

# Converting Colors

$Y_{xy}(27.8785, 0.3302, 0.1872)$

Have a look what the booklet for  
Yxy(27.8785, 0.3302, 0.1872)  
contains.

<b>Yxy(27.8785, 0.3302, 0.1872)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(27.8785, 0.3302, 0.1872)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E84EDE
RGB	232, 78, 222
RGB Percent	91%, 31%, 87%
CMY	0.0903, 0.6939, 0.1296
CMYK	0.00, 0.66, 0.04, 0.09
HSL	304°, 77%, 61%
HSV	304°, 66%, 91%
XYZ	49.1746, 27.8785, 71.8705
YIQ	140.4620, 45.5600, 77.4320

# Conversions

## Conversions Part 2

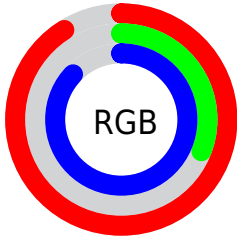
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	232, 78, 222
Decimal	15224542
CIE <sub>Lab</sub>	59.78, 74.76, -43.48
CIE <sub>LCh</sub>	60, 86.488, 329.816
Yxy	27.8785, 0.3302, 0.1872
Android (android.graphics.Color)	4293414622 (0xFFE84EDE)
YUV	140.4620, 40.1982, 80.2788
Hunter-Lab	52.8001, 73.8431, -43.7444

# Details

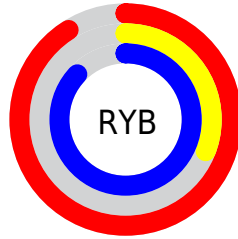
The Yxy color **27.8785, 0.3302, 0.1872** is a light color, and the websafe version is hex **CC33CC**. The color can be described as light muted magenta. A complement of this color would be **60.0203, 0.2992, 0.5320**, and the grayscale version is **26.2513, 0.3127, 0.3290**.

A 20% lighter version of the original color is **46.6570, 0.3180, 0.2170**, and **11.6374, 0.3312, 0.1598** is the 20% darker color. If you saturate the color by 10%, you get **25.0612, 0.3329, 0.1752**, and if you desaturate by 10%, it is **31.8612, 0.3274, 0.2032**.

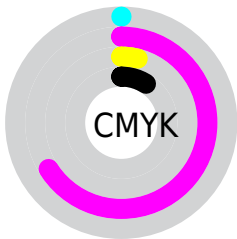
# Distribution



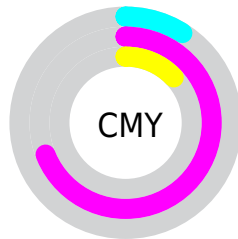
- Red (91%)
- Green (31%)
- Blue (87%)



- Red (91%)
- Yellow (31%)
- Blue (87%)



- Cyan (0%)
- Magenta (66%)
- Yellow (4%)
- Black (9%)



- Cyan (9%)
- Magenta (69%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 27.8785, 0.3302, 0.1872 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 27.8785, 0.3302, 0.1872 by changing the saturation by 10% instead.





