

# Converting Colors

YIQ(117.7640, -65.6600,  
22.5640)

Have a look what the booklet for  
YIQ(117.7640, -65.6600, 22.5640)  
contains.

<b>YIQ(117.7640, -65.6600, 22.5640)</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(117.7640, -65.6600,  
22.5640)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	4579E5
RGB	69, 121, 229
RGB Percent	27%, 47%, 90%
CMY	0.7294, 0.5254, 0.1023
CMYK	0.70, 0.47, 0.00, 0.10
HSL	220°, 75%, 58%
HSV	220°, 70%, 90%
XYZ	23.4239, 20.5971, 76.8055
YIQ	117.7640, -65.6600, 22.5640

# Conversions

## Conversions Part 2

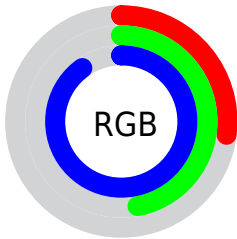
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	69, 108, 229
Decimal	4553189
CIE Lab	52.51, 18.20, -59.92
CIE LCh	53, 62.625, 286.892
Yxy	20.5971, 0.1939, 0.1705
Android (android.graphics.Color)	4282743269 (0xFF4579E5)
YUV	117.7640, 54.8393, -42.7660
Hunter-Lab	45.3840, 12.7067, -68.5706

# Details

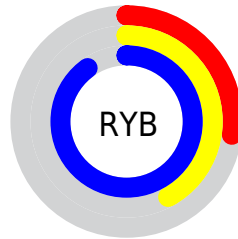
The YIQ color **117.7640, -65.6600, 22.5640** is a dark color, and the websafe version is hex **3366CC**. The color can be described as middle muted azure. A complement of this color would be **180.2360, 65.6600, -22.5640**, and the grayscale version is **117.0000, -0.0000, 0.0000**.

A 20% lighter version of the original color is **170.6870, -49.5660, 17.2340**, and **62.5730, -75.6080, 15.6240** is the 20% darker color. If you saturate the color by 10%, you get **102.0820, -75.2430, 25.5330**, and if you desaturate by 10%, it is **133.4460, -56.0770, 19.5950**.

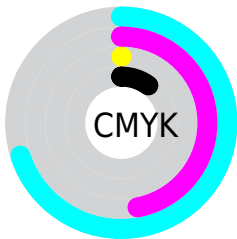
# Distribution



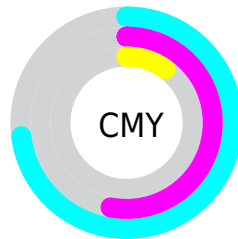
- Red (27%)
- Green (47%)
- Blue (90%)



- Red (27%)
- Yellow (42%)
- Blue (90%)



- Cyan (70%)
- Magenta (47%)
- Yellow (0%)
- Black (10%)



- Cyan (73%)
- Magenta (53%)
- Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 117.7640, -65.6600, 22.5640 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 117.7640, -65.6600, 22.5640 by changing the saturation by 10% instead.



