

# Converting Colors

$Y_{xy}(17.7000, 0.2492, 0.2270)$

Have a look what the booklet for  
Yxy(17.7000, 0.2492, 0.2270)  
contains.

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# Color

**Yxy(17.7798, 0.2488, 0.2275)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6D70AB
RGB	109, 112, 171
RGB Percent	43%, 44%, 67%
CMY	0.5728, 0.5607, 0.3295
CMYK	0.36, 0.34, 0.00, 0.33
HSL	237°, 27%, 55%
HSV	237°, 36%, 67%
XYZ	19.4445, 17.7798, 40.9287
YIQ	117.8290, -20.7270, 17.7130

# Conversions

## Conversions Part 2

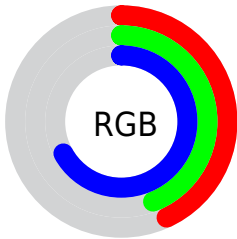
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	109, 112, 171
Decimal	7172267
CIE Lab	49.23, 13.46, -31.88
CIE LCh	49, 34.603, 292.892
Yxy	17.7798, 0.2488, 0.2275
Android (android.graphics.Color)	4285362347 (0xFF6D70AB)
YUV	117.8290, 26.2133, -7.7430
Hunter-Lab	42.1661, 8.5227, -28.0338

# Details

The Yxy color **17.7798, 0.2488, 0.2275** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **37.7279, 0.3676, 0.4136**, and the grayscale version is **17.9795, 0.3127, 0.3290**.

A 20% lighter version of the original color is **39.7784, 0.2628, 0.2487**, and **5.8743, 0.2235, 0.1918** is the 20% darker color. If you saturate the color by 10%, you get **13.5316, 0.2281, 0.1940**, and if you desaturate by 10%, it is **22.8873, 0.2686, 0.2592**.

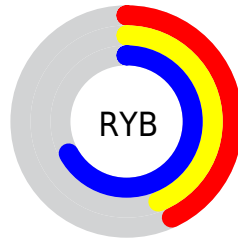
# Distribution



Red (43%)

Green (44%)

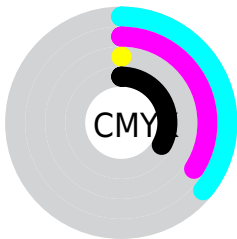
Blue (67%)



Red (43%)

Yellow (44%)

Blue (67%)

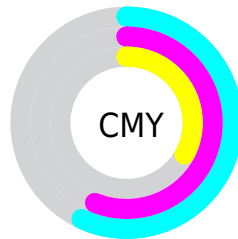


Cyan (36%)

Magenta (34%)

Yellow (0%)

Black (33%)



Cyan (57%)

Magenta (56%)

Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 17.7798, 0.2488, 0.2275 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 17.7798, 0.2488, 0.2275 by changing the saturation by 10% instead.



