

# Converting Colors

$Y_{xy}(38.6383, 0.2815, 0.2014)$

Have a look what the booklet for  
Yxy(38.6383, 0.2815, 0.2014)  
contains.

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# Color

**Yxy(38.5450, 0.2811, 0.2012)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D487FF
RGB	212, 135, 255
RGB Percent	83%, 53%, 100%
CMY	0.1688, 0.4705, 0.0001
CMYK	0.17, 0.47, 0.00, 0.00
HSL	278°, 100%, 76%
HSV	278°, 47%, 100%
XYZ	53.8519, 38.5450, 99.1787
YIQ	171.7030, 7.3720, 53.6440

# Conversions

## Conversions Part 2

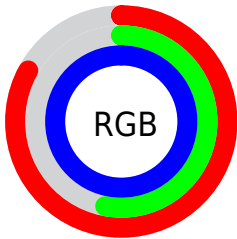
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	212, 135, 255
Decimal	13928447
CIE Lab	68.42, 49.86, -48.32
CIE LCh	68, 69.429, 315.896
Yxy	38.5450, 0.2811, 0.2012
Android (android.graphics.Color)	4292118527 (0xFFD487FF)
YUV	171.7030, 41.0654, 35.3405
Hunter-Lab	62.0846, 46.1819, -51.2551

# Details

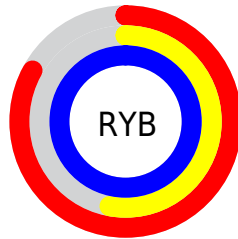
The Yxy color **38.5450, 0.2811, 0.2012** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **82.7169, 0.3304, 0.4673**, and the grayscale version is **40.8852, 0.3127, 0.3290**.

A 20% lighter version of the original color is **65.3069, 0.3157, 0.2653**, and **17.0804, 0.2696, 0.1723** is the 20% darker color. If you saturate the color by 10%, you get **30.9413, 0.2719, 0.1747**, and if you desaturate by 10%, it is **47.9322, 0.2896, 0.2292**.

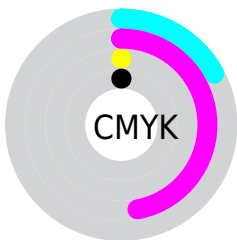
# Distribution



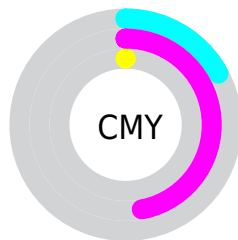
- Red (83%)
- Green (53%)
- Blue (100%)



- Red (83%)
- Yellow (53%)
- Blue (100%)



- Cyan (17%)
- Magenta (47%)
- Yellow (0%)
- Black (0%)




- Cyan (17%)
- Magenta (47%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.5450, 0.2811, 0.2012 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 38.5450, 0.2811, 0.2012 by changing the saturation by 10% instead.