■ 117.7640,  
-65.6600, 22.5640

■ 117.7640,  
-65.6600, 22.5640

■ 255.0000, -0.0000,  
-0.0000

■ 86.0180, -78.3590,  
15.9210

■ 170.6870,  
-49.5660, 17.2340

■ 62.5730, -75.6080,  
15.6240

■ 195.8050,  
-38.5150, 9.6850

■ 47.0540, -60.8450,  
17.8990

■ 221.2110,  
-28.3350, 1.4010

■ 32.3500, -46.9990,  
20.2730

■ 246.0300,  
-17.8800, -6.3600

■ 15.9990, -32.6490,  
24.5270

■ 12.5620, -24.3490,  
17.2750

■ 7.5920, -15.8660,

12.2140

■ 3.3230, -7.9790,  
6.9410

■ 0.0000, 0.0000,  
0.0000

■ 117.7640,  
-65.6600, 22.5640

■ 117.7640,  
-65.6600, 22.5640

■ 102.0820,  
-75.2430, 25.5330

■ 133.4460,  
-56.0770, 19.5950

■ 85.8130, -84.5510,  
29.0250

■ 149.7150,  
-46.7690, 16.1030

■ 70.1310, -94.1340,  
31.9940

■ 165.3970,  
-37.1860, 13.1340

■ 69.5440, -93.8590,  
32.5170

■ 181.6660,  
-27.8780, 9.6420

■ 197.0490,  
-18.8910, 6.4610

■ 213.3180, -9.5830,  
2.9690

■ 229.0000, -0.0000,  
-0.0000

■ 245.2690, 9.3080,  
-3.4920

■ 252.0360, 8.3460,  
-8.0860

# Harmonies

## Analogous

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



107.2260, -111.7800, -0.6440



117.7640, -65.6600, 22.5640



128.3730, 8.0610, 46.6610

# Triad

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



117.7640, -65.6600, 22.5640



120.0700, 82.0680, 10.4840



98.1620, -72.4790, -46.6150

# Complementary

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



117.7640, -65.6600, 22.5640



180.2360, 65.6600, -22.5640

# 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.



105.2170, -21.5860, -49.3460



117.7640, -65.6600, 22.5640



117.7480, 69.9700, -23.5820

# Square

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



117.7640, -65.6600, 22.5640



118.2270, 81.3290, 40.4090



113.9620, 36.4120, -43.1720



105.7200, -91.0050, -30.2450



# Rectangle

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



117.7640, -65.6600, 22.5640



125.1400, 42.6300, 53.4300



113.9620, 36.4120, -43.1720



95.5230, -66.4260, -51.6900

# Sweetspot

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



117.7640, -65.6600, 22.5640



217.7220, -22.2840, 7.3800



175.1180, -78.3470, -50.4030



105.5180, -13.0220, 4.7220



0.0000, 0.0000, 0.0000



128.0000, -0.0000, -0.0000



# Same Dimension

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



117.7640, -65.6600, 22.5640



105.8990, -87.6690, 30.4670



95.3130, -35.2680, 55.4840



106.7160, -4.9520, 1.6400



54.4520, -73.4090, 25.3350



15.7930, -21.0460, 6.9700



# Inverse Universe

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



122.7680, 78.6680, 50.0920



112.8520, 105.3950, 66.8270



202.6870, 35.2680, -55.4840



107.0440, 5.8680, 3.7880



60.1330, 88.0660, 55.9860



17.1870, 24.9390, 16.0990



# Previews

## White Background



This preview shows how the YIQ color 117.7640, -65.6600, 22.5640 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

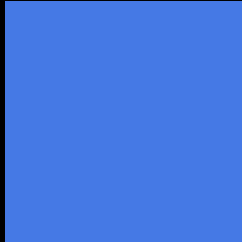
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the YIQ color 117.7640, -65.6600, 22.5640 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

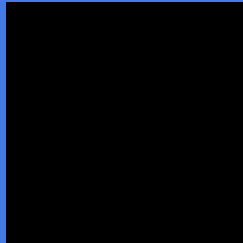
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# YIQ 117.7640, -65.6600, 22.5640

## Background



This preview shows how black text looks on a background with the YIQ color 117.7640, -65.6600, 22.5640.



This preview shows how white text looks on a background with the YIQ color 117.7640, -65.6600,



# 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

117.7640, -65.6600, 22.5640

### Protanopia

118.0630, -65.0640, 22.7760

### Deuteranopia

100.0850, -106.8290, 3.2430



## Tritanopia

97.9920, -85.7790, -25.8350

# Trichromacy



## Original Color

117.7640, -65.6600, 22.5640

## Protanomaly

118.0630, -65.0640, 22.7760

## Deuteranomaly

106.6140, -92.0210, 10.2110

## Tritanomaly

105.2510, -78.5380, -8.3780

# Monochromacy



## Original Color

117.7640, -65.6600, 22.5640

## Achromatopsia

118.0000, 0.0000, -0.0000

## Achromatomaly

117.7650, -23.8430, 8.1010

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 117.7640, -65.6600, 22.5640 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(69, 121, 229)` looks like.

```
.text, #text, p{  
    color:rgb(69, 121, 229)  
}
```

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(69, 121, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 121, 229) }
```

## Border

The CSS property to change the border of an element to YIQ 117.7640, -65.6600, 22.5640 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(69, 121, 229) }
```



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

```
.border{ border-color:rgb(69, 121, 229) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 121, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 121, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 121, 229);  
box-shadow:4px 4px 4px 4px rgb(69, 121,  
229) }
```

# Background

The CSS property to change the background color of an element to YIQ 117.7640, -65.6600, 22.5640 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 121, 229) }
```

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

```
.background{ background-color: rgb(69, 121,  
229) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor