

# Converting Colors

YIQ(45.8010, 2.8390, 20.1430)

Have a look what the booklet for  
YIQ(45.8010, 2.8390, 20.1430)  
contains.

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# Color

**YIQ(45.8010, 2.8390,  
20.1430)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3D204D
RGB	61, 32, 77
RGB Percent	24%, 13%, 30%
CMY	0.7607, 0.8746, 0.6981
CMYK	0.21, 0.58, 0.00, 0.70
HSL	279°, 41%, 21%
HSV	279°, 58%, 30%
XYZ	3.7815, 2.5610, 7.3151
YIQ	45.8010, 2.8390, 20.1430

# Conversions

## Conversions Part 2

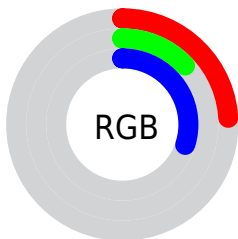
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	61, 32, 77
Decimal	4005965
CIE <sub>Lab</sub>	18.19, 23.31, -22.35
CIE <sub>LCh</sub>	18, 32.297, 316.203
Yxy	2.5610, 0.2769, 0.1875
Android (android.graphics.Color)	4282196045 (0xFF3D204D)
YUV	45.8010, 15.3811, 13.3295
Hunter-Lab	16.0031, 14.1739, -15.8995

# Details

The YIQ color **45.8010, 2.8390, 20.1430** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **63.1990, -2.8390, -20.1430**, and the grayscale version is **46.0000, 0.0000, -0.0000**.

A 20% lighter version of the original color is **92.4530, 3.9390, 22.2350**, and **8.5460, -1.0570, 13.6550** is the 20% darker color. If you saturate the color by 10%, you get **40.2080, 3.2510, 23.6910**, and if you desaturate by 10%, it is **51.3940, 2.4270, 16.5950**.

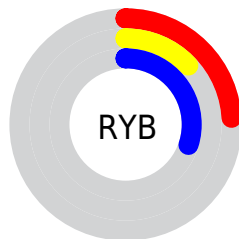
# Distribution



Red (24%)

Green (13%)

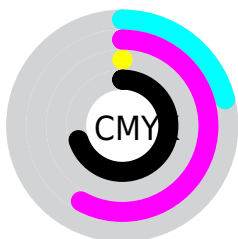
Blue (30%)



Red (24%)

Yellow (13%)

Blue (30%)

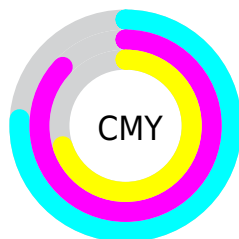


Cyan (21%)

Magenta (58%)

Yellow (0%)

Black (70%)



Cyan (76%)

Magenta (87%)

Yellow (70%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 45.8010, 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 45.8010, 2.8390, 20.1430 by changing the saturation by 10% instead.



■ 45.8010, 2.8390,  
20.1430

■ 45.8010, 2.8390,  
20.1430

■ 255.0000, -0.0000,  
-0.0000

■ 23.9750, 2.2890,  
19.0970

■ 92.4530, 3.9390,  
22.2350

■ 8.5460, -1.0570,  
13.6550

■ 117.8660, 4.2140,  
22.7580

■ 0.5700, -1.6050,  
1.5550

■ 143.3930, 4.1680,  
23.5920

■ 0.0000, 0.0000,  
0.0000


■ 170.2190, 4.7180,  
24.6380


■ 197.6320, 4.9930,  
25.1610


■ 224.7200, 7.5610,

22.6730


 243.8470, 5.2250,  
9.9370


 45.8010, 2.8390,  
20.1430

 45.8010, 2.8390,  
20.1430


 40.2080, 3.2510,  
23.6910


 51.3940, 2.4270,  
16.5950


 35.5010, 3.9840,  
26.9280


 56.1010, 1.6940,  
13.3580


 29.9080, 4.3960,  
30.4760

 61.6940, 1.2820,  
9.8100

 24.3150, 4.8080,  
34.0240

 67.2870, 0.8700,  
6.2620

 23.7280, 5.0830,  
34.5470

 72.2930, 0.7330,  
3.2370

■ 77.5870, -0.2750,  
-0.5230

■ 83.1800, -0.6870,  
-4.0710

■ 88.7730, -1.0990,  
-7.6190

■ 93.7790, -1.2360,  
-10.6440

# Harmonies

## Analogous

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



40.5840, -30.5830, 9.1050



45.8010, 2.8390, 20.1430



42.9300, 24.5250, 23.6050

# Triad

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



45.8010, 2.8390, 20.1430



42.3280, 28.0150, -6.6170



38.7830, -33.4220, -11.0380

# Complementary

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



45.8010, 2.8390, 20.1430



63.1990, -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.



