

# Converting Colors

YIQ(22.8900, -47.9190, 36.9530)

Have a look what the booklet for  
YIQ(22.8900, -47.9190, 36.9530)  
contains.

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# Color

**YIQ(22.8900, -47.9190,  
36.9530)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	000C8B
RGB	0, 12, 139
RGB Percent	0%, 5%, 55%
CMY	0.9999, 0.9529, 0.4552
CMYK	1.00, 0.91, 0.00, 0.46
HSL	235°, 100%, 27%
HSV	235°, 100%, 54%
XYZ	4.7865, 2.1251, 24.5558
YIQ	22.8900, -47.9190, 36.9530

# Conversions

## Conversions Part 2

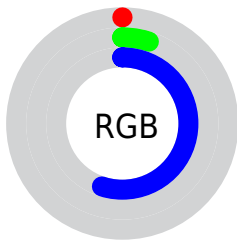
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 11, 139
Decimal	3211
CIELab	16.13, 46.15, -66.34
CIELCh	16, 80.814, 304.823
Yxy	2.1251, 0.1521, 0.0675
Android (android.graphics.Color)	4278193291 (0xFF000C8B)
YUV	22.8900, 57.2422, -20.0745
Hunter-Lab	14.5777, 33.0988, -89.6685

# Details

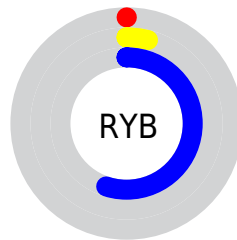
The YIQ color **22.8900, -47.9190, 36.9530** is a dark color, and the websafe version is hex **330099**. A complement of this color would be **116.1100, 47.9190, -36.9530**, and the grayscale version is **22.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **82.7510, -28.1140, 46.9740**, and **9.9180, -27.9270, 27.0570** is the 20% darker color. If you saturate the color by 10%, you get **22.8900, -47.9190, 36.9530**, and if you desaturate by 10%, it is **34.7070, -43.1500, 33.1220**.

# Distribution



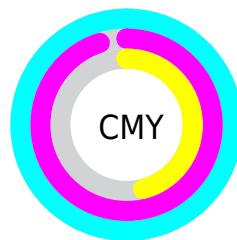
- Red (0%)
- Green (5%)
- Blue (55%)



- Red (0%)
- Yellow (4%)
- Blue (55%)



- Cyan (100%)
- Magenta (91%)
- Yellow (0%)
- Black (46%)



- Cyan (100%)
- Magenta (95%)
- Yellow (46%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 22.8900, -47.9190, 36.9530 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 22.8900, -47.9190, 36.9530 by changing the saturation by 10% instead.



