

# Converting Colors

YIQ(38.2200, 46.5350, 10.1750)

Have a look what the booklet for  
YIQ(38.2200, 46.5350, 10.1750)  
contains.

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# Color

**YIQ(38.2200, 46.5350,  
10.1750)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	591304
RGB	89, 19, 4
RGB Percent	35%, 7%, 2%
CMY	0.6508, 0.9256, 0.9841
CMYK	0.00, 0.79, 0.95, 0.65
HSL	11°, 91%, 18%
HSV	11°, 95%, 35%
XYZ	4.3782, 2.5995, 0.3873
YIQ	38.2200, 46.5350, 10.1750

# Conversions

## Conversions Part 2

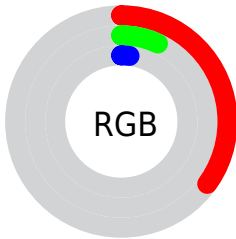
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	89, 22, 4
Decimal	5837572
CIE Lab	18.36, 31.12, 26.12
CIE LCh	18, 40.630, 40.007
Yxy	2.5995, 0.5945, 0.3529
Android (android.graphics.Color)	4284027652 (0xFF591304)
YUV	38.2200, -16.8705, 44.5341
Hunter-Lab	16.1228, 20.2576, 9.8618

# Details

The YIQ color **38.2200, 46.5350, 10.1750** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **54.7800, -46.5350, -10.1750**, and the grayscale version is **38.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **88.9710, 51.6700, 10.7260**, and **11.4760, 22.3270, 8.3670** is the 20% darker color. If you saturate the color by 10%, you get **36.0030, 48.6440, 10.5000**, and if you desaturate by 10%, it is **43.3550, 41.7210, 9.3130**.

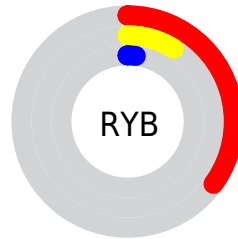
# Distribution



Red (35%)

Green (7%)

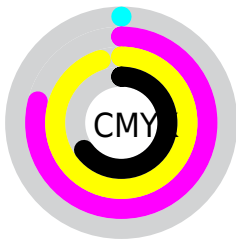
Blue (2%)



Red (35%)

Yellow (9%)

Blue (2%)

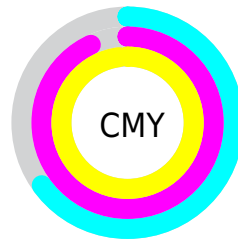


Cyan (0%)

Magenta (79%)

Yellow (95%)

Black (65%)



Cyan (65%)

Magenta (93%)

Yellow (98%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 38.2200, 46.5350, 10.1750 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 38.2200, 46.5350, 10.1750 by changing the saturation by 10% instead.



