

# Converting Colors

YIQ(49.7140, -45.0280, 23.1000)

Have a look what the booklet for  
YIQ(49.7140, -45.0280, 23.1000)  
contains.

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# Color

**YIQ(49.7140, -45.0280,  
23.1000)**

# Conversions

## Conversions Part 1

Format	Color
Hex	152F8B
RGB	21, 47, 139
RGB Percent	8%, 18%, 55%
CMY	0.9176, 0.8156, 0.4552
CMYK	0.85, 0.66, 0.00, 0.46
HSL	227°, 74%, 31%
HSV	227°, 85%, 54%
XYZ	5.9817, 4.0556, 24.8692
YIQ	49.7140, -45.0280, 23.1000

# Conversions

## Conversions Part 2

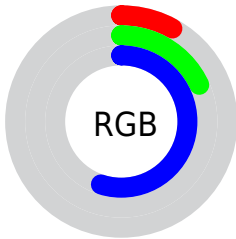
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	21, 42, 139
Decimal	1388427
CIE <sub>Lab</sub>	23.85, 27.10, -53.54
CIE <sub>LCh</sub>	24, 60.007, 296.845
Yxy	4.0556, 0.1714, 0.1162
Android (android.graphics.Color)	4279578507 (0xFF152F8B)
YUV	49.7140, 44.0180, -25.1822
Hunter-Lab	20.1384, 17.7779, -59.1212

# Details

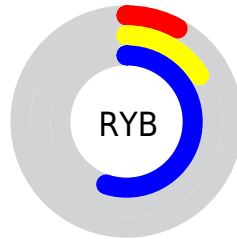
The YIQ color **49.7140, -45.0280, 23.1000** is a dark color, and the websafe version is hex **003399**. A complement of this color would be **110.2860, 45.0280, -23.1000**, and the grayscale version is **49.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **102.9050, -35.0800, 30.0400**, and **12.3800, -29.3480, 25.2760** is the 20% darker color. If you saturate the color by 10%, you get **39.0710, -50.3470, 25.8850**, and if you desaturate by 10%, it is **60.3570, -39.7090, 20.3150**.

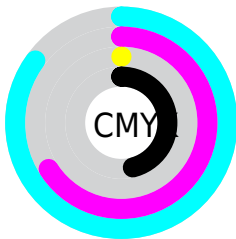
# Distribution



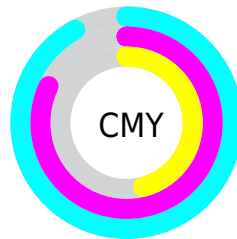
- Red (8%)
- Green (18%)
- Blue (55%)



- Red (8%)
- Yellow (16%)
- Blue (55%)



- Cyan (85%)
- Magenta (66%)
- Yellow (0%)
- Black (46%)



- Cyan (92%)
- Magenta (82%)
- Yellow (46%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 49.7140, -45.0280, 23.1000 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 49.7140, -45.0280, 23.1000 by changing the saturation by 10% instead.