■ 17.7798, 0.2488,  
0.2275

■ 17.7798, 0.2488,  
0.2275

■ 239.6269, 0.2854,  
0.2829

■ 10.7920, 0.2380,  
0.2123

■ 39.6618, 0.2633,  
0.2487

■ 5.9272, 0.2231,  
0.1921

■ 55.3247, 0.2684,  
0.2563

■ 2.8008, 0.2015,  
0.1643

■ 74.6482, 0.2725,  
0.2627

■ 1.0287, 0.1683,  
0.1248

■ 98.0165, 0.2760,  
0.2680

■ 0.0000, 0.0847,  
0.0000

■ 125.8142, 0.2789,  
0.2725

■ 0.0000, 0.0000,  
0.0000

158.4256, 0.2814,

0.2765

196.2350, 0.2835,  
0.2799

■ 17.7798, 0.2488,  
0.2275

■ 17.7798, 0.2488,  
0.2275

■ 13.5316, 0.2281,  
0.1940

■ 22.8873, 0.2686,  
0.2592

■ 10.0935, 0.2076,  
0.1604

■ 28.8956, 0.2869,  
0.2883

■ 7.4146, 0.1885,  
0.1286

■ 35.8459, 0.3033,  
0.3143

■ 5.4374, 0.1722,  
0.1011

■ 43.7763, 0.3179,  
0.3371

■ 4.0959, 0.1602,  
0.0800

■ 52.7227, 0.3307,  
0.3570

■ 3.3094, 0.1529,  
0.0666

■ 62.7194, 0.3418,  
0.3742

■ 3.1245, 0.1510,  
0.0634

■ 73.7988, 0.3514,  
0.3890

■ 85.9921, 0.3598,  
0.4017

■ 95.7198, 0.3626,  
0.4115

# Harmonies

## Analogous

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



17.7798, 0.2097, 0.2310



17.7798, 0.2488, 0.2275



17.7798, 0.3090, 0.2455

# Triad

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



17.7798, 0.2488, 0.2275



17.7798, 0.4453, 0.3779



17.7798, 0.2462, 0.3828

# Complementary

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



17.7798, 0.2488, 0.2275



37.7279, 0.3676, 0.4136

# 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.



17.7798, 0.3051, 0.4376



17.7798, 0.2488, 0.2275



17.7798, 0.4215, 0.4238

# Square

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



17.7798, 0.2488, 0.2275



17.7798, 0.4295, 0.3274



17.7798, 0.3694, 0.4503



17.7798, 0.2076, 0.3134



# Rectangle

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



17.7798, 0.2488, 0.2275



17.7798, 0.3549, 0.2675



17.7798, 0.3694, 0.4503



17.7798, 0.2641, 0.4045

# Sweetspot

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



17.7805, 0.2488, 0.2275



57.8874, 0.2955, 0.3019



35.1913, 0.2648, 0.3338



12.5486, 0.2933, 0.2985



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290



# Same Dimension

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



17.7805, 0.2488, 0.2275



25.2935, 0.2313, 0.1992



19.1699, 0.2774, 0.2302



7.8188, 0.2985, 0.3067



2.3790, 0.1511, 0.0639



0.0864, 0.1558, 0.0809



# Inverse Universe

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



20.7506, 0.3938, 0.3245



31.5679, 0.4231, 0.3235



36.0694, 0.3386, 0.4262



8.0216, 0.3279, 0.3279



6.5432, 0.6334, 0.3263



0.1841, 0.6056, 0.3110



# Previews

## White Background



This preview shows how the Yxy color 17.7798, 0.2488, 0.2275 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

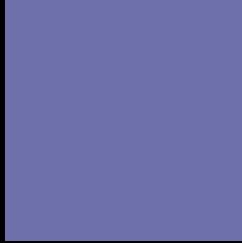
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 17.7798, 0.2488, 0.2275 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

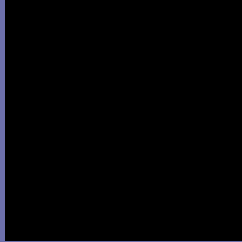
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 17.7798, 0.2488, 0.2275**

## **Background**



This preview shows how black text looks on a background with the Yxy color 17.7798, 0.2488, 0.2275.

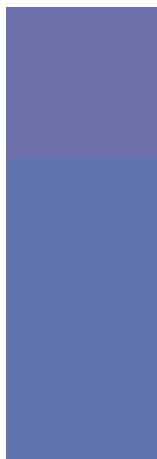


This preview shows how white text looks on a background with the Yxy color 17.7798, 0.2488, 0.2275.

# 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

17.7798, 0.2488, 0.2275

### Protanopia

17.8200, 0.2372, 0.2272

### Deuteranopia

17.8260, 0.2380, 0.2328



## Tritanopia

17.6973, 0.2774, 0.3089

# Trichromacy



## Original Color

17.7798, 0.2488, 0.2275

## Protanomaly

17.7799, 0.2412, 0.2277

## Deuteranomaly

17.8731, 0.2421, 0.2321

## Tritanomaly

17.6505, 0.2666, 0.2757

# Monochromacy



## Original Color

17.7798, 0.2488, 0.2275

## Achromatopsia

18.1164, 0.3127, 0.3290

## Achromatomaly

17.9418, 0.2878, 0.2896

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  17.7798, 0.2488, 0.2275 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(109, 112, 171)` looks like.

```
.text, #text, p{  
    color:rgb(109, 112, 171)  
}
```

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(109, 112, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(109, 112, 171) }
```

## Border

The CSS property to change the border of an element to Yxy 17.7798, 0.2488, 0.2275 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(109, 112, 171) }
```

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

```
.border{ border-color:rgb(109, 112, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(109, 112, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(109, 112, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(109, 112, 171);  
box-shadow:4px 4px 4px 4px rgb(109, 112,  
171) }
```



# Background

The CSS property to change the background color of an element to Yxy 17.7798, 0.2488, 0.2275 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(109, 112, 171) }
```

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

```
.background{ background-color: rgb(109,  
112, 171) }
```

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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