

# Converting Colors

$Y_{xy}(16.7438, 0.2680, 0.3106)$

Have a look what the booklet for  
Yxy(16.7438, 0.2680, 0.3106)  
contains.

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# Color

**Yxy(16.8007, 0.2686, 0.3122)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	58777F
RGB	88, 119, 127
RGB Percent	35%, 47%, 50%
CMY	0.6548, 0.5334, 0.5020
CMYK	0.31, 0.06, 0.00, 0.50
HSL	192°, 18%, 42%
HSV	192°, 31%, 50%
XYZ	14.4544, 16.8007, 22.5588
YIQ	110.6430, -21.0440, -4.0840

# Conversions

## Conversions Part 2

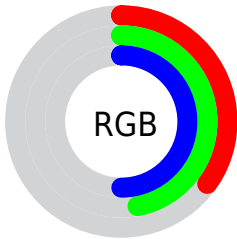
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	88, 105, 127
Decimal	5797759
CIE Lab	48.01, -9.01, -7.99
CIE LCh	48, 12.041, 221.548
Yxy	16.8007, 0.2686, 0.3122
Android (android.graphics.Color)	4283987839 (0xFF58777F)
YUV	110.6430, 8.0640, -19.8579
Hunter-Lab	40.9887, -8.7832, -3.9392

# Details

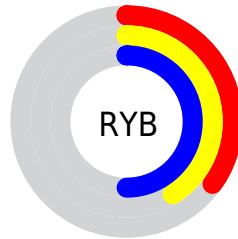
The Yxy color **16.8007, 0.2686, 0.3122** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **13.5899, 0.3733, 0.3451**, and the grayscale version is **15.7707, 0.3127, 0.3290**.

A 20% lighter version of the original color is **37.9101, 0.2785, 0.3157**, and **5.5077, 0.2496, 0.3052** is the 20% darker color. If you saturate the color by 10%, you get **15.6220, 0.2555, 0.3059**, and if you desaturate by 10%, it is **18.1058, 0.2825, 0.3181**.

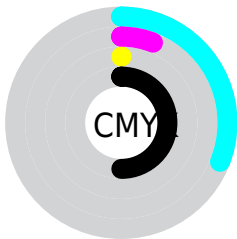
# Distribution



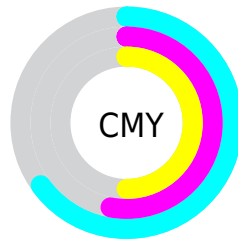
- Red (35%)
- Green (47%)
- Blue (50%)



- Red (35%)
- Yellow (41%)
- Blue (50%)



- Cyan (31%)
- Magenta (6%)
- Yellow (0%)
- Black (50%)



- Cyan (65%)
- Magenta (53%)
- Yellow (50%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 16.8007, 0.2686, 0.3122 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 16.8007, 0.2686, 0.3122 by changing the saturation by 10% instead.



