

# Converting Colors

$Y_{xy}(42.5958, 0.2747, 0.2179)$

Have a look what the booklet for  
Yxy(42.5958, 0.2747, 0.2179)  
contains.

<b>Yxy(42.4948, 0.2747, 0.2176)</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(42.4948, 0.2747, 0.2176)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CA99FE
RGB	202, 153, 254
RGB Percent	79%, 60%, 100%
CMY	0.2077, 0.4000, 0.0039
CMYK	0.20, 0.40, 0.00, 0.00
HSL	269°, 98%, 80%
HSV	269°, 40%, 100%
XYZ	53.6458, 42.4948, 99.1480
YIQ	179.1650, -3.2170, 41.7990

# Conversions

## Conversions Part 2

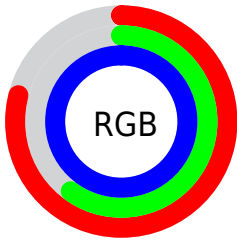
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	202, 153, 254
Decimal	13277694
CIE Lab	71.21, 37.30, -43.49
CIE LCh	71, 57.294, 310.619
Yxy	42.4948, 0.2747, 0.2176
Android (android.graphics.Color)	4291467774 (0xFFCA99FE)
YUV	179.1650, 36.8937, 20.0263
Hunter-Lab	65.1880, 32.8156, -44.5458

# Details

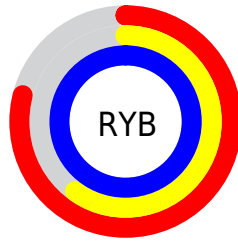
The Yxy color **42.4948, 0.2747, 0.2176** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **86.1625, 0.3389, 0.4401**, and the grayscale version is **44.9749, 0.3127, 0.3290**.

A 20% lighter version of the original color is **73.5918, 0.3149, 0.2831**, and **19.4496, 0.2627, 0.1922** is the 20% darker color. If you saturate the color by 10%, you get **33.3020, 0.2620, 0.1875**, and if you desaturate by 10%, it is **53.6150, 0.2862, 0.2477**.

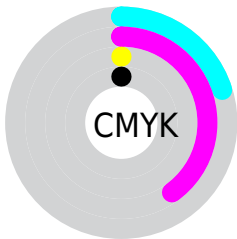
# Distribution



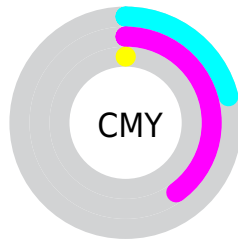
- Red (79%)
- Green (60%)
- Blue (100%)



- Red (79%)
- Yellow (60%)
- Blue (100%)



- Cyan (20%)
- Magenta (40%)
- Yellow (0%)
- Black (0%)




- Cyan (21%)
- Magenta (40%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.4948, 0.2747, 0.2176 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 42.4948, 0.2747, 0.2176 by changing the saturation by 10% instead.





