

# Converting Colors

$Y_{xy}(38.7153, 0.2812, 0.2318)$

Have a look what the booklet for  
Yxy(38.7153, 0.2812, 0.2318)  
contains.

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# Color

**Yxy(38.7153, 0.2812, 0.2318)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BF96E8
RGB	191, 150, 232
RGB Percent	75%, 59%, 91%
CMY	0.2508, 0.4118, 0.0902
CMYK	0.18, 0.35, 0.00, 0.09
HSL	270°, 64%, 75%
HSV	270°, 35%, 91%
XYZ	46.9661, 38.7153, 81.3389
YIQ	171.6070, -1.8860, 34.1940

# Conversions

## Conversions Part 2

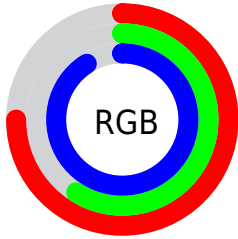
Format	Color
<a href="#">RYB</a>	<a href="#">191, 150, 232</a>
Decimal	<a href="#">12556008</a>
CIELab	<a href="#">68.54, 30.88, -35.71</a>
CIElCh	<a href="#">69, 47.204, 310.852</a>
Yxy	<a href="#">38.7153, 0.2812, 0.2318</a>
Android (android.graphics.Color)	<a href="#">4290746088</a> <a href="#">(0xFFBF96E8)</a>
YUV	<a href="#">171.6070, 29.7737, 17.0077</a>
Hunter-Lab	<a href="#">62.2216, 25.8475, -33.9514</a>

# Details

The Yxy color **38.7153, 0.2812, 0.2318** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **70.9812, 0.3355, 0.4265**, and the grayscale version is **40.8964, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.8391, 0.3099, 0.2794**, and **17.2925, 0.2706, 0.2084** is the 20% darker color. If you saturate the color by 10%, you get **30.5888, 0.2695, 0.2019**, and if you desaturate by 10%, it is **48.4293, 0.2917, 0.2613**.

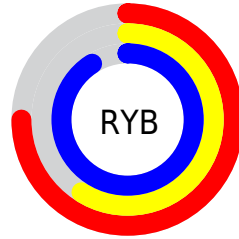
# Distribution



Red (75%)

Green (59%)

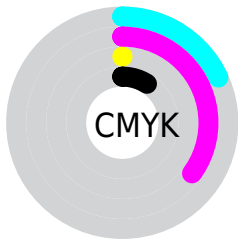
Blue (91%)



Red (75%)

Yellow (59%)

Blue (91%)

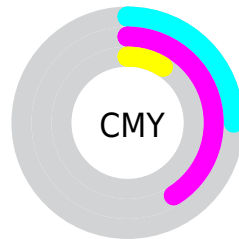


Cyan (18%)

Magenta (35%)

Yellow (0%)

Black (9%)



Cyan (25%)

Magenta (41%)


Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.7153, 0.2812, 0.2318 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 38.7153, 0.2812, 0.2318 by changing the saturation by 10% instead.





