

## Conversions Part 2

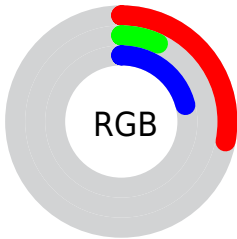
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	72, 18, 53
Decimal	4723253
CIE <sub>Lab</sub>	15.84, 29.64, -9.19
CIE <sub>LCh</sub>	16, 31.031, 342.773
Yxy	2.0682, 0.3848, 0.2252
Android (android.graphics.Color)	4282913333 (0xFF481235)
YUV	38.1360, 7.3280, 29.6987
Hunter-Lab	14.3814, 18.6988, -4.7039

# Details

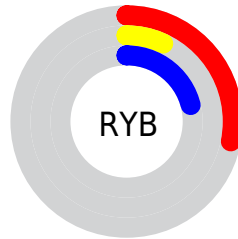
The YIQ color **38.1360, 20.9490, 22.3330** is a dark color, and the websafe version is hex **330033**. A complement of this color would be **51.8640, -20.9490, -22.3330**, and the grayscale version is **38.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **86.3320, 23.3330, 23.1810**, and **7.4470, 12.1030, 6.4310** is the 20% darker color. If you saturate the color by 10%, you get **33.6850, 23.8370, 25.0610**, and if you desaturate by 10%, it is **42.5870, 18.0610, 19.6050**.

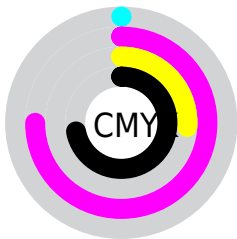
# Distribution



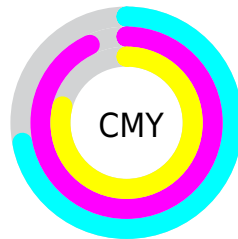
- Red (28%)
- Green (7%)
- Blue (21%)



- Red (28%)
- Yellow (7%)
- Blue (21%)



- Cyan (0%)
- Magenta (75%)
- Yellow (26%)
- Black (72%)



- Cyan (72%)
- Magenta (93%)
- Yellow (79%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 38.1360, 20.9490, 22.3330 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 38.1360, 20.9490, 22.3330 by changing the saturation by 10% instead.



