

# Converting Colors

$Y_{xy}(42.2147, 0.2720, 0.2162)$

Have a look what the booklet for  
Yxy(42.2147, 0.2720, 0.2162)  
contains.

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# Color

**Yxy(42.1446, 0.2716, 0.2160)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C799FF
RGB	199, 153, 255
RGB Percent	78%, 60%, 100%
CMY	0.2197, 0.4000, 0.0000
CMYK	0.22, 0.40, 0.00, 0.00
HSL	267°, 100%, 80%
HSV	267°, 40%, 100%
XYZ	52.9929, 42.1446, 99.9764
YIQ	178.3820, -5.3260, 41.4740

# Conversions

## Conversions Part 2

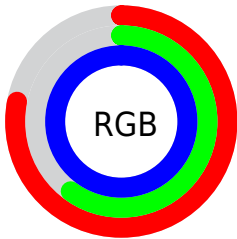
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">199, 153, 255</a>
Decimal	<a href="#">13081087</a>
CIELab	<a href="#">70.97, 36.65, -44.44</a>
CIELCh	<a href="#">71, 57.606, 309.513</a>
Yxy	<a href="#">42.1446, 0.2716, 0.2160</a>
Android (android.graphics.Color)	<a href="#">4291271167 (0xFFC799FF)</a>
YUV	<a href="#">178.3820, 37.7727, 18.0820</a>
Hunter-Lab	<a href="#">64.9189, 32.1006, -45.8646</a>

# Details

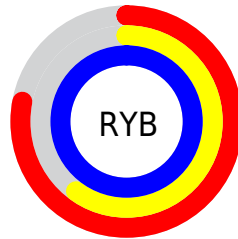
The Yxy color  $42.1446, 0.2716, 0.2160$  is a light color, and the websafe version is hex  $CC99FF$ . A complement of this color would be  $87.3806, 0.3414, 0.4399$ , and the grayscale version is  $44.5301, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $73.5918, 0.3149, 0.2831$ , and  $19.2242, 0.2588, 0.1900$  is the 20% darker color. If you saturate the color by 10%, you get  $32.8408, 0.2581, 0.1855$ , and if you desaturate by 10%, it is  $53.4074, 0.2840, 0.2466$ .

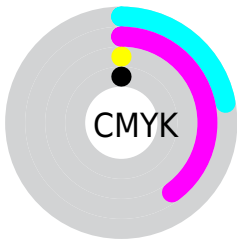
# Distribution



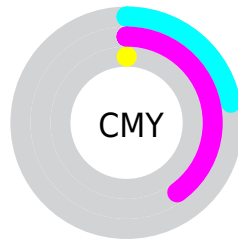
- Red (78%)
- Green (60%)
- Blue (100%)



- Red (78%)
- Yellow (60%)
- Blue (100%)



- Cyan (22%)
- Magenta (40%)
- Yellow (0%)
- Black (0%)




- Cyan (22%)
- Magenta (40%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.1446, 0.2716, 0.2160 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 42.1446, 0.2716, 0.2160 by changing the saturation by 10% instead.





