

# Converting Colors

$Y_{xy}(28.9766, 0.2999, 0.2156)$

Have a look what the booklet for  
Yxy(28.9766, 0.2999, 0.2156)  
contains.

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# Color

**Yxy(28.9975, 0.2995, 0.2159)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C176D3
RGB	193, 118, 211
RGB Percent	76%, 46%, 83%
CMY	0.2431, 0.5372, 0.1727
CMYK	0.09, 0.44, 0.00, 0.17
HSL	288°, 51%, 65%
HSV	288°, 44%, 83%
XYZ	40.2258, 28.9975, 65.0866
YIQ	151.0270, 14.8470, 44.8230

# Conversions

## Conversions Part 2

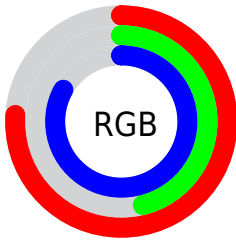
Format	Color
<b>RYB</b>	193, 118, 211
Decimal	12678867
CIELab	60.78, 44.45, -36.10
CIElCh	61, 57.264, 320.921
Yxy	28.9975, 0.2995, 0.2159
Android (android.graphics.Color)	4290868947 (0xFFC176D3)
YUV	151.0270, 29.5667, 36.8103
Hunter-Lab	53.8493, 39.1044, -33.9681

# Details

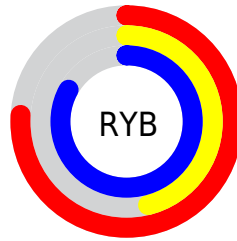
The Yxy color **28.9975, 0.2995, 0.2159** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **53.1159, 0.3184, 0.4607**, and the grayscale version is **30.8271, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.2343, 0.3133, 0.2471**, and **11.8179, 0.2932, 0.1874** is the 20% darker color. If you saturate the color by 10%, you get **24.0441, 0.2951, 0.1918**, and if you desaturate by 10%, it is **35.0793, 0.3034, 0.2416**.

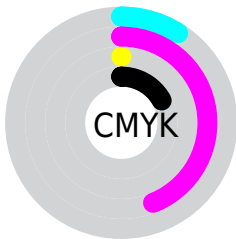
# Distribution



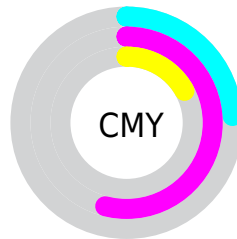
- Red (76%)
- Green (46%)
- Blue (83%)



- Red (76%)
- Yellow (46%)
- Blue (83%)



- Cyan (9%)
- Magenta (44%)
- Yellow (0%)
- Black (17%)




- Cyan (24%)
- Magenta (54%)
- Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.9975, 0.2995, 0.2159 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 28.9975, 0.2995, 0.2159 by changing the saturation by 10% instead.




