

# Converting Colors

$Y_{xy}(24.3737, 0.2422, 0.3103)$

Have a look what the booklet for  
Yxy(24.3737, 0.2422, 0.3103)  
contains.

<b>Yxy(24.3745, 0.2422, 0.3103)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(24.3745, 0.2422, 0.3103)**

# Conversions

## Conversions Part 1

Format	Color
Hex	49929C
RGB	73, 146, 156
RGB Percent	29%, 57%, 61%
CMY	0.7138, 0.4274, 0.3883
CMYK	0.53, 0.06, 0.00, 0.39
HSL	187°, 36%, 45%
HSV	187°, 53%, 61%
XYZ	19.0251, 24.3745, 35.1518
YIQ	125.3130, -46.7180, -12.3660

# Conversions

## Conversions Part 2

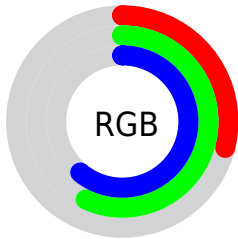
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	73, 112, 156
Decimal	4821660
CIE <sub>Lab</sub>	56.46, -19.85, -12.27
CIE <sub>LCh</sub>	56, 23.334, 211.722
Yxy	24.3745, 0.2422, 0.3103
Android (android.graphics.Color)	4283011740 (0xFF49929C)
YUV	125.3130, 15.1287, -45.8785
Hunter-Lab	49.3705, -17.6127, -7.6550

# Details

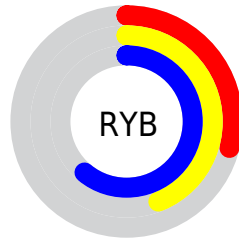
The Yxy color **24.3745, 0.2422, 0.3103** is a dark color, and the websafe version is hex **669999**. A complement of this color would be **13.7287, 0.4531, 0.3456**, and the grayscale version is **20.5772, 0.3127, 0.3290**.

A 20% lighter version of the original color is **50.5509, 0.2570, 0.3154**, and **9.2172, 0.2173, 0.3005** is the 20% darker color. If you saturate the color by 10%, you get **23.2670, 0.2330, 0.3062**, and if you desaturate by 10%, it is **25.6462, 0.2530, 0.3143**.

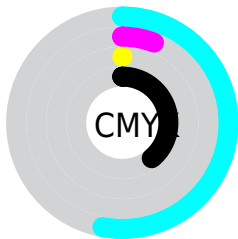
# Distribution



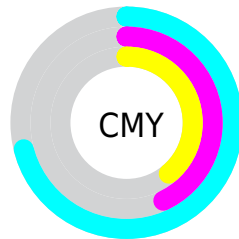
- Red (29%)
- Green (57%)
- Blue (61%)



- Red (29%)
- Yellow (44%)
- Blue (61%)



- Cyan (53%)
- Magenta (6%)
- Yellow (0%)
- Black (39%)



- Cyan (71%)
- Magenta (43%)
- Yellow (39%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.3745, 0.2422, 0.3103 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 24.3745, 0.2422, 0.3103 by changing the saturation by 10% instead.




