

# Converting Colors

YIQ(78.4530, -22.4240, 20.9360)

Have a look what the booklet for  
YIQ(78.4530, -22.4240, 20.9360)  
contains.

<b>YIQ(78.4530, -22.4240, 20.9360)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**YIQ(78.4530, -22.4240,  
20.9360)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	46478B
RGB	70, 71, 139
RGB Percent	27%, 28%, 55%
CMY	0.7254, 0.7216, 0.4550
CMYK	0.50, 0.49, 0.00, 0.46
HSL	239°, 33%, 41%
HSV	239°, 50%, 54%
XYZ	9.4374, 7.6720, 25.3957
YIQ	78.4530, -22.4240, 20.9360

# Conversions

## Conversions Part 2

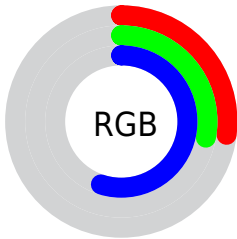
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	70, 71, 139
Decimal	4605835
CIE <sub>Lab</sub>	33.29, 19.07, -38.13
CIE <sub>LCh</sub>	33, 42.632, 296.575
Yxy	7.6720, 0.2220, 0.1805
Android (android.graphics.Color)	4282795915 (0xFF46478B)
YUV	78.4530, 29.8497, -7.4133
Hunter-Lab	27.6985, 12.3458, -34.9719

# Details

The YIQ color **78.4530, -22.4240, 20.9360** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **130.5470, 22.4240, -20.9360**, and the grayscale version is **78.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **128.6320, -21.3700, 23.8620**, and **30.0560, -28.7960, 15.2680** is the 20% darker color. If you saturate the color by 10%, you get **66.0490, -26.9180, 25.2900**, and if you desaturate by 10%, it is **90.8570, -17.9300, 16.5820**.

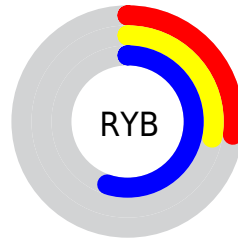
# Distribution



Red (27%)

Green (28%)

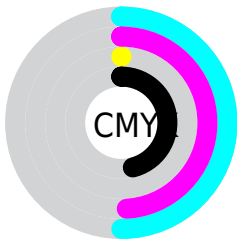
Blue (55%)



Red (27%)

Yellow (28%)

Blue (55%)

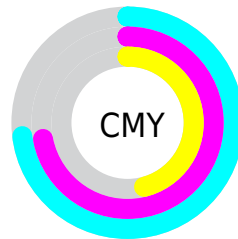


Cyan (50%)

Magenta (49%)

Yellow (0%)

Black (46%)



Cyan (73%)

Magenta (72%)

Yellow (46%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 78.4530, -22.4240, 20.9360 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 78.4530, -22.4240, 20.9360 by changing the saturation by 10% instead.