■ 22.8900, -47.9190,  
36.9530

■ 22.8900, -47.9190,  
36.9530

■ 250.3040, 2.2000,  
4.1840

■ 12.8820, -36.2730,  
35.1430

■ 82.7510, -28.1140,  
46.9740

■ 9.9180, -27.9270,  
27.0570

■ 109.0010,  
-25.8220, 49.4900

■ 10.7040, -21.8730,  
16.4550

■ 136.5390,  
-24.4010, 51.2710

■ 6.3210, -13.6650,  
10.8710

■ 160.9280,  
-15.5510, 45.0650

■ 2.6390, -6.0530,  
5.0750

■ 185.1600, -4.8210,  
37.8270

■ 0.0000, 0.0000,  
0.0000

■ 210.5660, 5.3590,

29.5430

■ 233.2810, 10.1750,  
19.3510

■ 22.8900, -47.9190,  
36.9530

■ 34.7070, -43.1500,  
33.1220

■ 45.9370, -38.1060,  
29.8140

■ 57.7540, -33.3370,  
25.9830

■ 69.5710, -28.5680,  
22.1520

■ 80.5020, -24.1200,  
18.6320

■ 92.3190, -19.3510,  
14.8010

■ 104.1360,  
-14.5820, 10.9700

■ 115.9530, -9.8130,  
7.1390

■ 127.1830, -4.7690,  
3.8310

# Harmonies

## Analogous

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



47.7040, -65.4310, 23.9210



22.8900, -47.9190, 36.9530



42.9650, 35.7530, 51.4090

# Triad

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



22.8900, -47.9190, 36.9530



29.5350, 50.2020, 15.3060



39.0450, -31.4040, -14.5720

# Complementary

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



22.8900, -47.9190, 36.9530



116.1100, 47.9190, -36.9530

# 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.



32.8720, -15.4000, -29.2880



22.8900, -47.9190, 36.9530



37.2120, 13.4820, -13.0620

# Square

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



22.8900, -47.9190, 36.9530



34.9830, 69.7320, 24.8040



30.5240, -14.3000, -27.1960



47.4180, -50.8470, 1.8970



# Rectangle

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



22.8900, -47.9190, 36.9530



43.7160, 58.0830, 43.1950



30.5240, -14.3000, -27.1960



36.6510, -24.6630, -21.1030

# Sweetspot

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



22.8900, -47.9190, 36.9530



135.5040, -18.4340, 14.7020



95.8430, -78.3500, -33.8220



64.5230, -11.4180, 8.6940



219.0000, 0.0000, -0.0000



92.0000, 0.0000, -0.0000



# Same Dimension

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



22.8900, -47.9190, 36.9530



30.0260, -62.5010, 47.9230



32.5900, -11.2430, 55.1010



63.3850, -2.5220, 1.6540



21.6190, -45.7180, 35.6100



0.5700, -1.6050, 1.5550



# Inverse Universe

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



42.9290, 78.9920, 33.2000



55.9430, 102.7400, 43.3480



106.4100, 11.2430, -55.1010



64.2070, 3.8510, 1.7950



41.0210, 75.7370, 31.6170

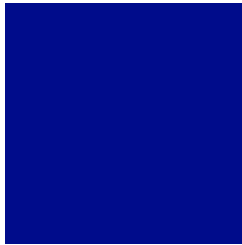


1.4950, 2.9800, 1.0600



# Previews

## White Background



This preview shows how the YIQ color 22.8900, -47.9190, 36.9530 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

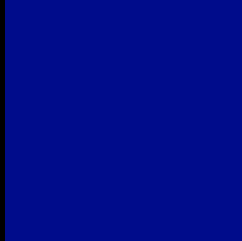
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



This preview shows how the YIQ color 22.8900, -47.9190, 36.9530 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

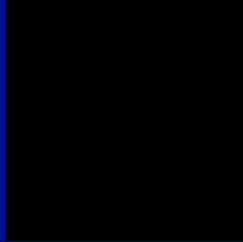
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 22.8900, -47.9190, 36.9530

## Background



This preview shows how black text looks on a background with the YIQ color 22.8900, -47.9190, 36.9530.



This preview shows how white text looks on a background with the YIQ color 22.8900, -47.9190,



# 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

22.8900, -47.9190, 36.9530

### Protanopia

33.9850, -39.2020, 5.6140

### Deuteranopia

34.1500, -35.5330, -0.3090



## Tritanopia

33.8760, -29.2500, -9.5540

# Trichromacy



## Original Color

22.8900, -47.9190, 36.9530

## Protanomaly

29.6940, -42.2760, 17.2760

## Deuteranomaly

29.8420, -39.9370, 13.4310

## Tritanomaly

29.8930, -35.9470, 7.1970

# Monochromacy



## Original Color

22.8900, -47.9190, 36.9530

## Achromatopsia

23.0000, 0.0000, -0.0000

## Achromatomaly

23.0480, -17.1500, 13.4580

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 22.8900, -47.9190, 36.9530 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(0, 12, 139)` looks like.

```
.text, #text, p{  
    color:rgb(0, 12, 139)  
}
```

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(0, 12, 139) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 12, 139) }
```

## Border

The CSS property to change the border of an element to YIQ 22.8900, -47.9190, 36.9530 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(0, 12, 139) }
```



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

```
.border{ border-color:rgb(0, 12, 139) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 12, 139)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 12, 139); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 12, 139);  
box-shadow:4px 4px 4px 4px rgb(0, 12, 139)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 22.8900, -47.9190, 36.9530 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 12, 139) }
```

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

```
.background{ background-color: rgb(0, 12,  
139) }
```

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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