 38.7153, 0.2812,  
0.2318


 38.7153, 0.2812,  
0.2318


340.6785, 0.2982,  
0.2780

 26.5383, 0.2767,  
0.2211


 73.2032, 0.2876,  
0.2480

 17.2268, 0.2708,  
0.2078


 96.2829, 0.2899,  
0.2543

 10.3963, 0.2629,  
0.1910

123.7656, 0.2919,  
0.2596

 5.6625, 0.2516,  
0.1692

156.0358, 0.2935,  
0.2643

 2.6410, 0.2347,  
0.1403

193.4778, 0.2949,  
0.2684

 0.9473, 0.2075,  
0.1013

236.4759, 0.2962,


 0.0000, 0.1642,


0.2720

0.0000

285.4147, 0.2972,  
0.2752


 0.0000, 0.0000,  
0.0000

 38.7153, 0.2812,  
0.2318


 38.7153, 0.2812,  
0.2318


 30.5888, 0.2695,  
0.2019

 48.4293, 0.2917,  
0.2613


 23.9555, 0.2568,  
0.1728

 59.8086, 0.3010,  
0.2895

 18.7179, 0.2435,  
0.1459

 72.9312, 0.3090,  
0.3158

 14.7647, 0.2302,  
0.1229

 87.8689, 0.3157,  
0.3400

 11.9666, 0.2175,  
0.1048

 97.4797, 0.3223,  
0.3515

■ 10.1652, 0.2060,  
0.0925

■ 98.6061, 0.3262,  
0.3513

■ 9.5502, 0.2011,  
0.0881

# Harmonies

## Analogous

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



38.7153, 0.2263, 0.2215



38.7153, 0.2812, 0.2318



38.7153, 0.3520, 0.2619

# Triad

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



38.7153, 0.2812, 0.2318



38.7153, 0.4412, 0.4097



38.7153, 0.2155, 0.3410

# Complementary

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



38.7153, 0.2812, 0.2318



70.9812, 0.3355, 0.4265

# 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.



38.7153, 0.2655, 0.4132



38.7153, 0.2812, 0.2318



38.7153, 0.3962, 0.4488

# Square

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



38.7153, 0.2812, 0.2318



38.7153, 0.4507, 0.3583



38.7153, 0.3316, 0.4551



38.7153, 0.1919, 0.2751



# Rectangle

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



38.7153, 0.2812, 0.2318



38.7153, 0.3978, 0.2905



38.7153, 0.3316, 0.4551



38.7153, 0.2295, 0.3661

# Sweetspot

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



38.7169, 0.2812, 0.2318



80.8307, 0.3046, 0.3010



49.5666, 0.2559, 0.2772



16.8357, 0.3035, 0.2974



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.



38.7169, 0.2812, 0.2318



40.8589, 0.2733, 0.2112



44.7895, 0.3168, 0.2415



14.2399, 0.3058, 0.3053



5.3770, 0.2027, 0.0890



0.4526, 0.2185, 0.0977



# Inverse Universe

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



42.7221, 0.3549, 0.2830



46.6431, 0.3665, 0.2740



66.3960, 0.3077, 0.4353



14.4874, 0.3214, 0.3173



10.2476, 0.4957, 0.2504

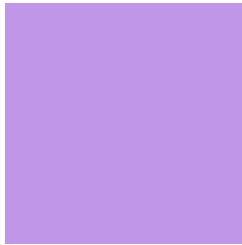


0.7760, 0.4633, 0.2326



# Previews

## White Background



This preview shows how the Yxy color 38.7153, 0.2812, 0.2318 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

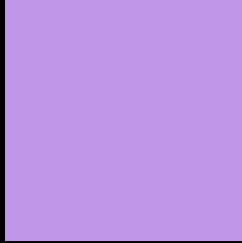
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.7153, 0.2812, 0.2318 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

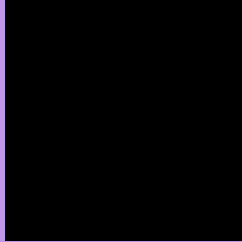
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.7153, 0.2812, 0.2318**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.7153, 0.2812, 0.2318.



This preview shows how white text looks on a background with the Yxy color 38.7153, 0.2812, 0.2318.

# 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

38.7153, 0.2812, 0.2318

### Protanopia

39.1046, 0.2386, 0.2289

### Deuteranopia

38.8633, 0.2516, 0.2457



## Tritanopia

38.7204, 0.3201, 0.3128

# Trichromacy



**Original Color**

38.7153, 0.2812, 0.2318

**Protanomaly**

38.8038, 0.2519, 0.2295

**Deuteranomaly**

38.7473, 0.2618, 0.2406

**Tritanomaly**

38.7081, 0.3057, 0.2812

# Monochromacy



**Original Color**

38.7153, 0.2812, 0.2318

**Achromatopsia**

41.2543, 0.3127, 0.3290

**Achromatomaly**

40.0297, 0.3010, 0.2896

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.7153, 0.2812, 0.2318 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(191, 150, 232)` looks like.

```
.text, #text, p{  
    color:rgb(191, 150, 232)  
}
```

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(191, 150, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(191, 150, 232) }
```

## Border

The CSS property to change the border of an element to Yxy 38.7153, 0.2812, 0.2318 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(191, 150, 232) }
```

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

```
.border{ border-color:rgb(191, 150, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(191, 150, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(191, 150, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(191, 150, 232);  
box-shadow:4px 4px 4px 4px rgb(191, 150,  
232) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.7153, 0.2812, 0.2318 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(191, 150, 232) }
```

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

```
.background{ background-color: rgb(191,  
150, 232) }
```

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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