 24.3745, 0.2422,  
0.3103


 24.3745, 0.2422,  
0.3103


274.7084, 0.2803,  
0.3215


 15.6117, 0.2317,  
0.3067


 50.6406, 0.2568,  
0.3149


 9.2498, 0.2176,  
0.3015


 68.9127, 0.2620,  
0.3165


 4.9045, 0.1977,  
0.2935

 91.1234, 0.2664,  
0.3177

 2.1913, 0.1681,  
0.2798

 117.6569, 0.2701,  
0.3188

 0.7153, 0.0719,  
0.2634

 148.8978, 0.2732,  
0.3196

 0.0000, 0.0000,  
0.0000

185.2304, 0.2759,

0.3204

227.0392, 0.2783,  
0.3210

■ 24.3745, 0.2422,  
0.3103

■ 24.3745, 0.2422,  
0.3103

■ 23.2670, 0.2330,  
0.3062

■ 25.6462, 0.2530,  
0.3143

■ 22.3091, 0.2256,  
0.3021

■ 27.0898, 0.2653,  
0.3180

■ 21.4885, 0.2200,  
0.2980

■ 28.7157, 0.2787,  
0.3216

■ 20.7892, 0.2162,  
0.2939

■ 30.5329, 0.2930,  
0.3250

■ 20.3562, 0.2142,  
0.2911

■ 32.5495, 0.3079,  
0.3281

■ 34.7733, 0.3230,  
0.3309

■ 37.2117, 0.3383,  
0.3334

■ 39.8715, 0.3534,  
0.3357

■ 42.7594, 0.3682,  
0.3377

# Harmonies

## Analogous

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



24.3745, 0.2633, 0.3496



24.3745, 0.2422, 0.3103



24.3745, 0.2388, 0.2799

# Triad

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



24.3745, 0.2422, 0.3103



24.3745, 0.3237, 0.2813



24.3745, 0.3732, 0.3953

# Complementary

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



24.3745, 0.2422, 0.3103



13.7287, 0.4531, 0.3456

# 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.



24.3745, 0.3922, 0.3717



24.3745, 0.2422, 0.3103



24.3745, 0.3630, 0.3077

# Square

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



24.3745, 0.2422, 0.3103



24.3745, 0.2836, 0.2658



24.3745, 0.3887, 0.3399



24.3745, 0.3384, 0.4015



# Rectangle

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



24.3745, 0.2422, 0.3103



24.3745, 0.2466, 0.2680



24.3745, 0.3887, 0.3399



24.3745, 0.3817, 0.3889

# Sweetspot

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



24.3754, 0.2422, 0.3103



54.4005, 0.2885, 0.3240



25.8099, 0.2984, 0.4759



11.8319, 0.2858, 0.3233



78.7412, 0.3127, 0.3290



13.2868, 0.3127, 0.3290



# Same Dimension

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



24.3754, 0.2422, 0.3103



41.8850, 0.2313, 0.3054



13.8777, 0.2256, 0.2273



7.3732, 0.2988, 0.3262



16.8019, 0.2143, 0.2914



0.3351, 0.2188, 0.3078



# Inverse Universe

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



13.9046, 0.3328, 0.2175



21.3040, 0.3383, 0.1979



22.0060, 0.4136, 0.4111



6.7408, 0.3155, 0.3096



7.3184, 0.3531, 0.1719

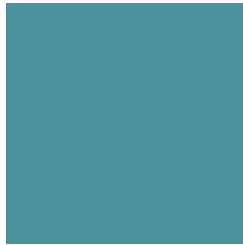


0.1344, 0.3386, 0.1639



# Previews

## White Background



This preview shows how the Yxy color 24.3745, 0.2422, 0.3103 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 24.3745, 0.2422, 0.3103 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

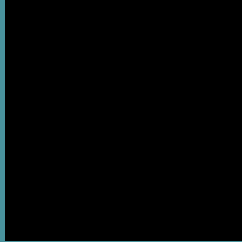
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

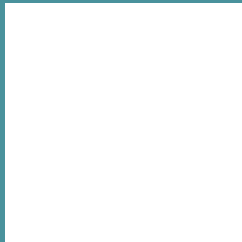
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 24.3745, 0.2422, 0.3103**

## **Background**



This preview shows how black text looks on a background with the Yxy color 24.3745, 0.2422, 0.3103.

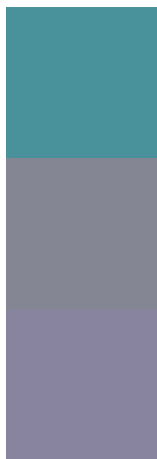


This preview shows how white text looks on a background with the Yxy color 24.3745, 0.2422, 0.3103.

# 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

24.3745, 0.2422, 0.3103

### Protanopia

24.1749, 0.2974, 0.3054

### Deuteranopia

24.2400, 0.2899, 0.2849



## Tritanopia

24.4822, 0.2415, 0.3067

# Trichromacy



## Original Color

24.3745, 0.2422, 0.3103

## Protanomaly

23.7908, 0.2730, 0.3059

## Deuteranomaly

23.8707, 0.2687, 0.2925

## Tritanomaly

24.4479, 0.2422, 0.3085

# Monochromacy



## Original Color

24.3745, 0.2422, 0.3103

## Achromatopsia

20.5079, 0.3127, 0.3290

## Achromatomaly

21.6168, 0.2808, 0.3233

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.3745, 0.2422, 0.3103 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(73, 146, 156)` looks like.

```
.text, #text, p{  
    color:rgb(73, 146, 156)  
}
```

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(73, 146, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 146, 156) }
```

## Border

The CSS property to change the border of an element to Yxy 24.3745, 0.2422, 0.3103 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(73, 146, 156) }
```

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

```
.border{ border-color:rgb(73, 146, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 146, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 146, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 146, 156);  
box-shadow:4px 4px 4px 4px rgb(73, 146,  
156) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 24.3745, 0.2422, 0.3103$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 146, 156) }
```

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

```
.background{ background-color: rgb(73, 146,  
156) }
```

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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