

# Converting Colors

$Y_{xy}(28.6429, 0.2739, 0.3167)$

Have a look what the booklet for  
Yxy(28.6429, 0.2739, 0.3167)  
contains.

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# Color

**Yxy(28.7416, 0.2740, 0.3172)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	75989F
RGB	117, 152, 159
RGB Percent	46%, 60%, 62%
CMY	0.5410, 0.4039, 0.3765
CMYK	0.26, 0.04, 0.00, 0.38
HSL	190°, 18%, 54%
HSV	190°, 26%, 62%
XYZ	24.8272, 28.7416, 37.0415
YIQ	142.3330, -23.1070, -5.2430

# Conversions

## Conversions Part 2

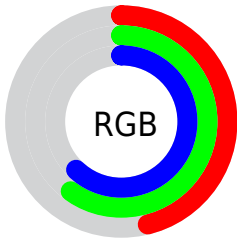
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	117, 136, 159
Decimal	7706783
CIE <sub>Lab</sub>	60.55, -10.35, -7.63
CIE <sub>LCh</sub>	61, 12.858, 216.397
Yxy	28.7416, 0.2740, 0.3172
Android (android.graphics.Color)	4285896863 (0xFF75989F)
YUV	142.3330, 8.2168, -22.2170
Hunter-Lab	53.6112, -11.1566, -3.4373

# Details

The Yxy color **28.7416, 0.2740, 0.3172** is a dark color, and the websafe version is hex **669999**. A complement of this color would be **23.0872, 0.3646, 0.3405**, and the grayscale version is **27.1668, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.5437, 0.2816, 0.3190**, and **11.5834, 0.2603, 0.3116** is the 20% darker color. If you saturate the color by 10%, you get **26.8799, 0.2606, 0.3121**, and if you desaturate by 10%, it is **30.8121, 0.2883, 0.3220**.

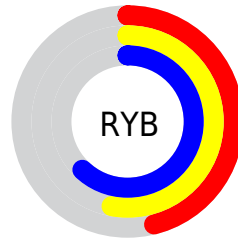
# Distribution



Red (46%)

Green (60%)

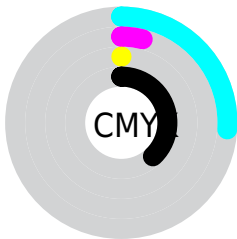
Blue (62%)



Red (46%)

Yellow (53%)

Blue (62%)

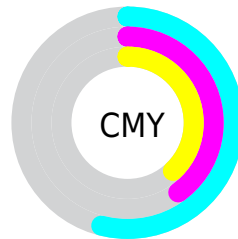


Cyan (26%)

Magenta (4%)

Yellow (0%)

Black (38%)



Cyan (54%)

Magenta (40%)


Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.7416, 0.2740, 0.3172 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 Yxy color 28.7416, 0.2740, 0.3172 by changing the saturation by 10% instead.