■ 16.8007, 0.2686,  
0.3122

■ 16.8007, 0.2686,  
0.3122

■ 234.0212, 0.2941,  
0.3223

■ 10.0925, 0.2608,  
0.3088

■ 37.9828, 0.2789,  
0.3164

■ 5.4603, 0.2495,  
0.3038

■ 53.2255, 0.2824,  
0.3178

■ 2.5198, 0.2323,  
0.2956

■ 72.0818, 0.2852,  
0.3190

■ 0.8865, 0.1978,  
0.2816

■ 94.9361, 0.2876,  
0.3199

■ 0.0000, 0.0000,  
0.0000

■ 122.1728, 0.2896,  
0.3207

154.1763, 0.2913,

0.3213

191.3310, 0.2928,  
0.3219

■ 16.8007, 0.2686,  
0.3122

■ 16.8007, 0.2686,  
0.3122

■ 15.6220, 0.2555,  
0.3059

■ 18.1058, 0.2825,  
0.3181

■ 14.5619, 0.2434,  
0.2992

■ 19.5406, 0.2970,  
0.3236

■ 13.6148, 0.2328,  
0.2922

■ 21.1108, 0.3117,  
0.3287

■ 12.7740, 0.2237,  
0.2850

■ 22.8210, 0.3265,  
0.3332

■ 12.0316, 0.2163,  
0.2778

■ 24.6758, 0.3411,  
0.3373

■ 11.3785, 0.2108,  
0.2706

■ 26.6793, 0.3553,  
0.3410

■ 10.8228, 0.2066,  
0.2638

■ 28.8356, 0.3692,  
0.3442

■ 31.1487, 0.3825,  
0.3470

■ 33.6223, 0.3952,  
0.3495

# Harmonies

## Analogous

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



16.8007, 0.2783, 0.3338



16.8007, 0.2686, 0.3122



16.8007, 0.2701, 0.2963

# Triad

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



16.8007, 0.2686, 0.3122



16.8007, 0.3274, 0.3050



16.8007, 0.3427, 0.3702

# Complementary

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



16.8007, 0.2686, 0.3122



13.5899, 0.3733, 0.3451

# 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.



16.8007, 0.3569, 0.3604



16.8007, 0.2686, 0.3122



16.8007, 0.3480, 0.3229

# Square

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



16.8007, 0.2686, 0.3122



16.8007, 0.3033, 0.2930



16.8007, 0.3590, 0.3430



16.8007, 0.3207, 0.3685



# Rectangle

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



16.8007, 0.2686, 0.3122



16.8007, 0.2773, 0.2908



16.8007, 0.3590, 0.3430



16.8007, 0.3486, 0.3680

# Sweetspot

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



16.8014, 0.2686, 0.3122



35.3903, 0.2991, 0.3244



18.0961, 0.3008, 0.3967



8.2062, 0.2973, 0.3238



65.5931, 0.3127, 0.3290



8.8982, 0.3127, 0.3290



# Same Dimension

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



16.8014, 0.2686, 0.3122



28.5452, 0.2591, 0.3077



12.6704, 0.2640, 0.2700



4.7416, 0.2993, 0.3245



10.9135, 0.2066, 0.2638



0.0000, 0.0000, 0.0000



# Inverse Universe

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



12.8291, 0.3278, 0.2700



20.3709, 0.3323, 0.2561



17.5493, 0.3628, 0.3817



4.3978, 0.3166, 0.3120



5.4962, 0.3787, 0.1860



0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the Yxy color 16.8007, 0.2686, 0.3122 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 × Fail



# Black Background



This preview shows how the Yxy color 16.8007, 0.2686, 0.3122 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

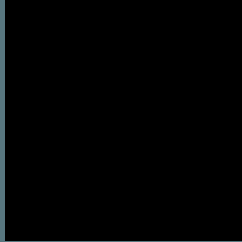
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 16.8007, 0.2686, 0.3122**

## **Background**



This preview shows how black text looks on a background with the Yxy color 16.8007, 0.2686, 0.3122.



This preview shows how white text looks on a background with the Yxy color 16.8007, 0.2686, 0.3122.

# 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

16.8007, 0.2686, 0.3122

### Protanopia

16.7510, 0.3008, 0.3093

### Deuteranopia

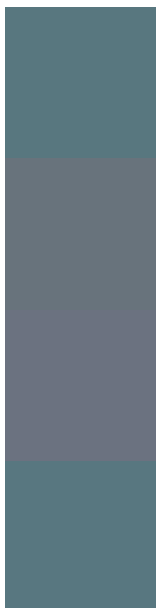
16.8054, 0.3001, 0.2947



## Tritanopia

16.8269, 0.2676, 0.3102

# Trichromacy



## Original Color

16.8007, 0.2686, 0.3122

## Protanomaly

16.6598, 0.2887, 0.3108

## Deuteranomaly

16.7189, 0.2879, 0.3012

## Tritanomaly

16.8269, 0.2676, 0.3102

# Monochromacy



## Original Color

16.8007, 0.2686, 0.3122

## Achromatopsia

15.8961, 0.3127, 0.3290

## Achromatomaly

16.2025, 0.2953, 0.3228

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 16.8007, 0.2686, 0.3122 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(88, 119, 127) looks like.

```
.text, #text, p{  
  color:rgb(88, 119, 127)  
}
```

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(88, 119, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(88, 119, 127) }
```

## Border

The CSS property to change the border of an element to Yxy 16.8007, 0.2686, 0.3122 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(88, 119, 127) }
```

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

```
.border{ border-color:rgb(88, 119, 127) }
```

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

Here you see how a box with a 4 pixel rgb(88, 119, 127) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(88, 119, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(88, 119, 127);  
box-shadow:4px 4px 4px 4px rgb(88, 119,  
127) }
```



# Background

The CSS property to change the background color of an element to Yxy 16.8007, 0.2686, 0.3122 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(88, 119, 127) }
```

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

```
.background{ background-color: rgb(88, 119,  
127) }
```

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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