

# Converting Colors

$Y_{xy}(36.1695, 0.2765, 0.2224)$

Have a look what the booklet for  
Yxy(36.1695, 0.2765, 0.2224)  
contains.

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# Color

**Yxy(36.0929, 0.2766, 0.2217)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BB8FE9
RGB	187, 143, 233
RGB Percent	73%, 56%, 91%
CMY	0.2665, 0.4393, 0.0863
CMYK	0.20, 0.39, 0.00, 0.09
HSL	269°, 67%, 74%
HSV	269°, 39%, 91%
XYZ	45.0307, 36.0929, 81.6771
YIQ	166.4160, -2.6660, 37.3180

# Conversions

## Conversions Part 2

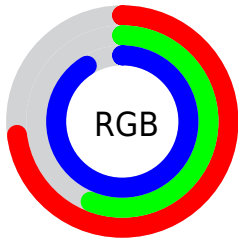
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	187, 143, 233
Decimal	12292073
CIE <sub>Lab</sub>	66.59, 33.79, -39.33
CIE <sub>LCh</sub>	67, 51.849, 310.672
Yxy	36.0929, 0.2766, 0.2217
Android (android.graphics.Color)	4290482153 (0xFFBB8FE9)
YUV	166.4160, 32.8259, 18.0522
Hunter-Lab	60.0774, 28.6583, -38.5525

# Details

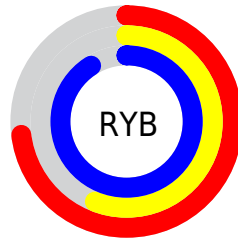
The Yxy color **36.0929, 0.2766, 0.2217** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **71.0661, 0.3380, 0.4362**, and the grayscale version is **38.1861, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.3856, 0.3072, 0.2708**, and **15.7342, 0.2643, 0.1954** is the 20% darker color. If you saturate the color by 10%, you get **28.3723, 0.2642, 0.1917**, and if you desaturate by 10%, it is **45.3933, 0.2878, 0.2516**.

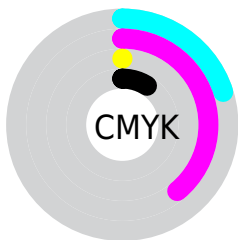
# Distribution



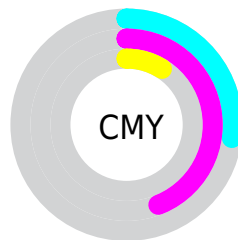
- Red (73%)
- Green (56%)
- Blue (91%)



- Red (73%)
- Yellow (56%)
- Blue (91%)



- Cyan (20%)
- Magenta (39%)
- Yellow (0%)
- Black (9%)




- Cyan (27%)
- Magenta (44%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.0929, 0.2766, 0.2217 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 36.0929, 0.2766, 0.2217 by changing the saturation by 10% instead.