 38.5450, 0.2811,  
0.2012


 38.5450, 0.2811,  
0.2012


339.9521, 0.2989,  
0.2594


 26.4060, 0.2763,  
0.1885


 72.9427, 0.2879,  
0.2210

 17.1276, 0.2700,  
0.1731


 95.9702, 0.2904,  
0.2288

 10.3255, 0.2615,  
0.1543


 123.3959, 0.2924,  
0.2356

 5.6153, 0.2495,  
0.1311

155.6043, 0.2941,  
0.2416

 2.6126, 0.2320,  
0.1024

192.9797, 0.2956,  
0.2468

 0.9330, 0.2051,  
0.0674

235.9065, 0.2969,

 0.0000, 0.1669,

0.2515

0.0000

284.7692, 0.2980,  
0.2557


 0.0000, 0.0000,  
0.0000


 38.5450, 0.2811,  
0.2012


 38.5450, 0.2811,  
0.2012


 30.9413, 0.2719,  
0.1747


 47.9322, 0.2896,  
0.2292


 24.9915, 0.2622,  
0.1510


 59.2107, 0.2971,  
0.2575

 20.5556, 0.2523,  
0.1313

 72.4852, 0.3037,  
0.2852

 17.4676, 0.2426,  
0.1166

 87.8512, 0.3093,  
0.3115

 15.5158, 0.2335,  
0.1069

99.9977, 0.3127,  
0.3290

■ 15.0616, 0.2309,  
0.1046

# Harmonies

## Analogous

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



38.5450, 0.2018, 0.1822



38.5450, 0.2811, 0.2012



38.5450, 0.3862, 0.2441

# Triad

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



38.5450, 0.2811, 0.2012



38.5450, 0.4824, 0.4428



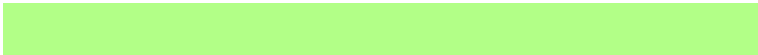
38.5450, 0.1674, 0.3235

# Complementary

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



38.5450, 0.2811, 0.2012



82.7169, 0.3304, 0.4673

# 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.



38.5450, 0.2270, 0.4413



38.5450, 0.2811, 0.2012



38.5450, 0.4083, 0.5046

# Square

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



38.5450, 0.2811, 0.2012



38.5450, 0.5134, 0.3716



38.5450, 0.3156, 0.5167



38.5450, 0.1457, 0.2350



# Rectangle

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



38.5450, 0.2811, 0.2012



38.5450, 0.4526, 0.2827



38.5450, 0.3156, 0.5167



38.5450, 0.1830, 0.3620

# Sweetspot

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



38.5466, 0.2811, 0.2012



76.9522, 0.3055, 0.2933



44.6151, 0.2329, 0.2353



15.7911, 0.3042, 0.2875



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.



38.5466, 0.2811, 0.2012



31.6612, 0.2729, 0.1773



44.8212, 0.3321, 0.2274



17.9556, 0.3080, 0.3052



7.9596, 0.2323, 0.1053



0.8365, 0.2424, 0.1109



# Inverse Universe

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



41.8066, 0.3944, 0.2846



35.5514, 0.4191, 0.2775



78.8862, 0.2984, 0.4586



18.0947, 0.3238, 0.3205



11.5332, 0.5550, 0.2831



1.1429, 0.5236, 0.2658



# Previews

## White Background



This preview shows how the Yxy color 38.5450, 0.2811, 0.2012 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

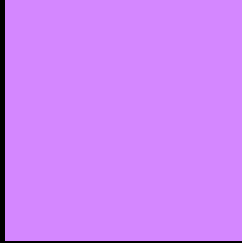
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.5450, 0.2811, 0.2012 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 38.5450, 0.2811, 0.2012**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.5450, 0.2811, 0.2012.



This preview shows how white text looks on a background with the Yxy color 38.5450, 0.2811, 0.2012.

# 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

38.5450, 0.2811, 0.2012

### Protanopia

38.8393, 0.2287, 0.2159

### Deuteranopia

38.8578, 0.2298, 0.2236



## Tritanopia

38.2385, 0.3443, 0.3136

# Trichromacy



## Original Color

38.5450, 0.2811, 0.2012



## Protanomaly

37.6838, 0.2442, 0.2075



## Deuteranomaly

37.8813, 0.2454, 0.2131



## Tritanomaly

37.9998, 0.3195, 0.2667

# Monochromacy



## Original Color

38.5450, 0.2811, 0.2012



## Achromatopsia

41.2543, 0.3127, 0.3290



## Achromatomaly

39.6253, 0.3016, 0.2744

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.5450, 0.2811, 0.2012 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(212, 135, 255)` looks like.

```
.text, #text, p{  
    color:rgb(212, 135, 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(212, 135, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(212, 135, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 38.5450, 0.2811, 0.2012 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(212, 135, 255) }
```

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

```
.border{ border-color:rgb(212, 135, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(212, 135, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(212, 135, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(212, 135, 255); box-shadow:4px 4px 4px 4px rgb(212, 135, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.5450, 0.2811, 0.2012 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(212, 135, 255) }
```

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

```
.background{ background-color: rgb(212,  
135, 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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