

# Converting Colors

$Y_{xy}(18.7696, 0.2683, 0.2355)$

Have a look what the booklet for  
Yxy(18.7696, 0.2683, 0.2355)  
contains.

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# Color

**Yxy(18.8511, 0.2688, 0.2360)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7E70A8
RGB	126, 112, 168
RGB Percent	49%, 44%, 66%
CMY	0.5057, 0.5608, 0.3412
CMYK	0.25, 0.33, 0.00, 0.34
HSL	255°, 24%, 55%
HSV	255°, 33%, 66%
XYZ	21.4711, 18.8511, 39.5554
YIQ	122.5700, -9.6320, 20.3840

# Conversions

## Conversions Part 2

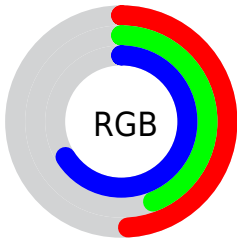
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	126, 112, 168
Decimal	8286376
CIE Lab	50.51, 17.82, -28.03
CIE LCh	51, 33.217, 302.450
Yxy	18.8511, 0.2688, 0.2360
Android (android.graphics.Color)	4286476456 (0xFF7E70A8)
YUV	122.5700, 22.3970, 3.0081
Hunter-Lab	43.4179, 12.2909, -23.6230

# Details

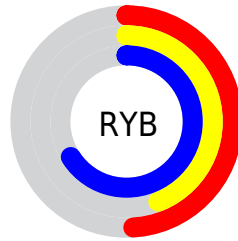
The Yxy color  $18.8511, 0.2688, 0.2360$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $36.0422, 0.3477, 0.4144$ , and the grayscale version is  $19.5878, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $41.5819, 0.2796, 0.2560$ , and  $6.4236, 0.2491, 0.2029$  is the 20% darker color. If you saturate the color by 10%, you get  $14.5867, 0.2522, 0.2039$ , and if you desaturate by 10%, it is  $23.9291, 0.2839, 0.2667$ .

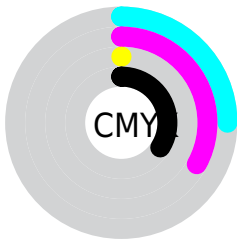
# Distribution



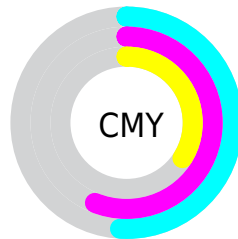
- Red (49%)
- Green (44%)
- Blue (66%)



- Red (49%)
- Yellow (44%)
- Blue (66%)



- Cyan (25%)
- Magenta (33%)
- Yellow (0%)
- Black (34%)




- Cyan (51%)
- Magenta (56%)
- Yellow (34%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 18.8511, 0.2688, 0.2360 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 18.8511, 0.2688, 0.2360 by changing the saturation by 10% instead.





