

# Converting Colors

$Y_{xy}(16.9367, 0.3095, 0.2669)$

Have a look what the booklet for  
Yxy(16.9367, 0.3095, 0.2669)  
contains.

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# Color

**Yxy(16.9450, 0.3090, 0.2662)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	87688C
RGB	135, 104, 140
RGB Percent	53%, 41%, 55%
CMY	0.4708, 0.5921, 0.4510
CMYK	0.04, 0.26, 0.00, 0.45
HSL	292°, 15%, 48%
HSV	292°, 26%, 55%
XYZ	19.6694, 16.9450, 27.0407
YIQ	117.3730, 6.9200, 17.7680

# Conversions

## Conversions Part 2

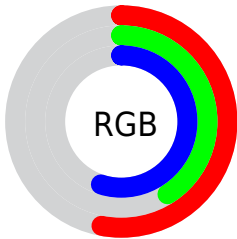
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	135, 104, 140
Decimal	8874124
CIE <sub>Lab</sub>	48.19, 19.06, -15.04
CIE <sub>LCh</sub>	48, 24.282, 321.729
Yxy	16.9450, 0.3090, 0.2662
Android (android.graphics.Color)	4287064204 (0xFF87688C)
YUV	117.3730, 11.1551, 15.4589
Hunter-Lab	41.1643, 13.2547, -10.1324

# Details

The Yxy color  $16.9450, 0.3090, 0.2662$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $23.0080, 0.3148, 0.3982$ , and the grayscale version is  $17.8735, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $38.1565, 0.3103, 0.2790$ , and  $5.4978, 0.3064, 0.2404$  is the 20% darker color. If you saturate the color by 10%, you get  $14.1958, 0.3069, 0.2412$ , and if you desaturate by 10%, it is  $20.1665, 0.3107, 0.2912$ .

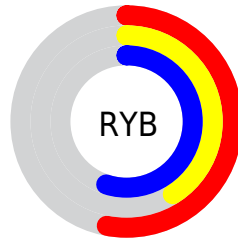
# Distribution



Red (53%)

Green (41%)

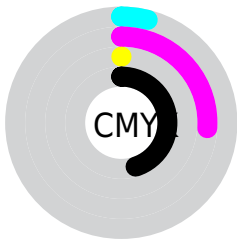
Blue (55%)



Red (53%)

Yellow (41%)

Blue (55%)

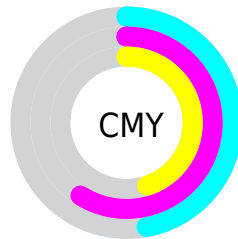


Cyan (4%)

Magenta (26%)

Yellow (0%)

Black (45%)



Cyan (47%)

Magenta (59%)


Yellow (45%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 16.9450, 0.3090, 0.2662 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 16.9450, 0.3090, 0.2662 by changing the saturation by 10% instead.