■ 38.1360, 20.9490,  
22.3330

■ 38.1360, 20.9490,  
22.3330

■ 253.2390, 0.8250,  
1.5690

■ 18.0000, 18.3360,  
20.1280

■ 86.3320, 23.3330,  
23.1810

■ 7.4470, 12.1030,  
6.4310

■ 111.6310, 23.9290,  
23.3930

■ 0.0000, 0.0000,  
0.0000


■ 137.5280, 25.7170,  
24.0290


■ 164.2400, 26.5880,  
24.7640


■ 191.6530, 26.8630,  
25.2870


■ 217.2720, 23.5620,


24.5380


 236.2160, 8.8000,  
16.7360


 38.1360, 20.9490,  
22.3330


 38.1360, 20.9490,  
22.3330


 33.6850, 23.8370,  
25.0610

 42.5870, 18.0610,  
19.6050


 29.3480, 26.4040,  
28.1000

 46.9240, 15.4940,  
16.5660

 26.8860, 27.8250,  
29.8810

 51.9620, 12.3310,  
13.3150

 56.2990, 9.7640,  
10.2760

 60.7500, 6.8760,  
7.5480

■ 65.0870, 4.3090,  
4.5090

■ 69.5380, 1.4210,  
1.7810

■ 74.4620, -1.4210,  
-1.7810

■ 78.9130, -4.3090,  
-4.5090

# Harmonies

## Analogous

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



40.7790, -0.0950, 18.2490



38.1360, 20.9490, 22.3330



35.6610, 32.4120, 18.3320

# Triad

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



38.1360, 20.9490, 22.3330



36.6250, 13.7570, -12.5390



36.6290, -35.6240, -4.1680

# Complementary

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



38.1360, 20.9490, 22.3330



51.8640, -20.9490, -22.3330

# 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.



34.3490, -29.2040, -10.3880



38.1360, 20.9490, 22.3330



31.7860, -3.1140, -20.6660

# Square

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



38.1360, 20.9490, 22.3330



37.8980, 26.4100, -5.0620



31.7270, -21.8210, -17.5410



35.7630, -38.6970, 1.9670



# Rectangle

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



38.1360, 20.9490, 22.3330



36.4020, 34.3390, 10.9390



31.7270, -21.8210, -17.5410



35.9450, -33.6980, -6.0340

# Sweetspot

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



38.1360, 20.9490, 22.3330



80.8750, 8.0220, 8.8060



29.8370, -6.0100, 20.8220



39.9130, 4.8590, 5.5550



176.0000, -0.0000, -0.0000



48.0000, -0.0000, 0.0000



# Same Dimension

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



38.1360, 20.9490, 22.3330



40.6850, 33.0050, 35.1250



35.0580, 29.6160, 13.9360



33.4240, 1.7420, 1.4700



36.8970, 38.4600, 40.8920



84.6310, 88.1050, 93.8410



# Inverse Universe

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



38.1360, 20.9490, 22.3330



40.6850, 33.0050, 35.1250



54.9420, -29.6160, -13.9360



33.4240, 1.7420, 1.4700



36.8970, 38.4600, 40.8920

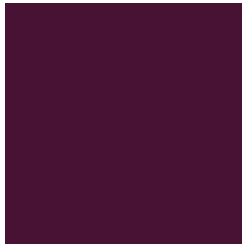


84.6310, 88.1050, 93.8410



# Previews

## White Background



This preview shows how the YIQ color 38.1360, 20.9490, 22.3330 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

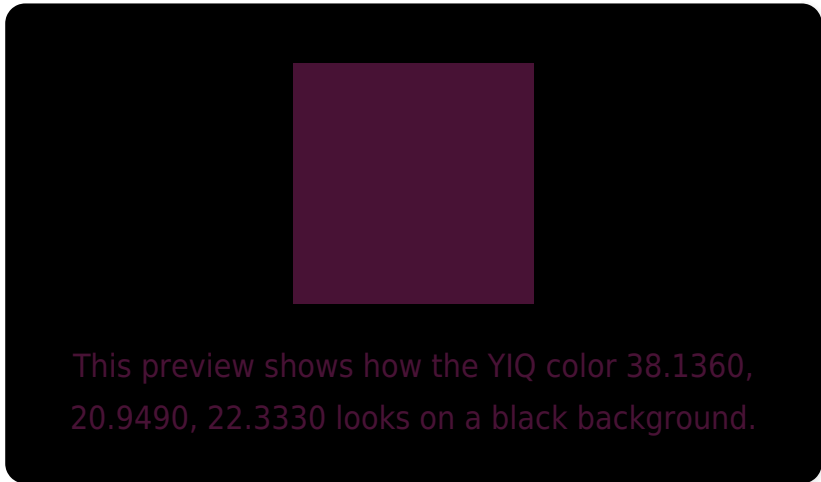
Any Text WCAG AA ✓ Pass

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

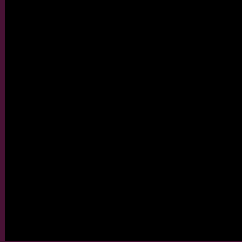
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 38.1360, 20.9490, 22.3330**

## **Background**



This preview shows how black text looks on a background with the YIQ color 38.1360, 20.9490, 22.3330.



This preview shows how white text looks on a background with the YIQ color 38.1360, 20.9490,



# 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

38.1360, 20.9490, 22.3330

### Protanopia

40.1310, -16.1860, 6.9980

### Deuteranopia

41.4390, -2.6140, 3.3220



## Tritanopia

39.3840, 25.5820, 9.9500

# Trichromacy



## Original Color

38.1360, 20.9490, 22.3330

## Protanomaly

39.5350, -2.5240, 12.7080

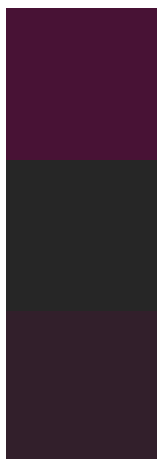
## Deuteranomaly

40.1460, 5.8210, 10.1490

## Tritanomaly

38.9480, 24.1140, 14.5300

# Monochromacy



## Original Color

38.1360, 20.9490, 22.3330

## Achromatopsia

38.0000, -0.0000, -0.0000

## Achromatomaly

38.0490, 7.4720, 7.7600

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 38.1360, 20.9490, 22.3330 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(72, 18, 53)` looks like.

```
.text, #text, p{  
    color:rgb(72, 18, 53)  
}
```

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(72, 18, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 18, 53) }
```

## Border

The CSS property to change the border of an element to YIQ 38.1360, 20.9490, 22.3330 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(72, 18, 53) }
```



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

```
.border{ border-color:rgb(72, 18, 53) }
```

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

Here you see how a box with a 4 pixel rgb(72, 18, 53) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 18, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 18, 53);  
box-shadow:4px 4px 4px 4px rgb(72, 18, 53)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 38.1360, 20.9490, 22.3330 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 18, 53) }
```

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

```
.background{ background-color: rgb(72, 18,  
53) }
```

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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