35.3460, -25.1220, -18.2900



45.8010, 2.8390, 20.1430



41.0440, 13.8950, -15.0410

# Square

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



45.8010, 2.8390, 20.1430



41.6700, 36.2200, 4.3800



35.5080, -8.2030, -22.0510



40.5900, -39.8880, -3.9840



# Rectangle

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



45.8010, 2.8390, 20.1430



41.2420, 32.2740, 20.8340



35.5080, -8.2030, -22.0510



37.8710, -30.8540, -13.5260

# Sweetspot

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



45.8010, 2.8390, 20.1430



87.2270, 1.0990, 7.6190



46.5220, -18.8450, 5.6270



43.3470, 0.6410, 4.9050



179.0000, -0.0000, -0.0000



51.0000, -0.0000, -0.0000



# Same Dimension

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



45.8010, 2.8390, 20.1430



51.3210, 4.6710, 30.9990



49.9010, 14.3010, 21.6690



35.3530, 0.5040, 1.8800



31.3620, 6.5940, 45.7140



70.4720, 14.3780, 102.9060



# Inverse Universe

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



47.2790, 21.6840, 14.5160



53.4810, 33.0990, 22.4030



59.0990, -14.3010, -21.6690



35.4240, 1.7420, 1.4700



34.6020, 49.2360, 32.8200



78.0040, 111.0790, 73.9510



# Previews

## White Background



This preview shows how the YIQ color 45.8010, 2.8390, 20.1430 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

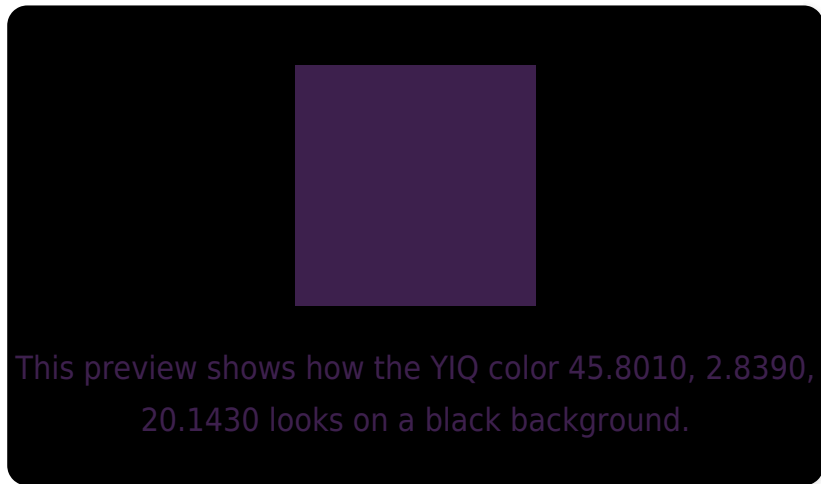
Any Text WCAG AA ✓ Pass

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

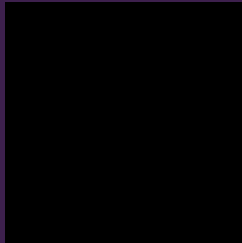
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 45.8010, 2.8390, 20.1430**

## **Background**



This preview shows how black text looks on a background with the YIQ color 45.8010, 2.8390, 20.1430.



This preview shows how white text looks on a background with the YIQ color 45.8010, 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

45.8010, 2.8390, 20.1430

### Protanopia

41.0570, -30.5370, 8.2710

### Deuteranopia

42.6250, -20.6330, 4.9910



## Tritanopia

45.8270, 7.9770, 4.1130

# Trichromacy



## Original Color

45.8010, 2.8390, 20.1430

## Protanomaly

43.0370, -18.6170, 12.5110

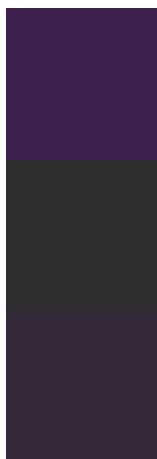
## Deuteranomaly

43.6910, -11.8310, 10.6730

## Tritanomaly

46.0320, 6.1420, 9.8380

# Monochromacy



## Original Color

45.8010, 2.8390, 20.1430

## Achromatopsia

46.0000, 0.0000, -0.0000

## Achromatomaly

45.8140, 0.8240, 7.0960

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 45.8010, 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(61, 32, 77)` looks like.

```
.text, #text, p{  
    color:rgb(61, 32, 77)  
}
```

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(61, 32, 77) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(61, 32, 77) }
```

## Border

The CSS property to change the border of an element to YIQ 45.8010, 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(61, 32, 77) }
```



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

```
.border{ border-color:rgb(61, 32, 77) }
```

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

Here you see how a box with a 4 pixel `rgb(61, 32, 77)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(61, 32, 77); -webkit-box-  
shadow:4px 4px 4px 4px rgb(61, 32, 77);  
box-shadow:4px 4px 4px 4px rgb(61, 32, 77)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 45.8010, 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(61, 32, 77) }
```

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

```
.background{ background-color: rgb(61, 32,  
77) }
```

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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