

# Converting Colors

$Y_{xy}(28.2668, 0.2400, 0.2221)$

Have a look what the booklet for  
Yxy(28.2668, 0.2400, 0.2221)  
contains.

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# Color

**Yxy(28.1745, 0.2399, 0.2224)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7F8CD7
RGB	127, 140, 215
RGB Percent	50%, 55%, 84%
CMY	0.5021, 0.4509, 0.1569
CMYK	0.41, 0.35, 0.00, 0.16
HSL	231°, 52%, 67%
HSV	231°, 41%, 84%
XYZ	30.3915, 28.1745, 68.1179
YIQ	144.6630, -31.8230, 20.5690

# Conversions

## Conversions Part 2

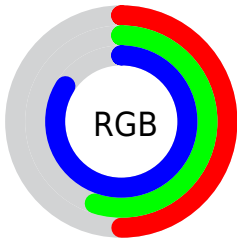
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">127, 138, 215</a>
Decimal	<a href="#">8359127</a>
CIELab	<a href="#">60.05, 14.12, -39.94</a>
CIELCh	<a href="#">60, 42.362, 289.473</a>
Yxy	<a href="#">28.1745, 0.2399, 0.2224</a>
Android (android.graphics.Color)	<a href="#">4286549207 (0xFF7F8CD7)</a>
YUV	<a href="#">144.6630, 34.6761, -15.4905</a>
Hunter-Lab	<a href="#">53.0797, 9.3132, -38.9320</a>

# Details

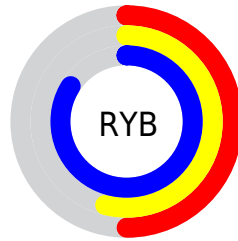
The Yxy color **28.1745, 0.2399, 0.2224** is a light color, and the websafe version is hex **9999CC**. A complement of this color would be **58.1935, 0.3792, 0.4167**, and the grayscale version is **28.0371, 0.3127, 0.3290**.

A 20% lighter version of the original color is **55.4272, 0.2642, 0.2585**, and **11.2669, 0.2169, 0.1917** is the 20% darker color. If you saturate the color by 10%, you get **21.7831, 0.2199, 0.1911**, and if you desaturate by 10%, it is **35.8109, 0.2596, 0.2524**.

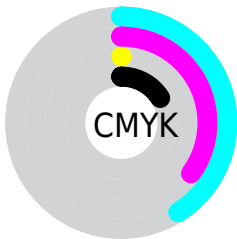
# Distribution



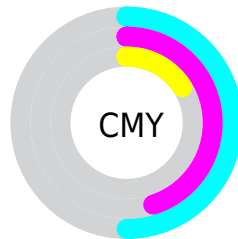
- Red (50%)
- Green (55%)
- Blue (84%)



- Red (50%)
- Yellow (54%)
- Blue (84%)



- Cyan (41%)
- Magenta (35%)
- Yellow (0%)
- Black (16%)




- Cyan (50%)
- Magenta (45%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.1745, 0.2399, 0.2224 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 28.1745, 0.2399, 0.2224 by changing the saturation by 10% instead.




