

# Converting Colors

$Y_{xy}(24.0371, 0.2962, 0.2985)$

Have a look what the booklet for  
Yxy(24.0371, 0.2962, 0.2985)  
contains.

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# Color

**Yxy(24.1603, 0.2966, 0.2990)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	878597
RGB	135, 133, 151
RGB Percent	53%, 52%, 59%
CMY	0.4705, 0.4784, 0.4079
CMYK	0.11, 0.12, 0.00, 0.41
HSL	247°, 8%, 56%
HSV	247°, 12%, 59%
XYZ	23.9664, 24.1603, 32.6770
YIQ	135.6500, -4.5860, 6.0220

# Conversions

## Conversions Part 2

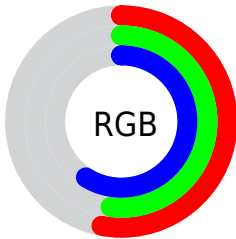
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	135, 133, 151
Decimal	8881559
CIE <sub>Lab</sub>	56.25, 4.47, -9.34
CIE <sub>LCh</sub>	56, 10.352, 295.572
Yxy	24.1603, 0.2966, 0.2990
Android (android.graphics.Color)	4287071639 (0xFF878597)
YUV	135.6500, 7.5675, -0.5701
Hunter-Lab	49.1531, 1.0161, -5.0088

# Details

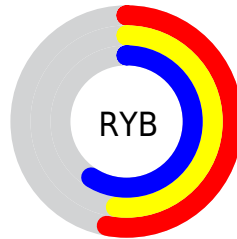
The Yxy color  $24.1603, 0.2966, 0.2990$  is a dark color, and the websafe version is hex  $999999$ . A complement of this color would be  $30.2139, 0.3278, 0.3577$ , and the grayscale version is  $24.4565, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $50.2170, 0.3000, 0.3055$ , and  $9.1920, 0.2903, 0.2895$  is the 20% darker color. If you saturate the color by 10%, you get  $19.2763, 0.2811, 0.2706$ , and if you desaturate by 10%, it is  $29.7808, 0.3103, 0.3245$ .

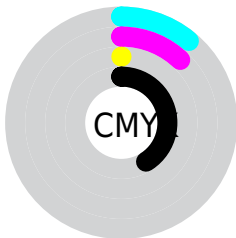
# Distribution



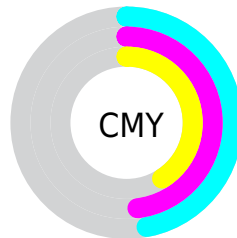
- Red (53%)
- Green (52%)
- Blue (59%)



- Red (53%)
- Yellow (52%)
- Blue (59%)



- Cyan (11%)
- Magenta (12%)
- Yellow (0%)
- Black (41%)



- Cyan (47%)
- Magenta (48%)
- Yellow (41%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.1603, 0.2966, 0.2990 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 24.1603, 0.2966, 0.2990 by changing the saturation by 10% instead.