 18.8511, 0.2688,  
0.2360


 18.8511, 0.2688,  
0.2360


245.6255, 0.2943,  
0.2863


 11.5627, 0.2611,  
0.2222


 41.4823, 0.2790,  
0.2552


 6.4467, 0.2503,  
0.2039


 57.5940, 0.2826,  
0.2621

 3.1185, 0.2342,  
0.1786

 77.4156, 0.2854,  
0.2679

 1.1939, 0.2086,  
0.1421

 101.3314, 0.2878,  
0.2727

 0.0567, 0.1630,  
0.0189

129.7259, 0.2898,  
0.2769

 0.0000, 0.0000,  
0.0000

162.9835, 0.2915,

0.2805

201.4886, 0.2930,  
0.2836

■ 18.8511, 0.2688,  
0.2360

■ 18.8511, 0.2688,  
0.2360

■ 14.5867, 0.2522,  
0.2039

■ 23.9291, 0.2839,  
0.2667

■ 11.0906, 0.2347,  
0.1715

■ 29.8583, 0.2974,  
0.2951

■ 8.3165, 0.2169,  
0.1407

■ 36.6765, 0.3091,  
0.3210

■ 6.2121, 0.1998,  
0.1133

■ 44.4187, 0.3193,  
0.3441

■ 4.7178, 0.1845,  
0.0912

■ 53.1179, 0.3280,  
0.3646

■ 3.7627, 0.1719,  
0.0758

■ 62.8054, 0.3354,  
0.3827

■ 3.3229, 0.1652,  
0.0683

■ 73.5112, 0.3417,  
0.3985

■ 85.2641, 0.3470,  
0.4125

■ 92.7522, 0.3536,  
0.4176

# Harmonies

## Analogous

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



18.8511, 0.2244, 0.2326



18.8511, 0.2688, 0.2360



18.8511, 0.3300, 0.2589

# Triad

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



18.8511, 0.2688, 0.2360



18.8511, 0.4345, 0.3908



18.8511, 0.2358, 0.3588

# Complementary

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



18.8511, 0.2688, 0.2360



36.0422, 0.3477, 0.4144

# 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.



18.8511, 0.2868, 0.4177



18.8511, 0.2688, 0.2360



18.8511, 0.4024, 0.4297

# Square

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



18.8511, 0.2688, 0.2360



18.8511, 0.4316, 0.3432



18.8511, 0.3479, 0.4437



18.8511, 0.2067, 0.2961



# Rectangle

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



18.8511, 0.2688, 0.2360



18.8511, 0.3726, 0.2829



18.8511, 0.3479, 0.4437



18.8511, 0.2508, 0.3805

# Sweetspot

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



18.8518, 0.2688, 0.2360



57.9096, 0.3013, 0.3036



29.3830, 0.2634, 0.3058



12.2715, 0.2996, 0.3000



84.8088, 0.3127, 0.3290



15.4872, 0.3127, 0.3290



# Same Dimension

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



18.8518, 0.2688, 0.2360



28.3489, 0.2567, 0.2123



21.2831, 0.3002, 0.2439



7.3881, 0.3024, 0.3059



2.5303, 0.1660, 0.0688



0.0850, 0.2008, 0.0880



# Inverse Universe

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



22.2425, 0.3330, 0.2667



35.5400, 0.3389, 0.2530



33.6121, 0.3207, 0.4222



7.6340, 0.3174, 0.3122



7.4297, 0.3951, 0.1950



0.1883, 0.3660, 0.1790



# Previews

## White Background



This preview shows how the Yxy color 18.8511, 0.2688, 0.2360 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 18.8511, 0.2688, 0.2360 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

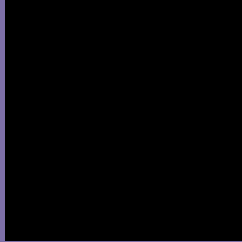
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 18.8511, 0.2688, 0.2360**

## Background



This preview shows how black text looks on a background with the Yxy color 18.8511, 0.2688, 0.2360.



This preview shows how white text looks on a background with the Yxy color 18.8511, 0.2688, 0.2360.

# 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

18.8511, 0.2688, 0.2360

### Protanopia

18.8576, 0.2433, 0.2339

### Deuteranopia

18.9869, 0.2500, 0.2447



## Tritanopia

18.9399, 0.3013, 0.3121

# Trichromacy



## Original Color

18.8511, 0.2688, 0.2360

## Protanomaly

18.8106, 0.2517, 0.2350

## Deuteranomaly

18.7915, 0.2570, 0.2411

## Tritanomaly

18.8433, 0.2896, 0.2821

# Monochromacy



## Original Color

18.8511, 0.2688, 0.2360

## Achromatopsia

19.8069, 0.3127, 0.3290

## Achromatomaly

19.3428, 0.2963, 0.2929

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 18.8511, 0.2688, 0.2360 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(126, 112, 168)` looks like.

```
.text, #text, p{  
    color:rgb(126, 112, 168)  
}
```

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(126, 112, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(126, 112, 168) }
```

## Border

The CSS property to change the border of an element to Yxy 18.8511, 0.2688, 0.2360 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(126, 112, 168) }
```

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

```
.border{ border-color:rgb(126, 112, 168) }
```

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

Here you see how a box with a 4 pixel rgb(126, 112, 168) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(126, 112, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(126, 112, 168);  
box-shadow:4px 4px 4px 4px rgb(126, 112,  
168) }
```



# Background

The CSS property to change the background color of an element to Yxy 18.8511, 0.2688, 0.2360 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(126, 112, 168) }
```

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

```
.background{ background-color: rgb(126,  
112, 168) }
```

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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