

# Converting Colors

$Y_{xy}(20.0282, 0.3051, 0.2822)$

Have a look what the booklet for  
Yxy(20.0282, 0.3051, 0.2822)  
contains.

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# Color

**Yxy(19.9704, 0.3051, 0.2828)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	887590
RGB	136, 117, 144
RGB Percent	53%, 46%, 56%
CMY	0.4668, 0.5411, 0.4353
CMYK	0.06, 0.19, 0.00, 0.44
HSL	282°, 11%, 51%
HSV	282°, 19%, 56%
XYZ	21.5452, 19.9704, 29.1011
YIQ	125.7590, 2.6570, 12.4250

# Conversions

## Conversions Part 2

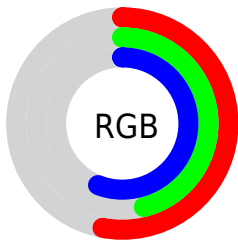
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	136, 117, 144
Decimal	8942992
CIE Lab	51.80, 12.61, -11.93
CIE LCh	52, 17.354, 316.591
Yxy	19.9704, 0.3051, 0.2828
Android (android.graphics.Color)	4287133072 (0xFF887590)
YUV	125.7590, 8.9928, 8.9814
Hunter-Lab	44.6883, 7.8542, -7.3281

# Details

The Yxy color  $19.9704, 0.3051, 0.2828$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $25.5908, 0.3189, 0.3771$ , and the grayscale version is  $20.7458, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $43.2720, 0.3065, 0.2923$ , and  $7.0428, 0.3007, 0.2652$  is the 20% darker color. If you saturate the color by 10%, you get  $16.5185, 0.3000, 0.2566$ , and if you desaturate by 10%, it is  $23.9545, 0.3095, 0.3081$ .

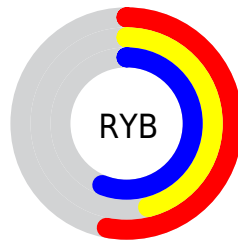
# Distribution



Red (53%)

Green (46%)

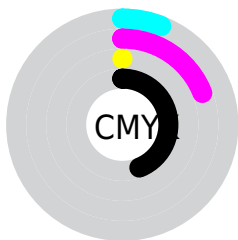
Blue (56%)



Red (53%)

Yellow (46%)

Blue (56%)

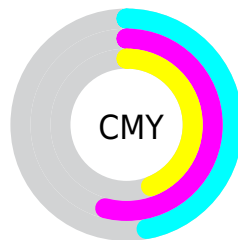


Cyan (6%)

Magenta (19%)

Yellow (0%)

Black (44%)



Cyan (47%)

Magenta (54%)

Yellow (44%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.9704, 0.3051, 0.2828 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 19.9704, 0.3051, 0.2828 by changing the saturation by 10% instead.