 28.7416, 0.2740,  
0.3172


 28.7416, 0.2740,  
0.3172


295.9938, 0.2947,  
0.3238

 18.8854, 0.2684,  
0.3153


 57.6663, 0.2819,  
0.3198

 11.5875, 0.2608,  
0.3126


 77.5036, 0.2847,  
0.3207

 6.4635, 0.2502,  
0.3086


 101.4367, 0.2871,  
0.3215

 3.1289, 0.2342,  
0.3022

129.8501, 0.2891,  
0.3221

 1.1994, 0.2077,  
0.2903

163.1281, 0.2908,  
0.3226

 0.0612, 0.0000,  
0.0926

201.6551, 0.2923,

 0.0000, 0.0000,

0.3231

0.0000

245.8156, 0.2935,  
0.3235

■ 28.7416, 0.2740,  
0.3172

■ 28.7416, 0.2740,  
0.3172

■ 26.8799, 0.2606,  
0.3121

■ 30.8121, 0.2883,  
0.3220

■ 25.2138, 0.2483,  
0.3067

■ 33.0968, 0.3031,  
0.3264

■ 23.7342, 0.2373,  
0.3010

■ 35.6052, 0.3182,  
0.3304

■ 22.4297, 0.2281,  
0.2952

■ 38.3451, 0.3333,  
0.3340

■ 21.2873, 0.2206,  
0.2893

■ 41.3241, 0.3483,  
0.3373

■ 20.2922, 0.2150,  
0.2834

■ 44.5492, 0.3629,  
0.3401

■ 19.4231, 0.2111,  
0.2776

■ 48.0273, 0.3771,  
0.3426

■ 19.1233, 0.2099,  
0.2755

■ 51.7648, 0.3907,  
0.3448

■ 54.7778, 0.3992,  
0.3470

# Harmonies

## Analogous

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



28.7416, 0.2844, 0.3368



28.7416, 0.2740, 0.3172



28.7416, 0.2736, 0.3018

# Triad

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



28.7416, 0.2740, 0.3172



28.7416, 0.3222, 0.3051



28.7416, 0.3423, 0.3649

# Complementary

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



28.7416, 0.2740, 0.3172



23.0872, 0.3646, 0.3405

# 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.



28.7416, 0.3533, 0.3548



28.7416, 0.2740, 0.3172



28.7416, 0.3415, 0.3206

# Square

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



28.7416, 0.2740, 0.3172



28.7416, 0.3009, 0.2956



28.7416, 0.3531, 0.3386



28.7416, 0.3236, 0.3652



# Rectangle

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



28.7416, 0.2740, 0.3172



28.7416, 0.2790, 0.2957



28.7416, 0.3531, 0.3386



28.7416, 0.3471, 0.3625

# Sweetspot

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



28.7428, 0.2740, 0.3172



58.5188, 0.3004, 0.3256



30.0393, 0.3034, 0.3898



13.0567, 0.2983, 0.3250



80.7346, 0.3127, 0.3290



13.9985, 0.3127, 0.3290



# Same Dimension

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



28.7428, 0.2740, 0.3172



49.3546, 0.2655, 0.3141



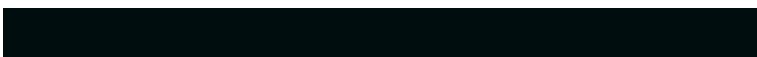
22.5303, 0.2706, 0.2807



7.3207, 0.2988, 0.3252



15.1555, 0.2100, 0.2760



0.3167, 0.2165, 0.2993



# Inverse Universe

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



22.3720, 0.3237, 0.2751



36.0528, 0.3269, 0.2621



28.9135, 0.3566, 0.3730



6.7355, 0.3161, 0.3106



7.1522, 0.3672, 0.1796



0.1325, 0.3460, 0.1680



# Previews

## White Background



This preview shows how the Yxy color 28.7416, 0.2740, 0.3172 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 Yxy color 28.7416, 0.2740, 0.3172 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

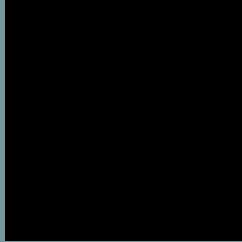
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

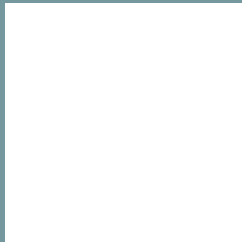
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 28.7416, 0.2740, 0.3172**

## **Background**



This preview shows how black text looks on a background with the Yxy color 28.7416, 0.2740, 0.3172.

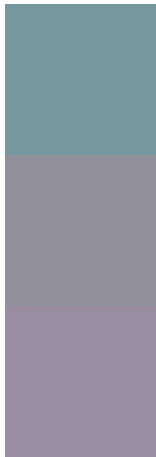


This preview shows how white text looks on a background with the Yxy color 28.7416, 0.2740, 0.3172.

# 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

28.7416, 0.2740, 0.3172

### Protanopia

28.7283, 0.3042, 0.3133

### Deuteranopia

28.6915, 0.3057, 0.3000



## Tritanopia

28.6291, 0.2715, 0.3091

# Trichromacy



## Original Color

28.7416, 0.2740, 0.3172

## Protanomaly

28.7310, 0.2924, 0.3160

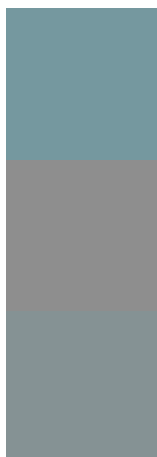
## Deuteranomaly

28.6713, 0.2936, 0.3068

## Tritanomaly

28.5934, 0.2723, 0.3107

# Monochromacy



## Original Color

28.7416, 0.2740, 0.3172

## Achromatopsia

27.0498, 0.3127, 0.3290

## Achromatomaly

27.6824, 0.2976, 0.3257

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  28.7416, 0.2740, 0.3172 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(117, 152, 159)` looks like.

```
.text, #text, p{  
    color:rgb(117, 152, 159)  
}
```

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(117, 152, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 152, 159) }
```

## Border

The CSS property to change the border of an element to Yxy 28.7416, 0.2740, 0.3172 is called "border". The border property can be set on classes, ids or directly on the HTML element.

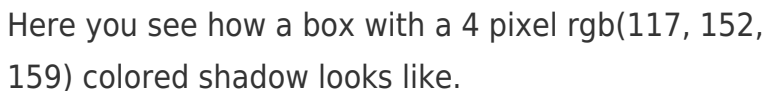
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(117, 152, 159) }
```

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

```
.border{ border-color:rgb(117, 152, 159) }
```

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



Here you see how a box with a 4 pixel `rgb(117, 152, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 152, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 152, 159);  
box-shadow:4px 4px 4px 4px rgb(117, 152,  
159) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.7416, 0.2740, 0.3172 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 152, 159) }
```

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

```
.background{ background-color: rgb(117,  
152, 159) }
```

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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