

# Converting Colors

$Y_{xy}(15.6789, 0.2827, 0.2207)$

Have a look what the booklet for  
Yxy(15.6789, 0.2827, 0.2207)  
contains.

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**Color**

**Yxy(15.7090, 0.2830, 0.2211)**

# Conversions

## Conversions Part 1

Format	Color
Hex	855FA0
RGB	133, 95, 160
RGB Percent	52%, 37%, 63%
CMY	0.4786, 0.6274, 0.3725
CMYK	0.17, 0.41, 0.00, 0.37
HSL	275°, 25%, 50%
HSV	275°, 41%, 63%
XYZ	20.1070, 15.7090, 35.2333
YIQ	113.7720, 1.7830, 28.2710

# Conversions

## Conversions Part 2

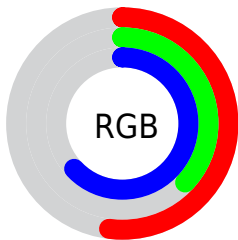
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	133, 95, 160
Decimal	8740768
CIE <sub>Lab</sub>	46.59, 28.14, -29.39
CIE <sub>LCh</sub>	47, 40.691, 313.750
Yxy	15.7090, 0.2830, 0.2211
Android (android.graphics.Color)	4286930848 (0xFF855FA0)
YUV	113.7720, 22.7904, 16.8630
Hunter-Lab	39.6346, 21.1940, -24.9619

# Details

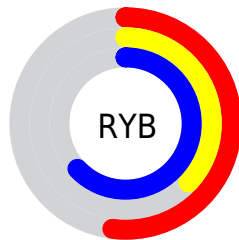
The Yxy color **15.7090, 0.2830, 0.2211** is a dark color, and the websafe version is hex **996699**. A complement of this color would be **30.1123, 0.3323, 0.4413**, and the grayscale version is **16.6856, 0.3127, 0.3290**.

A 20% lighter version of the original color is **36.0289, 0.2907, 0.2434**, and **4.9905, 0.2682, 0.1848** is the 20% darker color. If you saturate the color by 10%, you get **12.5919, 0.2732, 0.1933**, and if you desaturate by 10%, it is **19.4538, 0.2919, 0.2492**.

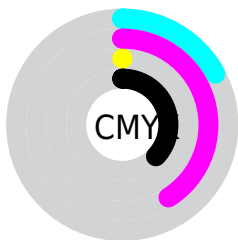
# Distribution



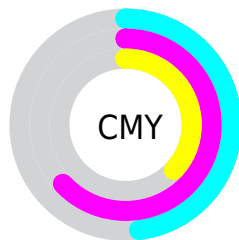
- Red (52%)
- Green (37%)
- Blue (63%)



- Red (52%)
- Yellow (37%)
- Blue (63%)



- Cyan (17%)
- Magenta (41%)
- Yellow (0%)
- Black (37%)




- Cyan (48%)
- Magenta (63%)
- Yellow (37%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 15.7090, 0.2830, 0.2211 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 15.7090, 0.2830, 0.2211 by changing the saturation by 10% instead.