 42.4948, 0.2747,  
0.2176


 42.4948, 0.2747,  
0.2176

356.5300, 0.2948,  
0.2688

 29.4889, 0.2695,  
0.2062


 78.9479, 0.2821,  
0.2352

 19.4510, 0.2629,  
0.1923


 103.1640, 0.2849,  
0.2421

 11.9966, 0.2541,  
0.1752


131.8856, 0.2872,  
0.2481

 6.7414, 0.2420,  
0.1537

165.4970, 0.2892,  
0.2533

 3.3009, 0.2246,  
0.1262

204.3828, 0.2909,  
0.2579

 1.2908, 0.1984,  
0.0912

248.9273, 0.2924,

 0.1340, 0.1616,

0.2619

0.0206

299.5149, 0.2937,  
0.2656

0.0000, 0.0000,  
0.0000

42.4948, 0.2747,  
0.2176

42.4948, 0.2747,  
0.2176

33.3020, 0.2620,  
0.1875

53.6150, 0.2862,  
0.2477

25.9143, 0.2486,  
0.1589

66.7644, 0.2964,  
0.2769

20.2030, 0.2348,  
0.1333

82.0436, 0.3053,  
0.3043

16.0195, 0.2214,  
0.1121

99.5451, 0.3129,  
0.3296

13.1872, 0.2089,  
0.0966

99.9364, 0.3133,  
0.3299

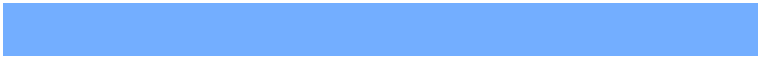
■ 11.4265, 0.1979,  
0.0864

■ 11.3917, 0.1976,  
0.0862

# Harmonies

## Analogous

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



42.4948, 0.2125, 0.2057



42.4948, 0.2747, 0.2176



42.4948, 0.3575, 0.2514

# Triad

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



42.4948, 0.2747, 0.2176



42.4948, 0.4615, 0.4187



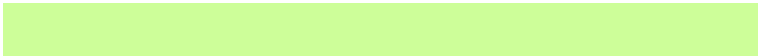
42.4948, 0.2001, 0.3426

# Complementary

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



42.4948, 0.2747, 0.2176



86.1625, 0.3389, 0.4401

# 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.



42.4948, 0.2569, 0.4306



42.4948, 0.2747, 0.2176



42.4948, 0.4079, 0.4675

# Square

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



42.4948, 0.2747, 0.2176



42.4948, 0.4743, 0.3593



42.4948, 0.3331, 0.4795



42.4948, 0.1742, 0.2650



# Rectangle

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



42.4948, 0.2747, 0.2176



42.4948, 0.4121, 0.2833



42.4948, 0.3331, 0.4795



42.4948, 0.2159, 0.3730

# Sweetspot

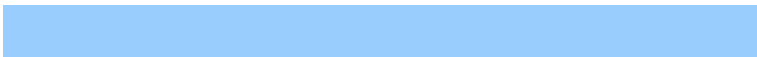
The Sweet Spot groups the original color and five complimentary colors.



42.4965, 0.2747, 0.2176



79.1421, 0.3034, 0.2983



57.6773, 0.2487, 0.2712



16.4956, 0.3023, 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.



42.4965, 0.2747, 0.2176



35.0960, 0.2643, 0.1928



50.6911, 0.3159, 0.2303



17.8106, 0.3055, 0.3050



6.0924, 0.1993, 0.0872



0.6579, 0.2116, 0.0940



# Inverse Universe

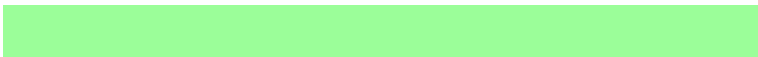
The Inverse Universe completely reimagines the original color for something new.



48.2569, 0.3611, 0.2754



41.8917, 0.3758, 0.2646



80.1252, 0.3079, 0.4514



18.1431, 0.3213, 0.3168



11.9981, 0.4903, 0.2475

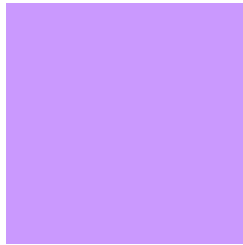


1.1903, 0.4657, 0.2339



# Previews

## White Background



This preview shows how the Yxy color 42.4948, 0.2747, 0.2176 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

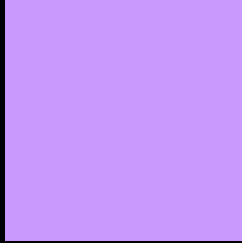
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.4948, 0.2747, 0.2176 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

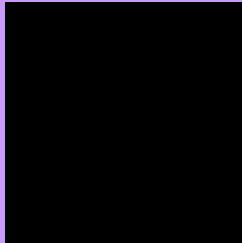
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.4948, 0.2747, 0.2176**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.4948, 0.2747, 0.2176.



This preview shows how white text looks on a background with the Yxy color 42.4948, 0.2747, 0.2176.

# 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

42.4948, 0.2747, 0.2176

### Protanopia

42.8360, 0.2375, 0.2278

### Deuteranopia

42.8090, 0.2397, 0.2338



## Tritanopia

42.3298, 0.3209, 0.3109

# Trichromacy



## Original Color

42.4948, 0.2747, 0.2176



## Protanomaly

42.2373, 0.2489, 0.2226



## Deuteranomaly

42.3445, 0.2513, 0.2275



## Tritanomaly

42.2178, 0.3028, 0.2736

# Monochromacy



## Original Color

42.4948, 0.2747, 0.2176



## Achromatopsia

45.0786, 0.3127, 0.3290



## Achromatomaly

43.7705, 0.2984, 0.2839

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.4948, 0.2747, 0.2176 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(202, 153, 254)` looks like.

```
.text, #text, p{  
    color:rgb(202, 153, 254)  
}
```

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(202, 153, 254) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 153, 254) }
```

## Border

The CSS property to change the border of an element to Yxy 42.4948, 0.2747, 0.2176 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(202, 153, 254) }
```

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

```
.border{ border-color:rgb(202, 153, 254) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 153, 254)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 153, 254); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 153, 254);  
box-shadow:4px 4px 4px 4px rgb(202, 153,  
254) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.4948, 0.2747, 0.2176 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 153, 254) }
```

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

```
.background{ background-color: rgb(202,  
153, 254) }
```

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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