■ 24.1603, 0.2966,  
0.2990

■ 24.1603, 0.2966,  
0.2990

273.6299, 0.3056,  
0.3154

■ 15.4526, 0.2940,  
0.2944

■ 50.2917, 0.3001,  
0.3053

■ 9.1376, 0.2904,  
0.2880

■ 68.4841, 0.3014,  
0.3076

■ 4.8311, 0.2851,  
0.2789

■ 90.6069, 0.3024,  
0.3095

■ 2.1485, 0.2765,  
0.2646

117.0444, 0.3032,  
0.3111

■ 0.6917, 0.2612,  
0.2357

148.1811, 0.3040,  
0.3124

■ 0.0000, 0.0000,  
0.0000

184.4013, 0.3046,

0.3135

226.0894, 0.3051,  
0.3145

■ 24.1603, 0.2966,  
0.2990

■ 24.1603, 0.2966,  
0.2990

■ 19.2763, 0.2811,  
0.2706

■ 29.7808, 0.3103,  
0.3245

■ 15.0954, 0.2637,  
0.2395

■ 36.1635, 0.3222,  
0.3469

■ 11.5860, 0.2450,  
0.2064

■ 43.3364, 0.3325,  
0.3666

■ 8.7129, 0.2254,  
0.1727

■ 51.3254, 0.3413,  
0.3837

■ 6.4379, 0.2059,  
0.1402

■ 60.1551, 0.3488,  
0.3986

■ 4.7185, 0.1879,  
0.1111

■ 69.8490, 0.3553,  
0.4115

■ 3.5064, 0.1726,  
0.0877

■ 80.4297, 0.3608,  
0.4227

■ 2.7453, 0.1612,  
0.0715

■ 91.9191, 0.3655,  
0.4325

■ 2.3525, 0.1547,  
0.0626

■ 95.0143, 0.3739,  
0.4302

# Harmonies

## Analogous

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



24.1603, 0.2836, 0.3007



24.1603, 0.2966, 0.2990



24.1603, 0.3142, 0.3048

# Triad

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



24.1603, 0.2966, 0.2990



24.1603, 0.3484, 0.3466



24.1603, 0.2935, 0.3416

# Complementary

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



24.1603, 0.2966, 0.2990



30.2139, 0.3278, 0.3577

# 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.



24.1603, 0.3104, 0.3550



24.1603, 0.2966, 0.2990



24.1603, 0.3423, 0.3574

# Square

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



24.1603, 0.2966, 0.2990



24.1603, 0.3445, 0.3317



24.1603, 0.3283, 0.3607



24.1603, 0.2819, 0.3249



# Rectangle

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



24.1603, 0.2966, 0.2990



24.1603, 0.3263, 0.3122



24.1603, 0.3283, 0.3607



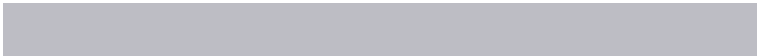
24.1603, 0.2987, 0.3467

# Sweetspot

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



24.1613, 0.2966, 0.2990



51.0470, 0.3075, 0.3192



28.7784, 0.2950, 0.3260



11.4348, 0.3066, 0.3175



76.7769, 0.3127, 0.3290



12.5967, 0.3127, 0.3290



# Same Dimension

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



24.1613, 0.2966, 0.2990



41.0892, 0.2931, 0.2926



24.9204, 0.3061, 0.2999



6.0578, 0.3005, 0.3061



2.0083, 0.1550, 0.0628



0.0376, 0.1773, 0.0750



# Inverse Universe

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



25.5235, 0.3162, 0.3037



43.9695, 0.3169, 0.2985



29.4186, 0.3187, 0.3585



6.3117, 0.3153, 0.3095



7.0665, 0.3506, 0.1705



0.1086, 0.3358, 0.1624



# Previews

## White Background



This preview shows how the Yxy color 24.1603, 0.2966, 0.2990 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 24.1603, 0.2966, 0.2990 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

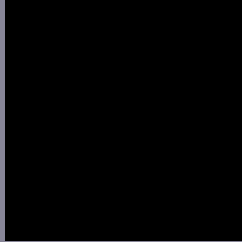
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

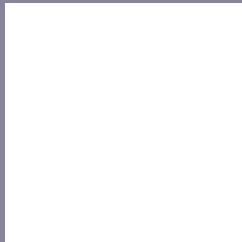
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 24.1603, 0.2966, 0.2990**

## Background



This preview shows how black text looks on a background with the Yxy color 24.1603, 0.2966, 0.2990.



This preview shows how white text looks on a background with the Yxy color 24.1603, 0.2966, 0.2990.

# 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

24.1603, 0.2966, 0.2990

### Protanopia

24.2227, 0.2925, 0.2988

### Deuteranopia

24.0424, 0.3020, 0.2961



## Tritanopia

24.1629, 0.3015, 0.3104

# Trichromacy



## Original Color

24.1603, 0.2966, 0.2990

## Protanomaly

24.3037, 0.2935, 0.2989

## Deuteranomaly

24.1402, 0.2998, 0.2976

## Tritanomaly

24.2251, 0.2995, 0.3071

# Monochromacy



## Original Color

24.1603, 0.2966, 0.2990

## Achromatopsia

24.6201, 0.3127, 0.3290

## Achromatomaly

24.4853, 0.3077, 0.3189

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.1603, 0.2966, 0.2990 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(135, 133, 151)` looks like.

```
.text, #text, p{  
    color:rgb(135, 133, 151)  
}
```

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(135, 133, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 133, 151) }
```

## Border

The CSS property to change the border of an element to Yxy 24.1603, 0.2966, 0.2990 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(135, 133, 151) }
```

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

```
.border{ border-color:rgb(135, 133, 151) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 133, 151)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 133, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 133, 151);  
box-shadow:4px 4px 4px 4px rgb(135, 133,  
151) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.1603, 0.2966, 0.2990 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 133, 151) }
```

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

```
.background{ background-color: rgb(135,  
133, 151) }
```

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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