■ 38.2200, 46.5350,  
10.1750

■ 38.2200, 46.5350,  
10.1750

■ 252.0360, 8.3460,  
-8.0860

■ 18.5380, 36.9520,  
13.1440

■ 88.9710, 51.6700,  
10.7260

■ 11.4760, 22.3270,  
8.3670

■ 113.9390, 54.6960,  
10.9520

■ 0.0000, 0.0000,  
0.0000

■ 140.9070, 57.7220,  
11.1780

■ 167.6900, 59.8310,  
11.5030

■ 193.3800, 57.7680,  
10.3440

■ 212.3070, 41.6760,

4.6200

■ 232.4080, 25.0340,  
-2.1500

■ 38.2200, 46.5350,  
10.1750

■ 38.2200, 46.5350,  
10.1750

■ 36.0030, 48.6440,  
10.5000

■ 43.3550, 41.7210,  
9.3130

■ 49.0770, 36.6320,  
7.9280

■ 54.2120, 31.8180,  
7.0660

■ 59.3470, 27.0040,  
6.2040

■ 65.0690, 21.9150,  
4.8190

■ 70.0900, 17.4220,  
3.6460

■ 75.2250, 12.6080,  
2.7840

■ 80.9470, 7.5190,  
1.3990

■ 86.0820, 2.7050,  
0.5370

# Harmonies

## Analogous

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



33.6830, 44.5140, 30.2900



38.2200, 46.5350, 10.1750



42.6600, 33.0120, -3.5640

# Triad

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



38.2200, 46.5350, 10.1750



35.4940, -22.7830, -22.1350



38.1570, -45.4380, 8.4980

# Complementary

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



38.2200, 46.5350, 10.1750



54.7800, -46.5350, -10.1750

# 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.



42.5110, -46.6750, 3.3810



38.2200, 46.5350, 10.1750



39.6150, -33.0090, -13.0170

# Square

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



38.2200, 46.5350, 10.1750



35.5960, -5.6350, -24.5390



42.8070, -41.9970, -4.3090



45.5000, -3.4430, 23.8610



# Rectangle

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



38.2200, 46.5350, 10.1750



42.5720, 21.2760, -11.1400



42.8070, -41.9970, -4.3090



40.6190, -46.8590, 6.7170

# Sweetspot

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



38.2200, 46.5350, 10.1750



94.6880, 18.6140, 4.0700



37.5090, 27.8690, 40.1010



46.6270, 11.4160, 2.3600



186.0000, -0.0000, -0.0000



59.0000, 0.0000, -0.0000



# Same Dimension

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



38.2200, 46.5350, 10.1750



46.1250, 63.0400, 13.9200



62.8740, 34.9850, -11.7910



40.7830, 2.1090, 0.3250



43.1460, 58.5470, 12.7470



94.3320, 128.7850, 28.3770



# Inverse Universe

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



54.7800, -46.5350, -10.1750



68.8750, -63.0400, -13.9200



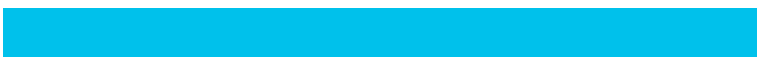
30.1260, -34.9850, 11.7910



41.8040, -2.3840, -0.8480



63.8540, -58.5470, -12.7470

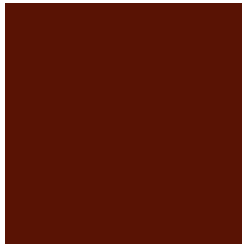


140.0810, -128.5100, -27.8540



# Previews

## White Background



This preview shows how the YIQ color 38.2200, 46.5350, 10.1750 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

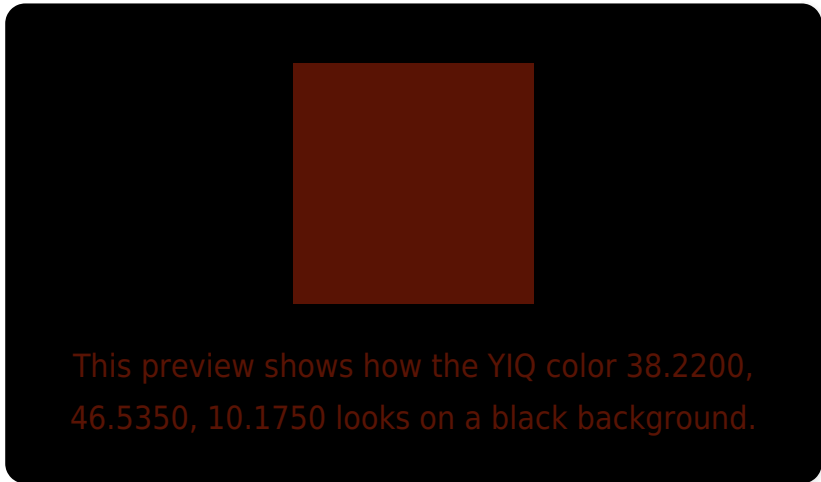
Any Text WCAG AA ✓ Pass

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

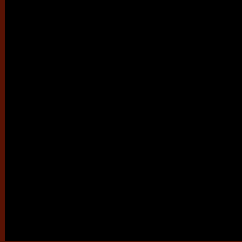
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 38.2200, 46.5350, 10.1750

## Background



This preview shows how black text looks on a background with the YIQ color 38.2200, 46.5350, 10.1750.



This preview shows how white text looks on a background with the YIQ color 38.2200, 46.5350,



# 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

38.2200, 46.5350, 10.1750

### Protanopia

44.8040, 14.8110, -9.6130

### Deuteranopia

44.0560, 22.7890, -11.0270



## Tritanopia

39.2290, 42.3160, 15.0520

# Trichromacy



## Original Color

38.2200, 46.5350, 10.1750

## Protanomaly

42.4790, 26.2720, -2.5600

## Deuteranomaly

42.1760, 31.4990, -3.6770

## Tritanomaly

38.6590, 43.9210, 13.4970

# Monochromacy



## Original Color

38.2200, 46.5350, 10.1750

## Achromatopsia

38.0000, -0.0000, -0.0000

## Achromatomaly

38.2040, 17.1010, 3.9570

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 38.2200, 46.5350, 10.1750 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(89, 19, 4)` looks like.

```
.text, #text, p{  
    color:rgb(89, 19, 4)  
}
```

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(89, 19, 4) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 19, 4) }
```

## Border

The CSS property to change the border of an element to YIQ 38.2200, 46.5350, 10.1750 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(89, 19, 4) }
```



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

```
.border{ border-color:rgb(89, 19, 4) }
```

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

Here you see how a box with a 4 pixel `rgb(89, 19, 4)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 19, 4); -webkit-box-shadow:4px  
4px 4px 4px rgb(89, 19, 4); box-shadow:4px  
4px 4px 4px rgb(89, 19, 4) }
```

# Background

The CSS property to change the background color of an element to YIQ 38.2200, 46.5350, 10.1750 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 19, 4) }
```

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

```
.background{ background-color: rgb(89, 19,  
4) }
```

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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