■ 19.9704, 0.3051,  
0.2828

■ 19.9704, 0.3051,  
0.2828

251.7548, 0.3097,  
0.3084

■ 12.3735, 0.3036,  
0.2754

■ 43.3676, 0.3070,  
0.2928

■ 6.9986, 0.3014,  
0.2653

■ 59.9366, 0.3077,  
0.2963

■ 3.4612, 0.2978,  
0.2506

■ 80.2652, 0.3082,  
0.2992

■ 1.3770, 0.2914,  
0.2271

104.7377, 0.3086,  
0.3016

■ 0.1997, 0.2841,  
0.1140

133.7385, 0.3089,  
0.3037

■ 0.0000, 0.0000,  
0.0000

167.6521, 0.3092,

0.3055

206.8627, 0.3095,  
0.3070

■ 19.9704, 0.3051,  
0.2828

■ 19.9704, 0.3051,  
0.2828

■ 16.5185, 0.3000,  
0.2566

■ 23.9545, 0.3095,  
0.3081

■ 13.5725, 0.2941,  
0.2300

■ 28.4904, 0.3131,  
0.3319

■ 11.1078, 0.2875,  
0.2039

■ 33.5998, 0.3162,  
0.3541

■ 9.0966, 0.2803,  
0.1794

■ 39.3025, 0.3186,  
0.3745

■ 7.5083, 0.2726,  
0.1576

■ 45.6174, 0.3206,  
0.3931

6.3083, 0.2648,  
0.1394

52.5625, 0.3222,  
0.4099

5.4565, 0.2569,  
0.1255

60.1549, 0.3234,  
0.4251

4.8632, 0.2493,  
0.1154

68.4113, 0.3244,  
0.4388

4.7923, 0.2483,  
0.1142

77.3477, 0.3251,  
0.4511

# Harmonies

## Analogous

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



19.9704, 0.2760, 0.2761



19.9704, 0.3051, 0.2828



19.9704, 0.3378, 0.3003

# Triad

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



19.9704, 0.3051, 0.2828



19.9704, 0.3706, 0.3742



19.9704, 0.2631, 0.3300

# Complementary

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



19.9704, 0.3051, 0.2828



25.5908, 0.3189, 0.3771

# 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.



19.9704, 0.2865, 0.3603



19.9704, 0.3051, 0.2828



19.9704, 0.3486, 0.3861

# Square

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



19.9704, 0.3051, 0.2828



19.9704, 0.3767, 0.3515



19.9704, 0.3177, 0.3815



19.9704, 0.2527, 0.3013



# Rectangle

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



19.9704, 0.3051, 0.2828



19.9704, 0.3569, 0.3162



19.9704, 0.3177, 0.3815



19.9704, 0.2696, 0.3404

# Sweetspot

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



19.9713, 0.3051, 0.2828



44.2508, 0.3105, 0.3145



20.4904, 0.2837, 0.2948



10.0475, 0.3103, 0.3131



72.9347, 0.3127, 0.3290



11.2805, 0.3127, 0.3290



# Same Dimension

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



19.9713, 0.3051, 0.2828



32.8593, 0.3033, 0.2731



20.5065, 0.3211, 0.2928



5.4317, 0.3093, 0.3070



4.1862, 0.2487, 0.1144



0.0515, 0.2840, 0.1338



# Inverse Universe

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



20.1356, 0.3377, 0.3153



33.2157, 0.3439, 0.3124



25.1422, 0.3053, 0.3682



5.4488, 0.3238, 0.3225



5.3176, 0.5709, 0.2919



0.0543, 0.4652, 0.2336



# Previews

## White Background



This preview shows how the Yxy color 19.9704, 0.3051, 0.2828 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

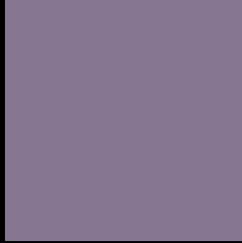
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 19.9704, 0.3051, 0.2828 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

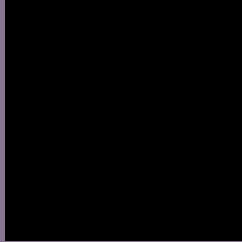
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 19.9704, 0.3051, 0.2828**

## Background



This preview shows how black text looks on a background with the Yxy color 19.9704, 0.3051, 0.2828.



This preview shows how white text looks on a background with the Yxy color 19.9704, 0.3051, 0.2828.

# 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

19.9704, 0.3051, 0.2828

### Protanopia

20.1556, 0.2806, 0.2842

### Deuteranopia

20.0935, 0.2944, 0.2900



## Tritanopia

20.0863, 0.3197, 0.3131

# Trichromacy



## Original Color

19.9704, 0.3051, 0.2828

## Protanomaly

20.1413, 0.2891, 0.2832

## Deuteranomaly

20.1619, 0.2991, 0.2888

## Tritanomaly

20.0658, 0.3152, 0.3027

# Monochromacy



## Original Color

19.9704, 0.3051, 0.2828

## Achromatopsia

20.8637, 0.3127, 0.3290

## Achromatomaly

20.6052, 0.3099, 0.3112

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.9704, 0.3051, 0.2828 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(136, 117, 144)` looks like.

```
.text, #text, p{  
    color:rgb(136, 117, 144)  
}
```

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(136, 117, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 117, 144) }
```

## Border

The CSS property to change the border of an element to Yxy 19.9704, 0.3051, 0.2828 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(136, 117, 144) }
```

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

```
.border{ border-color:rgb(136, 117, 144) }
```

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

Here you see how a box with a 4 pixel `rgb(136, 117, 144)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 117, 144); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 117, 144);  
box-shadow:4px 4px 4px 4px rgb(136, 117,  
144) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.9704, 0.3051, 0.2828 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 117, 144) }
```

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

```
.background{ background-color: rgb(136,  
117, 144) }
```

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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