 15.7090, 0.2830,  
0.2211


 15.7090, 0.2830,  
0.2211


227.6184, 0.3016,  
0.2798


 9.3185, 0.2768,  
0.2050


 36.0923, 0.2908,  
0.2435


 4.9495, 0.2676,  
0.1836


 50.8538, 0.2934,  
0.2516

 2.2177, 0.2532,  
0.1541

 69.1745, 0.2955,  
0.2584

 0.7296, 0.2286,  
0.1109

 91.4386, 0.2972,  
0.2640

 0.0000, 0.1530,  
0.0000

118.0307, 0.2986,  
0.2688

 0.0000, 0.0000,  
0.0000

149.3351, 0.2997,

0.2730

185.7362, 0.3007,  
0.2766

■ 15.7090, 0.2830,  
0.2211

■ 15.7090, 0.2830,  
0.2211

■ 12.5919, 0.2732,  
0.1933

■ 19.4538, 0.2919,  
0.2492

■ 10.0634, 0.2626,  
0.1670

■ 23.8585, 0.2998,  
0.2768

■ 8.0831, 0.2516,  
0.1435

■ 28.9551, 0.3066,  
0.3030

■ 6.6042, 0.2406,  
0.1239

■ 34.7731, 0.3124,  
0.3275

■ 5.5718, 0.2300,  
0.1092

■ 41.3402, 0.3173,  
0.3501

■ 4.8886, 0.2206,  
0.0989

■ 48.6827, 0.3213,  
0.3707

■ 56.8255, 0.3247,  
0.3894

■ 65.7924, 0.3274,  
0.4061

■ 75.6062, 0.3297,  
0.4212

# Harmonies

## Analogous

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



15.7090, 0.2186, 0.2069



15.7090, 0.2830, 0.2211



15.7090, 0.3659, 0.2566

# Triad

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



15.7090, 0.2830, 0.2211



15.7090, 0.4562, 0.4240



15.7090, 0.1970, 0.3334

# Complementary

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



15.7090, 0.2830, 0.2211



30.1123, 0.3323, 0.4413

# 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.



15.7090, 0.2504, 0.4213



15.7090, 0.2830, 0.2211



15.7090, 0.4001, 0.4697

# Square

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



15.7090, 0.2830, 0.2211



15.7090, 0.4737, 0.3655



15.7090, 0.3249, 0.4756



15.7090, 0.1745, 0.2594



# Rectangle

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



15.7090, 0.2830, 0.2211



15.7090, 0.4186, 0.2892



15.7090, 0.3249, 0.4756



15.7090, 0.2116, 0.3631

# Sweetspot

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



15.7096, 0.2830, 0.2211



50.9885, 0.3056, 0.2989



18.9147, 0.2474, 0.2594



10.9307, 0.3048, 0.2958



80.7346, 0.3127, 0.3290



13.9985, 0.3127, 0.3290



# Same Dimension

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



15.7096, 0.2830, 0.2211



23.2075, 0.2738, 0.1951



18.0145, 0.3241, 0.2386



6.6169, 0.3074, 0.3065



3.8340, 0.2215, 0.0994



0.0930, 0.2621, 0.1218



# Inverse Universe

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



17.0681, 0.3701, 0.2857



26.1890, 0.3901, 0.2762



28.5065, 0.3029, 0.4402



6.6896, 0.3222, 0.3197



6.1418, 0.5263, 0.2673

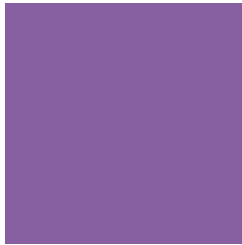


0.1180, 0.4322, 0.2154



# Previews

## White Background



This preview shows how the Yxy color 15.7090, 0.2830, 0.2211 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 15.7090, 0.2830, 0.2211 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

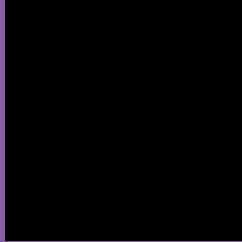
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 15.7090, 0.2830, 0.2211**

## **Background**



This preview shows how black text looks on a background with the Yxy color 15.7090, 0.2830, 0.2211.



This preview shows how white text looks on a background with the Yxy color 15.7090, 0.2830, 0.2211.

# 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

15.7090, 0.2830, 0.2211

### Protanopia

15.9523, 0.2291, 0.2170

### Deuteranopia

15.9133, 0.2443, 0.2404



## Tritanopia

15.6554, 0.3303, 0.3136

# Trichromacy



## Original Color

15.7090, 0.2830, 0.2211

## Protanomaly

15.6337, 0.2452, 0.2174

## Deuteranomaly

15.7599, 0.2574, 0.2330

## Tritanomaly

15.5083, 0.3125, 0.2756

# Monochromacy



## Original Color

15.7090, 0.2830, 0.2211

## Achromatopsia

16.8269, 0.3127, 0.3290

## Achromatomaly

16.2190, 0.3016, 0.2838

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 15.7090, 0.2830, 0.2211 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(133, 95, 160)` looks like.

```
.text, #text, p{  
    color:rgb(133, 95, 160)  
}
```

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(133, 95, 160) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 95, 160) }
```

## Border

The CSS property to change the border of an element to Yxy 15.7090, 0.2830, 0.2211 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(133, 95, 160) }
```

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

```
.border{ border-color:rgb(133, 95, 160) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 95, 160)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 95, 160); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 95, 160);  
box-shadow:4px 4px 4px 4px rgb(133, 95,  
160) }
```



# Background

The CSS property to change the background color of an element to Yxy 15.7090, 0.2830, 0.2211 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 95, 160) }
```

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

```
.background{ background-color: rgb(133, 95,  
160) }
```

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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