■ 78.4530, -22.4240,  
20.9360

■ 78.4530, -22.4240,  
20.9360

■ 255.0000, -0.0000,  
-0.0000

■ 54.5020, -24.1200,  
18.6320

■ 128.6320,  
-21.3700, 23.8620

■ 30.0560, -28.7960,  
15.2680

■ 155.1590,  
-21.4160, 24.6960

■ 9.0570, -21.3690,  
18.3350

■ 182.3870,  
-22.0580, 25.3180

■ 6.5490, -14.3070,  
11.4930

■ 207.4770,  
-13.8040, 18.9000

■ 2.8670, -6.6950,  
5.6970

■ 232.5840, -4.2200,  
10.4040

■ 0.0000, 0.0000,  
0.0000

■ 78.4530, -22.4240,  
20.9360

■ 78.4530, -22.4240,  
20.9360

■ 66.0490, -26.9180,  
25.2900

■ 90.8570, -17.9300,  
16.5820

■ 54.2320, -31.6870,  
29.1210

■ 102.6740,  
-13.1610, 12.7510

■ 41.8280, -36.1810,  
33.4750

■ 115.0780, -8.6670,  
8.3970

■ 29.4240, -40.6750,  
37.8290

■ 127.4820, -4.1730,  
4.0430

■ 17.9060, -44.8480,  
41.8720

■ 139.0000, -0.0000,  
0.0000

■ 17.0200, -45.1690,  
42.1830

■ 151.4040, 4.4940,  
-4.3540

■ 163.8080, 8.9880,  
-8.7080

■ 176.2120, 13.4820,

-13.0620

■ 188.0290, 18.2510,  
-16.8930

# Harmonies

## Analogous

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



65.3650, -69.6910, 1.9970



78.4530, -22.4240, 20.9360



79.8940, 16.1790, 31.6910

# Triad

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



78.4530, -22.4240, 20.9360



75.5650, 49.5170, 0.1810



63.5000, -49.2830, -26.4590

# Complementary

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



78.4530, -22.4240, 20.9360



130.5470, 22.4240, -20.9360

# 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.



60.5540, -32.1800, -33.5560



78.4530, -22.4240, 20.9360



73.3270, 37.7830, -18.4490

# Square

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



78.4530, -22.4240, 20.9360



74.8390, 52.4020, 19.4900



70.1280, 13.1180, -28.4980



67.4900, -60.5180, -15.5740



# Rectangle

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



78.4530, -22.4240, 20.9360



77.5880, 34.6560, 32.7360



70.1280, 13.1180, -28.4980



61.5450, -45.1560, -29.6680

# Sweetspot

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



78.4530, -22.4240, 20.9360



157.0780, -8.6670, 8.3970



118.2550, -40.8030, -14.9390



77.5250, -5.7320, 4.7640



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.



78.4530, -22.4240, 20.9360



85.6000, -35.5390, 32.8530



87.7330, -2.4810, 28.4550



62.7980, -2.2470, 2.1770



16.3360, -43.2430, 40.3170



0.5700, -1.6050, 1.5550



# Inverse Universe

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



90.7450, 40.8030, 14.9390



104.8190, 64.3220, 23.7300



121.2670, 2.4810, -28.4550



64.0930, 4.1720, 1.4840



39.9950, 78.6260, 28.8180



1.4950, 2.9800, 1.0600



# Previews

## White Background



This preview shows how the YIQ color 78.4530, -22.4240, 20.9360 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 78.4530, -22.4240, 20.9360 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

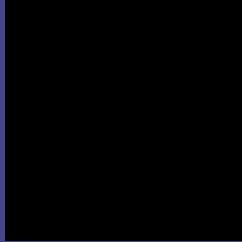
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**YIQ 78.4530, -22.4240, 20.9360**

## **Background**



This preview shows how black text looks on a background with the YIQ color 78.4530, -22.4240, 20.9360.



This preview shows how white text looks on a background with the YIQ color 78.4530, -22.4240,



# 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

78.4530, -22.4240, 20.9360

### Protanopia

74.1840, -40.9000, 14.3640

### Deuteranopia

70.6620, -48.4180, 7.4380



## Tritanopia

75.3120, -18.6140, -4.0700

# Trichromacy



## Original Color

78.4530, -22.4240, 20.9360

## Protanomaly

75.4730, -34.3440, 16.6960

## Deuteranomaly

73.5000, -38.9740, 12.4980

## Tritanomaly

76.5110, -20.3120, 4.6800

# Monochromacy



## Original Color

78.4530, -22.4240, 20.9360

## Achromatopsia

78.0000, -0.0000, -0.0000

## Achromatomaly

77.8500, -8.0250, 7.7750

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 78.4530, -22.4240, 20.9360 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(70, 71, 139)` looks like.

```
.text, #text, p{  
    color:rgb(70, 71, 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(70, 71, 139) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 71, 139) }
```

## Border

The CSS property to change the border of an element to YIQ 78.4530, -22.4240, 20.9360 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(70, 71, 139) }
```



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

```
.border{ border-color:rgb(70, 71, 139) }
```

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

Here you see how a box with a 4 pixel rgb(70, 71, 139) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 71, 139); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 71, 139);  
box-shadow:4px 4px 4px 4px rgb(70, 71,  
139) }
```

# Background

The CSS property to change the background color of an element to YIQ 78.4530, -22.4240, 20.9360 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 71, 139) }
```

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

```
.background{ background-color: rgb(70, 71,  
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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