 28.1745, 0.2399,  
0.2224


 28.1745, 0.2399,  
0.2224


293.2998, 0.2785,  
0.2763


 18.4572, 0.2298,  
0.2091

 56.7629, 0.2543,  
0.2420

 11.2788, 0.2167,  
0.1923


 76.4029, 0.2596,  
0.2493

 6.2547, 0.1992,  
0.1705


 100.1192, 0.2641,  
0.2556

 3.0005, 0.1748,  
0.1416

128.2962, 0.2678,  
0.2609

 1.1320, 0.1398,  
0.1031

161.3184, 0.2711,  
0.2655

 0.0051, 0.0767,  
0.0011

199.5702, 0.2739,

 0.0000, 0.0000,

0.2696

0.0000

243.4358, 0.2763,  
0.2732

■ 28.1745, 0.2399,  
0.2224

■ 28.1745, 0.2399,  
0.2224

■ 21.7831, 0.2199,  
0.1911

■ 35.8109, 0.2596,  
0.2524

■ 16.5668, 0.2005,  
0.1597

■ 44.7507, 0.2784,  
0.2800

■ 12.4537, 0.1831,  
0.1301

■ 55.0524, 0.2957,  
0.3050

■ 9.3623, 0.1689,  
0.1042

■ 66.7700, 0.3113,  
0.3271

■ 7.1995, 0.1588,  
0.0839

■ 79.9547, 0.3253,  
0.3464

■ 5.9308, 0.1531,  
0.0711

■ 94.4712, 0.3371,  
0.3633

■ 97.6857, 0.3364,  
0.3681

# Harmonies

## Analogous

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



28.1745, 0.2022, 0.2285



28.1745, 0.2399, 0.2224



28.1745, 0.3006, 0.2388

# Triad

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



28.1745, 0.2399, 0.2224



28.1745, 0.4520, 0.3734



28.1745, 0.2490, 0.3938

# Complementary

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



28.1745, 0.2399, 0.2224



58.1935, 0.3792, 0.4167

# 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.



28.1745, 0.3120, 0.4476



28.1745, 0.2399, 0.2224



28.1745, 0.4310, 0.4228

# Square

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



28.1745, 0.2399, 0.2224



28.1745, 0.4307, 0.3210



28.1745, 0.3787, 0.4548



28.1745, 0.2061, 0.3201



# Rectangle

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



28.1745, 0.2399, 0.2224



28.1745, 0.3486, 0.2603



28.1745, 0.3787, 0.4548



28.1745, 0.2684, 0.4159

# Sweetspot

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



28.1755, 0.2399, 0.2224



79.1332, 0.2937, 0.3022



57.3589, 0.2638, 0.3465



16.4914, 0.2915, 0.2990



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

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



28.1755, 0.2399, 0.2224



33.3265, 0.2228, 0.1957



27.3239, 0.2628, 0.2118



12.3027, 0.2982, 0.3085



3.6433, 0.1536, 0.0727



0.3164, 0.1610, 0.0994



# Inverse Universe

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



31.5108, 0.4009, 0.3132



39.3945, 0.4301, 0.3102



60.3394, 0.3487, 0.4389



12.4505, 0.3268, 0.3256



8.7126, 0.6187, 0.3182

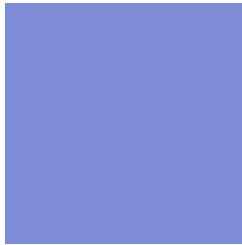


0.5353, 0.5767, 0.2951



# Previews

## White Background



This preview shows how the Yxy color 28.1745, 0.2399, 0.2224 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

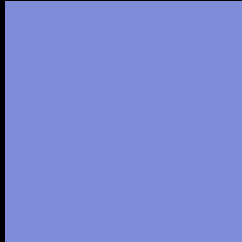
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 28.1745, 0.2399, 0.2224 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

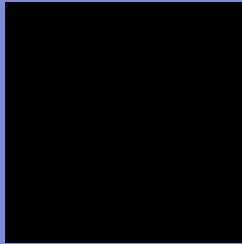
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 28.1745, 0.2399, 0.2224**

## **Background**



This preview shows how black text looks on a background with the Yxy color 28.1745, 0.2399, 0.2224.



This preview shows how white text looks on a background with the Yxy color 28.1745, 0.2399, 0.2224.

# 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

28.1745, 0.2399, 0.2224

### Protanopia

28.2777, 0.2336, 0.2216

### Deuteranopia

28.3790, 0.2324, 0.2270



## Tritanopia

28.3550, 0.2682, 0.3089

# Trichromacy



## Original Color

28.1745, 0.2399, 0.2224

## Protanomaly

28.1452, 0.2360, 0.2218

## Deuteranomaly

28.4219, 0.2355, 0.2264

## Tritanomaly

28.1668, 0.2573, 0.2736

# Monochromacy



## Original Color

28.1745, 0.2399, 0.2224

## Achromatopsia

28.3149, 0.3127, 0.3290

## Achromatomaly

27.9505, 0.2827, 0.2867

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.1745, 0.2399, 0.2224 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(127, 140, 215)` looks like.

```
.text, #text, p{  
    color:rgb(127, 140, 215)  
}
```

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(127, 140, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(127, 140, 215) }
```

## Border

The CSS property to change the border of an element to Yxy 28.1745, 0.2399, 0.2224 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(127, 140, 215) }
```

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

```
.border{ border-color:rgb(127, 140, 215) }
```

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

Here you see how a box with a 4 pixel `rgb(127, 140, 215)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(127, 140, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(127, 140, 215);  
box-shadow:4px 4px 4px 4px rgb(127, 140,  
215) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.1745, 0.2399, 0.2224 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(127, 140, 215) }
```

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

```
.background{ background-color: rgb(127,  
140, 215) }
```

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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