 16.9450, 0.3090,  
0.2662


 16.9450, 0.3090,  
0.2662


234.8552, 0.3117,  
0.3013


 10.1953, 0.3079,  
0.2560


 38.2312, 0.3103,  
0.2800


 5.5286, 0.3060,  
0.2419


 53.5364, 0.3107,  
0.2848

 2.5606, 0.3028,  
0.2211

 72.4623, 0.3110,  
0.2888

 0.9069, 0.2959,  
0.1881

 95.3933, 0.3112,  
0.2921

 0.0000, 0.2481,  
0.0000

122.7136, 0.3114,  
0.2949

 0.0000, 0.0000,  
0.0000

154.8078, 0.3115,

0.2974

192.0602, 0.3116,  
0.2995

■ 16.9450, 0.3090,  
0.2662

■ 16.9450, 0.3090,  
0.2662

■ 14.1958, 0.3069,  
0.2412

■ 20.1665, 0.3107,  
0.2912

■ 11.8937, 0.3045,  
0.2170

■ 23.8797, 0.3121,  
0.3156

■ 10.0144, 0.3016,  
0.1946

■ 28.1055, 0.3131,  
0.3389

■ 8.5303, 0.2985,  
0.1749

■ 32.8629, 0.3139,  
0.3607

■ 7.4106, 0.2952,  
0.1587

■ 38.1699, 0.3145,  
0.3810

6.6200, 0.2917,  
0.1465

44.0437, 0.3148,  
0.3996

6.1061, 0.2881,  
0.1383

50.5009, 0.3150,  
0.4166

5.9143, 0.2866,  
0.1352

57.5571, 0.3151,  
0.4320

65.2276, 0.3151,  
0.4459

# Harmonies

## Analogous

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



16.9450, 0.2651, 0.2534



16.9450, 0.3090, 0.2662



16.9450, 0.3573, 0.2928

# Triad

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



16.9450, 0.3090, 0.2662



16.9450, 0.3933, 0.3985



16.9450, 0.2366, 0.3213

# Complementary

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



16.9450, 0.3090, 0.2662



23.0080, 0.3148, 0.3982

# 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.



16.9450, 0.2668, 0.3686



16.9450, 0.3090, 0.2662



16.9450, 0.3571, 0.4149

# Square

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



16.9450, 0.3090, 0.2662



16.9450, 0.4078, 0.3661



16.9450, 0.3107, 0.4049



16.9450, 0.2259, 0.2811



# Rectangle

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



16.9450, 0.3090, 0.2662



16.9450, 0.3844, 0.3158



16.9450, 0.3107, 0.4049



16.9450, 0.2447, 0.3370

# Sweetspot

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



16.9457, 0.3090, 0.2662



40.4033, 0.3118, 0.3096



15.8645, 0.2712, 0.2696



9.0973, 0.3116, 0.3063



71.0566, 0.3127, 0.3290



10.6539, 0.3127, 0.3290



# Same Dimension

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



16.9457, 0.3090, 0.2662



26.8926, 0.3078, 0.2512



17.0228, 0.3320, 0.2880



5.0941, 0.3116, 0.3073



5.2623, 0.2867, 0.1353



0.0395, 0.3045, 0.1451



# Inverse Universe

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



16.5854, 0.3575, 0.3200



26.1654, 0.3718, 0.3178



22.9729, 0.2975, 0.3740



5.0593, 0.3260, 0.3260



4.9996, 0.6165, 0.3170

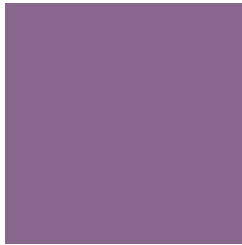


0.0345, 0.5385, 0.2740



# Previews

## White Background



This preview shows how the Yxy color 16.9450, 0.3090, 0.2662 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

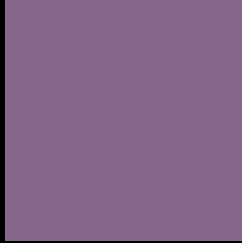
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 16.9450, 0.3090, 0.2662 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

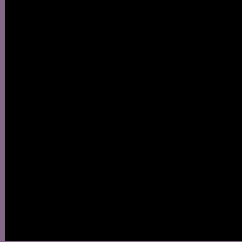
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 16.9450, 0.3090, 0.2662**

## Background



This preview shows how black text looks on a background with the Yxy color 16.9450, 0.3090, 0.2662.



This preview shows how white text looks on a background with the Yxy color 16.9450, 0.3090, 0.2662.

# 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

16.9450, 0.3090, 0.2662

### Protanopia

16.9810, 0.2671, 0.2650

### Deuteranopia

17.0007, 0.2852, 0.2799



## Tritanopia

16.9150, 0.3341, 0.3124

# Trichromacy



## Original Color

16.9450, 0.3090, 0.2662

## Protanomaly

16.9474, 0.2822, 0.2665

## Deuteranomaly

16.9389, 0.2936, 0.2739

## Tritanomaly

16.9826, 0.3251, 0.2963

# Monochromacy



## Original Color

16.9450, 0.3090, 0.2662

## Achromatopsia

17.7888, 0.3127, 0.3290

## Achromatomaly

17.3541, 0.3126, 0.3046

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 16.9450, 0.3090, 0.2662 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, 104, 140)` looks like.

```
.text, #text, p{  
    color:rgb(135, 104, 140)  
}
```

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, 104, 140) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 104, 140) }
```

## Border

The CSS property to change the border of an element to Yxy 16.9450, 0.3090, 0.2662 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, 104, 140) }
```

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

```
.border{ border-color:rgb(135, 104, 140) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 104, 140)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 104, 140); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 104, 140);  
box-shadow:4px 4px 4px 4px rgb(135, 104,  
140) }
```



# Background

The CSS property to change the background color of an element to Yxy 16.9450, 0.3090, 0.2662 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 104, 140) }
```

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

```
.background{ background-color: rgb(135,  
104, 140) }
```

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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