 28.9975, 0.2995,  
0.2159


 28.9975, 0.2995,  
0.2159


297.2032, 0.3083,  
0.2710

 19.0789, 0.2966,  
0.2028


 58.0731, 0.3032,  
0.2354

 11.7273, 0.2926,  
0.1866


 77.9989, 0.3045,  
0.2429

 6.5583, 0.2865,  
0.1658


 102.0293, 0.3055,  
0.2493

 3.1874, 0.2770,  
0.1388

130.5486, 0.3063,  
0.2548

 1.2304, 0.2608,  
0.1032

163.9413, 0.3069,  
0.2596

 0.0863, 0.2403,  
0.0171

202.5917, 0.3075,

 0.0000, 0.0718,

0.2639

0.0000

246.8842, 0.3079,  
0.2676

 0.0000, 0.0000,  
0.0000

 28.9975, 0.2995,  
0.2159


 28.9975, 0.2995,  
0.2159

 24.0441, 0.2951,  
0.1918

 35.0793, 0.3034,  
0.2416


 20.1403, 0.2903,  
0.1705


 42.3540, 0.3068,  
0.2679


 17.2030, 0.2853,  
0.1528


 50.8854, 0.3096,  
0.2940


 15.1348, 0.2801,  
0.1396

 60.7319, 0.3119,  
0.3192

 13.8174, 0.2750,  
0.1308

 71.9480, 0.3138,  
0.3429

 13.2688, 0.2720,  
0.1272

 84.5853, 0.3152,  
0.3650

 91.6805, 0.3171,  
0.3751

 92.3306, 0.3197,  
0.3748

 92.9964, 0.3223,  
0.3744

# Harmonies

## Analogous

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



28.9975, 0.2209, 0.1941



28.9975, 0.2995, 0.2159



28.9975, 0.3960, 0.2595

# Triad

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



28.9975, 0.2995, 0.2159



28.9975, 0.4610, 0.4474



28.9975, 0.1731, 0.3091

# Complementary

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



28.9975, 0.2995, 0.2159



53.1159, 0.3184, 0.4607

# 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.



28.9975, 0.2236, 0.4128



28.9975, 0.2995, 0.2159



28.9975, 0.3895, 0.4962

# Square

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



28.9975, 0.2995, 0.2159



28.9975, 0.4957, 0.3823



28.9975, 0.3029, 0.4913



28.9975, 0.1575, 0.2343



# Rectangle

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



28.9975, 0.2995, 0.2159



28.9975, 0.4524, 0.2972



28.9975, 0.3029, 0.4913



28.9975, 0.1860, 0.3421

# Sweetspot

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



28.9987, 0.2995, 0.2159



79.4477, 0.3098, 0.2964



26.3326, 0.2350, 0.2201



16.3337, 0.3092, 0.2906



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.



28.9987, 0.2995, 0.2159



37.2541, 0.2953, 0.1930



30.2265, 0.3474, 0.2507



11.8888, 0.3107, 0.3059



8.0529, 0.2727, 0.1276



0.4806, 0.2821, 0.1328



# Inverse Universe

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



28.5812, 0.4055, 0.3068



36.7315, 0.4379, 0.3027



52.4994, 0.2902, 0.4240



11.8451, 0.3261, 0.3245



8.4650, 0.6078, 0.3122

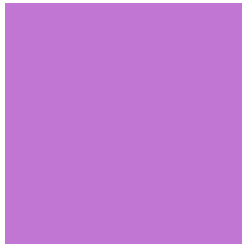


0.4846, 0.5572, 0.2843



# Previews

## White Background



This preview shows how the Yxy color 28.9975, 0.2995, 0.2159 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

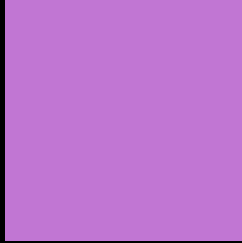
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 28.9975, 0.2995, 0.2159 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

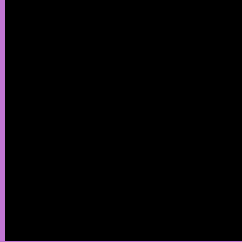
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 28.9975, 0.2995, 0.2159**

## Background



This preview shows how black text looks on a background with the Yxy color 28.9975, 0.2995, 0.2159.



This preview shows how white text looks on a background with the Yxy color 28.9975, 0.2995, 0.2159.

# 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

28.9975, 0.2995, 0.2159

### Protanopia

29.3404, 0.2219, 0.2067

### Deuteranopia

29.2191, 0.2467, 0.2401



## Tritanopia

28.8255, 0.3592, 0.3150

# Trichromacy



**Original Color**

28.9975, 0.2995, 0.2159

**Protanomaly**

28.5150, 0.2440, 0.2083

**Deuteranomaly**

28.4613, 0.2631, 0.2282

**Tritanomaly**

28.8303, 0.3364, 0.2749

# Monochromacy



**Original Color**

28.9975, 0.2995, 0.2159

**Achromatopsia**

30.9469, 0.3127, 0.3290

**Achromatomaly**

29.5894, 0.3077, 0.2801

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.9975, 0.2995, 0.2159 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(193, 118, 211)` looks like.

```
.text, #text, p{  
    color:rgb(193, 118, 211)  
}
```

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(193, 118, 211) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 118, 211) }
```

## Border

The CSS property to change the border of an element to Yxy 28.9975, 0.2995, 0.2159 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(193, 118, 211) }
```

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

```
.border{ border-color:rgb(193, 118, 211) }
```

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

Here you see how a box with a 4 pixel `rgb(193, 118, 211)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 118, 211); -webkit-box-  
shadow:4px 4px 4px 4px rgb(193, 118, 211);  
box-shadow:4px 4px 4px 4px rgb(193, 118,  
211) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.9975, 0.2995, 0.2159 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(193, 118, 211) }
```

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

```
.background{ background-color: rgb(193,  
118, 211) }
```

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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