 27.8785, 0.3302,  
0.1872

 27.8785, 0.3302,  
0.1872


291.8859, 0.3246,  
0.2534


 18.2341, 0.3306,  
0.1724


 56.2904, 0.3289,  
0.2100

 11.1182, 0.3307,  
0.1544


 75.8267, 0.3282,  
0.2190

 6.1464, 0.3299,  
0.1324


 99.4291, 0.3275,  
0.2267

 2.9343, 0.3272,  
0.1052

 127.4819, 0.3269,  
0.2334

 1.0975, 0.3205,  
0.0720

160.3696, 0.3262,  
0.2393

 0.0000, 0.3152,  
0.0000

198.4766, 0.3257,


 0.0000, 0.2651,


0.2446


0.0000

242.1872, 0.3251,  
0.2492


 0.0000, 0.0000,  
0.0000


 27.8785, 0.3302,  
0.1872


 27.8785, 0.3302,  
0.1872


 25.0612, 0.3329,  
0.1752


 31.8612, 0.3274,  
0.2032


 23.2769, 0.3353,  
0.1676

 37.1153, 0.3245,  
0.2226


 22.3664, 0.3374,  
0.1643


 43.7391, 0.3217,  
0.2443


 22.1536, 0.3382,  
0.1637


 51.8205, 0.3190,  
0.2674

 61.4397, 0.3164,  
0.2911

 72.6713, 0.3141,  
0.3145

 85.5849, 0.3120,  
0.3371

 94.6112, 0.3105,  
0.3502

 94.6982, 0.3096,  
0.3486

# Harmonies

## Analogous

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



27.8785, 0.2079, 0.1509



27.8785, 0.3302, 0.1872



27.8785, 0.4785, 0.2488

# Triad

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



27.8785, 0.3302, 0.1872



27.8785, 0.4777, 0.5013



27.8785, 0.1088, 0.2506

# Complementary

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



27.8785, 0.3302, 0.1872



60.0203, 0.2992, 0.5320

# 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.



27.8785, 0.1536, 0.4066



27.8785, 0.3302, 0.1872



27.8785, 0.3647, 0.5861

# Square

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



27.8785, 0.3302, 0.1872



27.8785, 0.5603, 0.4052



27.8785, 0.2477, 0.5685



27.8785, 0.1058, 0.1709



# Rectangle

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



27.8785, 0.3302, 0.1872



27.8785, 0.5512, 0.2976



27.8785, 0.2477, 0.5685



27.8785, 0.1183, 0.2940

# Sweetspot

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



27.8798, 0.3302, 0.1872



71.4541, 0.3174, 0.2822



13.2495, 0.1882, 0.1182



14.5752, 0.3181, 0.2755



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.



27.8798, 0.3302, 0.1872



30.0232, 0.3339, 0.1716



24.7245, 0.4285, 0.2566



14.5982, 0.3148, 0.3073



12.3106, 0.3379, 0.1635



0.9146, 0.3351, 0.1620



# Inverse Universe

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



27.8798, 0.3302, 0.1872



30.0232, 0.3339, 0.1716



61.9486, 0.2661, 0.4273



14.5982, 0.3148, 0.3073



12.3106, 0.3379, 0.1635



0.9146, 0.3351, 0.1620



# Previews

## White Background



This preview shows how the Yxy color 27.8785, 0.3302, 0.1872 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

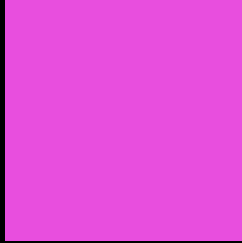
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 27.8785, 0.3302, 0.1872 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

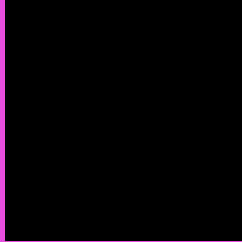
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 27.8785, 0.3302, 0.1872**

## Background



This preview shows how black text looks on a background with the Yxy color 27.8785, 0.3302, 0.1872.

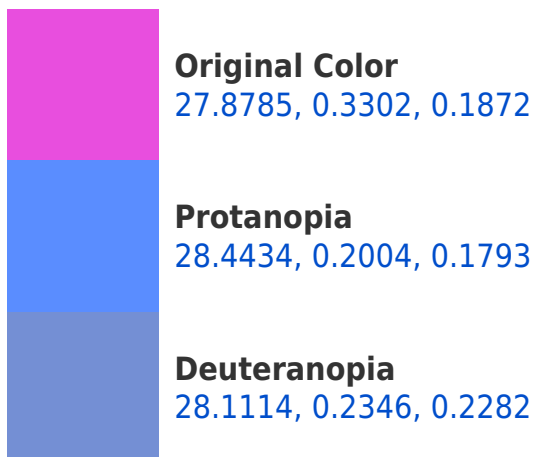


This preview shows how white text looks on a background with the Yxy color 27.8785, 0.3302, 0.1872.

# 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





## Tritanopia

27.6755, 0.4435, 0.3200

# Trichromacy



## Original Color

27.8785, 0.3302, 0.1872



## Protanomaly

25.1787, 0.2302, 0.1714



## Deuteranomaly

25.4206, 0.2613, 0.2007



## Tritanomaly

26.9830, 0.4007, 0.2630

# Monochromacy



## Original Color

27.8785, 0.3302, 0.1872



## Achromatopsia

26.2251, 0.3127, 0.3290



## Achromatomaly

24.5091, 0.3197, 0.2540

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 27.8785, 0.3302, 0.1872 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(232, 78, 222)` looks like.

```
.text, #text, p{  
    color:rgb(232, 78, 222)  
}
```

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(232, 78, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 78, 222) }
```

## Border

The CSS property to change the border of an element to Yxy 27.8785, 0.3302, 0.1872 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(232, 78, 222) }
```

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

```
.border{ border-color:rgb(232, 78, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(232, 78, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 78, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 78, 222);  
box-shadow:4px 4px 4px 4px rgb(232, 78,  
222) }
```



# Background

The CSS property to change the background color of an element to Yxy 27.8785, 0.3302, 0.1872 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 78, 222) }
```

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

```
.background{ background-color: rgb(232, 78,  
222) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor