

# Converting Colors

$Y_{xy}(42.1910, 0.2645, 0.2238)$

Have a look what the booklet for  
Yxy(42.1910, 0.2645, 0.2238)  
contains.

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# Color

**Yxy(42.0756, 0.2641, 0.2230)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B99FFB
RGB	185, 159, 251
RGB Percent	73%, 62%, 98%
CMY	0.2743, 0.3765, 0.0156
CMYK	0.26, 0.37, 0.00, 0.02
HSL	257°, 92%, 80%
HSV	257°, 37%, 98%
XYZ	49.8303, 42.0756, 96.7739
YIQ	177.2620, -14.0360, 34.1240

# Conversions

## Conversions Part 2

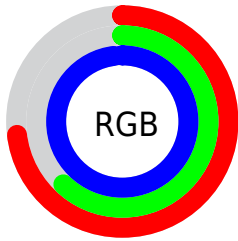
Format	Color
<a href="#">RYB</a>	<a href="#">185, 159, 251</a>
Decimal	<a href="#">12165115</a>
CIELab	<a href="#">70.92, 28.50, -42.43</a>
CIElCh	<a href="#">71, 51.111, 303.894</a>
Yxy	<a href="#">42.0756, 0.2641, 0.2230</a>
Android (android.graphics.Color)	<a href="#">4290355195</a> ( <a href="#">0xFFB99FFB</a> )
YUV	<a href="#">177.2620, 36.3528, 6.7862</a>
Hunter-Lab	<a href="#">64.8657, 23.6101, -43.0494</a>

# Details

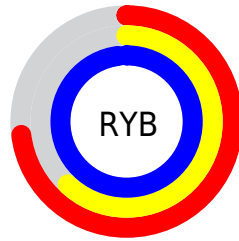
The Yxy color **42.0756, 0.2641, 0.2230** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **87.5037, 0.3499, 0.4264**, and the grayscale version is **43.9260, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.3678, 0.3062, 0.2880**, and **19.1563, 0.2500, 0.1979** is the 20% darker color. If you saturate the color by 10%, you get **32.2060, 0.2472, 0.1902**, and if you desaturate by 10%, it is **53.9843, 0.2796, 0.2549**.

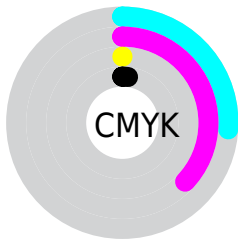
# Distribution



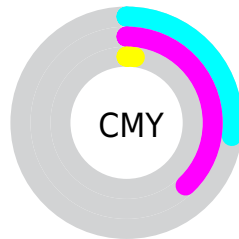
- Red (73%)
- Green (62%)
- Blue (98%)



- Red (73%)
- Yellow (62%)
- Blue (98%)



- Cyan (26%)
- Magenta (37%)
- Yellow (0%)
- Black (2%)




- Cyan (27%)
- Magenta (38%)
- Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.0756, 0.2641, 0.2230 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 42.0756, 0.2641, 0.2230 by changing the saturation by 10% instead.





 42.0756, 0.2641,  
0.2230


 42.0756, 0.2641,  
0.2230


354.7962, 0.2891,  
0.2725

 29.1605, 0.2578,  
0.2118


 78.3140, 0.2732,  
0.2401

 19.2023, 0.2499,  
0.1982


 102.4061, 0.2767,  
0.2468

 11.8165, 0.2394,  
0.1811


130.9927, 0.2795,  
0.2525

 6.6189, 0.2252,  
0.1595

164.4581, 0.2820,  
0.2576

 3.2249, 0.2051,  
0.1316

203.1868, 0.2841,  
0.2620

 1.2503, 0.1754,  
0.0955

247.5631, 0.2860,

 0.1022, 0.1346,

0.2659

0.0173

297.9715, 0.2876,  
0.2693

0.0000, 0.0000,  
0.0000

42.0756, 0.2641,  
0.2230

42.0756, 0.2641,  
0.2230

32.2060, 0.2472,  
0.1902

53.9843, 0.2796,  
0.2549

24.2532, 0.2296,  
0.1579

68.0350, 0.2935,  
0.2849

18.0892, 0.2120,  
0.1281

84.3292, 0.3056,  
0.3123

13.5681, 0.1955,  
0.1029

99.7460, 0.3150,  
0.3328

10.5193, 0.1811,  
0.0839

■ 8.7309, 0.1698,  
0.0720

■ 8.3105, 0.1666,  
0.0692

# Harmonies

## Analogous

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



42.0756, 0.2125, 0.2175



42.0756, 0.2641, 0.2230



42.0756, 0.3360, 0.2500

# Triad

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



42.0756, 0.2641, 0.2230



42.0756, 0.4536, 0.4007



42.0756, 0.2205, 0.3598

# Complementary

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



42.0756, 0.2641, 0.2230



87.5037, 0.3499, 0.4264

# 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.



42.0756, 0.2779, 0.4328



42.0756, 0.2641, 0.2230



42.0756, 0.4132, 0.4470

# Square

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



42.0756, 0.2641, 0.2230



42.0756, 0.4538, 0.3461



42.0756, 0.3485, 0.4649



42.0756, 0.1894, 0.2858



# Rectangle

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



42.0756, 0.2641, 0.2230



42.0756, 0.3863, 0.2775



42.0756, 0.3485, 0.4649



42.0756, 0.2371, 0.3863

# Sweetspot

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



42.0772, 0.2641, 0.2230



79.7757, 0.3005, 0.3007



68.1523, 0.2570, 0.2988



16.5850, 0.2989, 0.2970



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.



42.0772, 0.2641, 0.2230



35.8720, 0.2518, 0.1988



48.7568, 0.3005, 0.2334



16.8811, 0.3023, 0.3048



4.4308, 0.1681, 0.0699



0.4614, 0.1802, 0.0766



# Inverse Universe

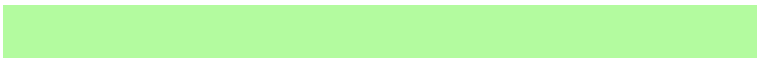
The Inverse Universe completely reimagines the original color for something new.



50.7343, 0.3390, 0.2615



46.1838, 0.3460, 0.2482



81.0808, 0.3195, 0.4366



17.4358, 0.3182, 0.3122



12.5362, 0.4085, 0.2024

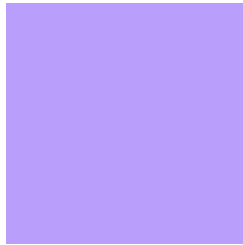


1.1792, 0.3956, 0.1953



# Previews

## White Background



This preview shows how the Yxy color 42.0756, 0.2641, 0.2230 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

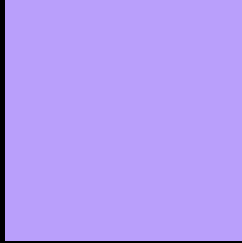
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.0756, 0.2641, 0.2230 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

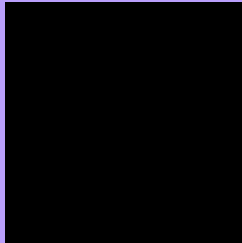
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.0756, 0.2641, 0.2230**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.0756, 0.2641, 0.2230.



This preview shows how white text looks on a background with the Yxy color 42.0756, 0.2641, 0.2230.

# 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

42.0756, 0.2641, 0.2230

### Protanopia

42.3656, 0.2367, 0.2264

### Deuteranopia

42.3021, 0.2405, 0.2345



## Tritanopia

41.9345, 0.3022, 0.3102

# Trichromacy



## Original Color

42.0756, 0.2641, 0.2230

## Protanomaly

42.2668, 0.2458, 0.2249

## Deuteranomaly

41.9506, 0.2486, 0.2296

## Tritanomaly

41.6377, 0.2869, 0.2741

# Monochromacy



## Original Color

42.0756, 0.2641, 0.2230

## Achromatopsia

43.9657, 0.3127, 0.3290

## Achromatomaly

42.8124, 0.2940, 0.2855

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.0756, 0.2641, 0.2230 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(185, 159, 251)` looks like.

```
.text, #text, p{  
    color:rgb(185, 159, 251)  
}
```

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(185, 159, 251) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(185, 159, 251) }
```

## Border

The CSS property to change the border of an element to Yxy 42.0756, 0.2641, 0.2230 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(185, 159, 251) }
```

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

```
.border{ border-color:rgb(185, 159, 251) }
```

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

Here you see how a box with a 4 pixel `rgb(185, 159, 251)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(185, 159, 251); -webkit-box-  
shadow:4px 4px 4px 4px rgb(185, 159, 251);  
box-shadow:4px 4px 4px 4px rgb(185, 159,  
251) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.0756, 0.2641, 0.2230 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(185, 159, 251) }
```

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

```
.background{ background-color: rgb(185,  
159, 251) }
```

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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