 42.1446, 0.2716,  
0.2160


 42.1446, 0.2716,  
0.2160


355.0820, 0.2932,  
0.2680

 29.2145, 0.2661,  
0.2044


 78.4184, 0.2796,  
0.2338

 19.2432, 0.2590,  
0.1904


 102.5310, 0.2826,  
0.2408

 11.8461, 0.2497,  
0.1730


131.1398, 0.2850,  
0.2469

 6.6390, 0.2368,  
0.1513

164.6293, 0.2872,  
0.2522

 3.2374, 0.2186,  
0.1236

203.3839, 0.2890,  
0.2569

 1.2569, 0.1913,  
0.0884

247.7879, 0.2906,

 0.1074, 0.1534,

0.2610


0.0164


298.2258, 0.2920,  
0.2647

 0.0000, 0.0000,  
0.0000


 42.1446, 0.2716,  
0.2160


 42.1446, 0.2716,  
0.2160


 32.8408, 0.2581,  
0.1855


 53.4074, 0.2840,  
0.2466

 25.3779, 0.2438,  
0.1563


 66.7395, 0.2950,  
0.2760

 19.6226, 0.2293,  
0.1302

 82.2413, 0.3045,  
0.3036

 15.4231, 0.2152,  
0.1087

100.0000, 0.3127,  
0.3290

 12.5994, 0.2024,  
0.0929

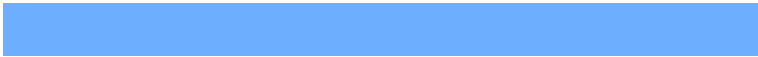
■ 10.8602, 0.1912,  
0.0827

■ 10.8596, 0.1912,  
0.0827

# Harmonies

## Analogous

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



42.1446, 0.2100, 0.2049



42.1446, 0.2716, 0.2160



42.1446, 0.3546, 0.2492

# Triad

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



42.1446, 0.2716, 0.2160



42.1446, 0.4638, 0.4170



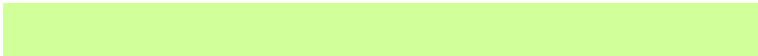
42.1446, 0.2009, 0.3460

# Complementary

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



42.1446, 0.2716, 0.2160



87.3806, 0.3414, 0.4399

# 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.



42.1446, 0.2590, 0.4343



42.1446, 0.2716, 0.2160



42.1446, 0.4110, 0.4671

# Square

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



42.1446, 0.2716, 0.2160



42.1446, 0.4751, 0.3572



42.1446, 0.3360, 0.4814



42.1446, 0.1736, 0.2667



# Rectangle

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



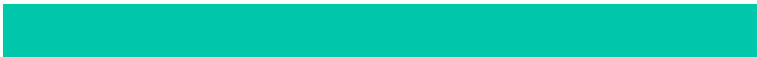
42.1446, 0.2716, 0.2160



42.1446, 0.4101, 0.2810



42.1446, 0.3360, 0.4814



42.1446, 0.2171, 0.3767

# Sweetspot

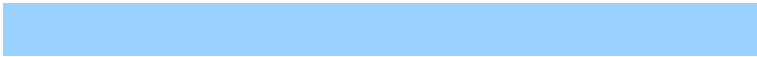
The Sweet Spot groups the original color and five complimentary colors.



42.1442, 0.2716, 0.2160



78.9568, 0.3027, 0.2983



59.6453, 0.2490, 0.2749



16.4521, 0.3015, 0.2947



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.



42.1442, 0.2716, 0.2160



34.5470, 0.2609, 0.1915



50.3112, 0.3131, 0.2289



17.7785, 0.3050, 0.3049



5.7602, 0.1929, 0.0836



0.6246, 0.2054, 0.0905



# Inverse Universe

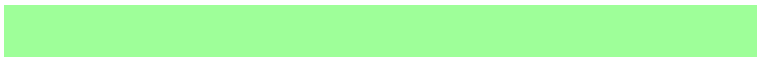
The Inverse Universe completely reimagines the original color for something new.



48.6507, 0.3581, 0.2716



42.0882, 0.3712, 0.2605



81.1004, 0.3098, 0.4516



18.1541, 0.3208, 0.3160



12.1299, 0.4755, 0.2393

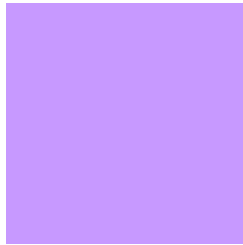


1.2031, 0.4530, 0.2269



# Previews

## White Background



This preview shows how the Yxy color 42.1446, 0.2716, 0.2160 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

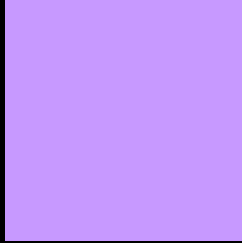
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.1446, 0.2716, 0.2160 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

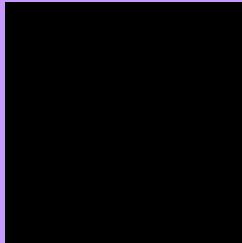
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.1446, 0.2716, 0.2160**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.1446, 0.2716, 0.2160.



This preview shows how white text looks on a background with the Yxy color 42.1446, 0.2716, 0.2160.

# 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

42.1446, 0.2716, 0.2160

### Protanopia

42.3656, 0.2367, 0.2264

### Deuteranopia

42.3097, 0.2377, 0.2313



## Tritanopia

42.1924, 0.3171, 0.3120

# Trichromacy



## Original Color

42.1446, 0.2716, 0.2160



## Protanomaly

41.7703, 0.2481, 0.2212



## Deuteranomaly

41.7251, 0.2486, 0.2248



## Tritanomaly

41.8742, 0.2994, 0.2720

# Monochromacy



## Original Color

42.1446, 0.2716, 0.2160



## Achromatopsia

44.5201, 0.3127, 0.3290



## Achromatomaly

43.2713, 0.2975, 0.2825

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.1446, 0.2716, 0.2160 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(199, 153, 255)` looks like.

```
.text, #text, p{  
    color:rgb(199, 153, 255)  
}
```

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(199, 153, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 153, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 42.1446, 0.2716, 0.2160 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(199, 153, 255) }
```

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

```
.border{ border-color:rgb(199, 153, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(199, 153, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 153, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 153, 255);  
box-shadow:4px 4px 4px 4px rgb(199, 153,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.1446, 0.2716, 0.2160 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 153, 255) }
```

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

```
.background{ background-color: rgb(199,  
153, 255) }
```

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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