■ 49.7140, -45.0280,  
23.1000

■ 49.7140, -45.0280,  
23.1000

■ 255.0000, -0.0000,  
-0.0000

■ 28.7310, -43.6980,  
21.0220

■ 102.9050,  
-35.0800, 30.0400

■ 12.3800, -29.3480,  
25.2760

■ 128.9700,  
-33.7050, 32.6550

■ 10.7040, -21.8730,  
16.4550

■ 156.2090,  
-32.8800, 34.2240

■ 6.4350, -13.9860,  
11.1820

■ 180.2990,  
-24.6260, 27.8060

■ 2.6390, -6.0530,  
5.0750

■ 205.4060,  
-15.0420, 19.3100

■ 0.0000, 0.0000,  
0.0000

■ 230.8120, -4.8620,

11.0260

253.8260, 0.5500,  
1.0460

■ 49.7140, -45.0280,  
23.1000

■ 49.7140, -45.0280,  
23.1000

■ 39.0710, -50.3470,  
25.8850

■ 60.3570, -39.7090,  
20.3150

■ 34.0430, -53.1440,  
27.0160

■ 71.0000, -34.3900,  
17.5300

■ 81.6430, -29.0710,  
14.7450

■ 91.6990, -23.4770,  
12.4830

■ 102.0430,  
-18.7540, 9.4860

■ 112.6860,  
-13.4350, 6.7010

■ 123.3290, -8.1160,  
3.9160

■ 133.9720, -2.7970,  
1.1310

■ 144.0280, 2.7970,  
-1.1310

# Harmonies

## Analogous

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



55.1410, -65.7040, 12.3440



49.7140, -45.0280, 23.1000



45.3430, 25.9410, 53.0210

# Triad

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



49.7140, -45.0280, 23.1000



49.9020, 56.1180, 7.2060



48.6650, -36.4460, -22.3180

# Complementary

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



49.7140, -45.0280, 23.1000



110.2860, 45.0280, -23.1000

# 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.



41.6770, -19.5250, -37.1330



49.7140, -45.0280, 23.1000



54.1230, 29.8500, -12.3420

# Square

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



49.7140, -45.0280, 23.1000



40.5520, 69.8680, 33.3560



47.4130, -0.8660, -28.3700



54.4960, -51.4870, -8.5350



# Rectangle

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



49.7140, -45.0280, 23.1000



46.0820, 48.5450, 50.8570



47.4130, -0.8660, -28.3700



46.7270, -30.9890, -27.6050

# Sweetspot

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



49.7140, -45.0280, 23.1000



147.0000, -17.1950, 8.7650



100.5260, -61.3400, -33.7240



70.7140, -10.6380, 5.5700



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.



49.7140, -45.0280, 23.1000



44.1140, -69.1010, 35.3710



43.7210, -19.4020, 43.2700



63.3850, -2.5220, 1.6540



32.1850, -50.6680, 26.1960



1.1570, -1.8800, 1.0320



# Inverse Universe

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



59.2460, 61.9820, 33.1020



58.6790, 95.0360, 50.8120



115.9800, 18.8060, -43.4820



64.2070, 3.8510, 1.7950



43.0730, 69.9590, 37.2150

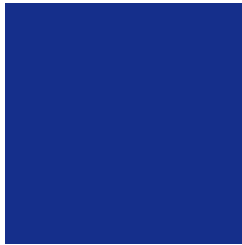


1.6090, 2.6590, 1.3710



# Previews

## White Background



This preview shows how the YIQ color 49.7140, -45.0280, 23.1000 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 49.7140, -45.0280, 23.1000 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

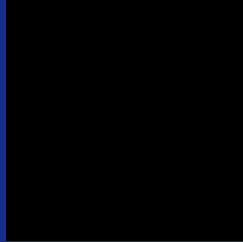
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 49.7140, -45.0280, 23.1000

## Background



This preview shows how black text looks on a background with the YIQ color 49.7140, -45.0280, 23.1000.



This preview shows how white text looks on a background with the YIQ color 49.7140, -45.0280,



# 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

49.7140, -45.0280, 23.1000

### Protanopia

45.5090, -52.3610, 7.3110

### Deuteranopia

45.9190, -48.0040, -0.0680



## Tritanopia

44.6190, -38.8320, -12.1120

# Trichromacy



## Original Color

49.7140, -45.0280, 23.1000

## Protanomaly

47.0520, -49.3360, 13.0640

## Deuteranomaly

47.6730, -46.9510, 8.3850

## Tritanomaly

46.4530, -40.7600, 0.8080

# Monochromacy



## Original Color

49.7140, -45.0280, 23.1000

## Achromatopsia

50.0000, -0.0000, -0.0000

## Achromatomaly

49.7720, -16.5530, 8.1430

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 49.7140, -45.0280, 23.1000 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(21, 47, 139)` looks like.

```
.text, #text, p{  
    color:rgb(21, 47, 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(21, 47, 139) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(21, 47, 139) }
```

## Border

The CSS property to change the border of an element to YIQ 49.7140, -45.0280, 23.1000 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(21, 47, 139) }
```



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

```
.border{ border-color:rgb(21, 47, 139) }
```

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

Here you see how a box with a 4 pixel `rgb(21, 47, 139)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(21, 47, 139); -webkit-box-  
shadow:4px 4px 4px 4px rgb(21, 47, 139);  
box-shadow:4px 4px 4px 4px rgb(21, 47,  
139) }
```

# Background

The CSS property to change the background color of an element to YIQ 49.7140, -45.0280, 23.1000 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(21, 47, 139) }
```

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

```
.background{ background-color: rgb(21, 47,  
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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