 36.0929, 0.2766,  
0.2217


 36.0929, 0.2766,  
0.2217


329.3664, 0.2962,  
0.2728

 24.5060, 0.2714,  
0.2099


 69.1754, 0.2840,  
0.2396

 15.7094, 0.2645,  
0.1953


 91.4398, 0.2867,  
0.2465

 9.3187, 0.2552,  
0.1770


118.0321, 0.2890,  
0.2524

 4.9497, 0.2420,  
0.1534

149.3367, 0.2909,  
0.2576

 2.2178, 0.2223,  
0.1225

185.7381, 0.2925,  
0.2621

 0.7296, 0.1912,  
0.0813

227.6206, 0.2939,

 0.0000, 0.1309,

0.2661

0.0000

275.3685, 0.2951,  
0.2696

0.0000, 0.0000,  
0.0000

36.0929, 0.2766,  
0.2217

36.0929, 0.2766,  
0.2217

28.3723, 0.2642,  
0.1917

45.3933, 0.2878,  
0.2516

22.1333, 0.2510,  
0.1630

56.3547, 0.2977,  
0.2804

17.2737, 0.2374,  
0.1370

69.0580, 0.3063,  
0.3074

13.6755, 0.2241,  
0.1153

83.5774, 0.3136,  
0.3323

11.1998, 0.2115,  
0.0990

97.0888, 0.3202,  
0.3506

■ 9.6432, 0.2003,  
0.0882

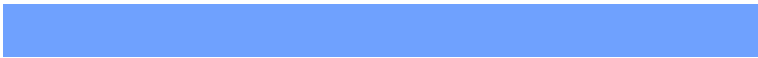
■ 98.6627, 0.3256,  
0.3503

■ 9.4636, 0.1989,  
0.0869

# Harmonies

## Analogous

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



36.0929, 0.2165, 0.2103



36.0929, 0.2766, 0.2217



36.0929, 0.3559, 0.2544

# Triad

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



36.0929, 0.2766, 0.2217



36.0929, 0.4556, 0.4162



36.0929, 0.2046, 0.3422

# Complementary

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



36.0929, 0.2766, 0.2217



71.0661, 0.3380, 0.4362

# 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.



36.0929, 0.2595, 0.4254



36.0929, 0.2766, 0.2217



36.0929, 0.4046, 0.4621

# Square

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



36.0929, 0.2766, 0.2217



36.0929, 0.4674, 0.3591



36.0929, 0.3328, 0.4722



36.0929, 0.1793, 0.2680



# Rectangle

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



36.0929, 0.2766, 0.2217



36.0929, 0.4079, 0.2854



36.0929, 0.3328, 0.4722



36.0929, 0.2199, 0.3710

# Sweetspot

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



36.0944, 0.2766, 0.2217



79.1633, 0.3035, 0.2983



48.3274, 0.2509, 0.2734



16.5006, 0.3024, 0.2948



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.



36.0944, 0.2766, 0.2217



36.9290, 0.2673, 0.1989



42.5947, 0.3158, 0.2334



14.9109, 0.3056, 0.3052



5.4436, 0.2004, 0.0878



0.4846, 0.2155, 0.0961



# Inverse Universe

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



40.6346, 0.3593, 0.2775



43.4089, 0.3726, 0.2676



66.2291, 0.3081, 0.4467



15.1824, 0.3213, 0.3170



10.6100, 0.4912, 0.2479

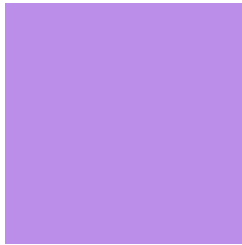


0.8526, 0.4612, 0.2314



# Previews

## White Background



This preview shows how the Yxy color 36.0929, 0.2766, 0.2217 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

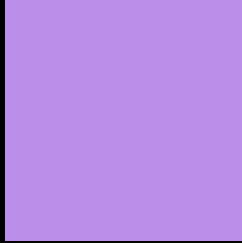
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.0929, 0.2766, 0.2217 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

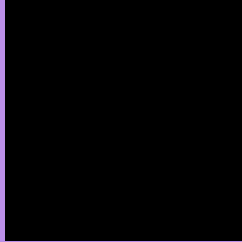
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 36.0929, 0.2766, 0.2217**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.0929, 0.2766, 0.2217.



This preview shows how white text looks on a background with the Yxy color 36.0929, 0.2766, 0.2217.

# 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

36.0929, 0.2766, 0.2217

### Protanopia

36.2754, 0.2301, 0.2174

### Deuteranopia

36.2020, 0.2438, 0.2373



## Tritanopia

36.2086, 0.3203, 0.3124

# Trichromacy



## Original Color

36.0929, 0.2766, 0.2217



## Protanomaly

35.7126, 0.2445, 0.2181



## Deuteranomaly

35.8923, 0.2549, 0.2313



## Tritanomaly

35.9655, 0.3037, 0.2761

# Monochromacy



## Original Color

36.0929, 0.2766, 0.2217



## Achromatopsia

38.1326, 0.3127, 0.3290



## Achromatomaly

37.1701, 0.2999, 0.2860

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.0929, 0.2766, 0.2217 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(187, 143, 233)` looks like.

```
.text, #text, p{  
    color:rgb(187, 143, 233)  
}
```

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(187, 143, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 143, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 36.0929, 0.2766, 0.2217 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(187, 143, 233) }
```

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

```
.border{ border-color:rgb(187, 143, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 143, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 143, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 143, 233);  
box-shadow:4px 4px 4px 4px rgb(187, 143,  
233) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.0929, 0.2766, 0.2217 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 143, 233) }
```

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

```
.background{ background-color: rgb(187,  
143, 233) }
```

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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