

# Converting Colors

$Y_{xy}(38.2127, 0.2954, 0.2123)$

Have a look what the booklet for  
Yxy(38.2127, 0.2954, 0.2123)  
contains.

<b>Yxy(38.2127, 0.2954, 0.2123)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(38.2127, 0.2954, 0.2123)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D986F2
RGB	217, 134, 242
RGB Percent	85%, 53%, 95%
CMY	0.1491, 0.4745, 0.0508
CMYK	0.10, 0.45, 0.00, 0.05
HSL	286°, 81%, 74%
HSV	286°, 45%, 95%
XYZ	53.1702, 38.2127, 88.6110
YIQ	171.1290, 14.8000, 51.1840

# Conversions

## Conversions Part 2

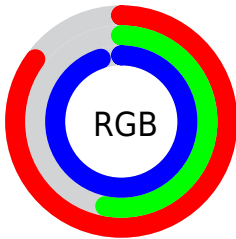
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	217, 134, 242
Decimal	14255858
CIE Lab	68.18, 49.15, -41.59
CIE LCh	68, 64.388, 319.761
Yxy	38.2127, 0.2954, 0.2123
Android (android.graphics.Color)	4292445938 (0xFFD986F2)
YUV	171.1290, 34.9394, 40.2289
Hunter-Lab	61.8164, 45.3546, -41.7180

# Details

The Yxy color **38.2127, 0.2954, 0.2123** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **72.6273, 0.3210, 0.4628**, and the grayscale version is **40.6094, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.8752, 0.3157, 0.2644**, and **16.8612, 0.2884, 0.1856** is the 20% darker color. If you saturate the color by 10%, you get **31.4265, 0.2899, 0.1876**, and if you desaturate by 10%, it is **46.5623, 0.3004, 0.2387**.

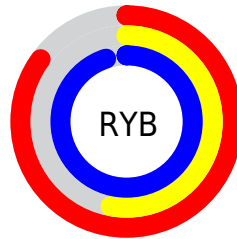
# Distribution



Red (85%)

Green (53%)

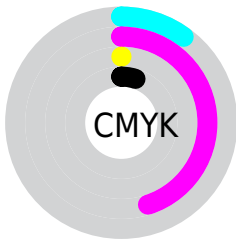
Blue (95%)



Red (85%)

Yellow (53%)

Blue (95%)

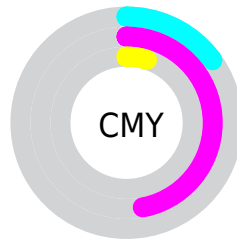


Cyan (10%)

Magenta (45%)

Yellow (0%)

Black (5%)



Cyan (15%)

Magenta (47%)


Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.2127, 0.2954, 0.2123 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 38.2127, 0.2954, 0.2123 by changing the saturation by 10% instead.





 38.2127, 0.2954,  
0.2123


 38.2127, 0.2954,  
0.2123


338.5315, 0.3060,  
0.2662

 26.1478, 0.2923,  
0.2002

 72.4340, 0.2996,  
0.2308

 16.9343, 0.2881,  
0.1856

 95.3593, 0.3011,  
0.2381

 10.1876, 0.2822,  
0.1674


 122.6734, 0.3023,  
0.2444

 5.5235, 0.2737,  
0.1446

154.7609, 0.3033,  
0.2499

 2.5576, 0.2604,  
0.1155

192.0060, 0.3042,  
0.2547

 0.9054, 0.2383,  
0.0787

234.7932, 0.3049,

 0.0000, 0.2064,

0.2590

0.0000

283.5069, 0.3055,  
0.2628

0.0000, 0.0000,  
0.0000

38.2127, 0.2954,  
0.2123

38.2127, 0.2954,  
0.2123

31.4265, 0.2899,  
0.1876

46.5623, 0.3004,  
0.2387

26.0926, 0.2839,  
0.1656

56.5666, 0.3047,  
0.2656

22.0933, 0.2776,  
0.1475

68.3155, 0.3084,  
0.2921

19.2894, 0.2713,  
0.1339

81.8909, 0.3115,  
0.3176

17.5108, 0.2651,  
0.1250

97.3553, 0.3140,  
0.3417

 16.8427, 0.2619,  
0.1216

 98.3803, 0.3175,  
0.3415

 99.1934, 0.3202,  
0.3414

# Harmonies

## Analogous

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



38.2127, 0.2163, 0.1911



38.2127, 0.2954, 0.2123



38.2127, 0.3942, 0.2559

# Triad

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



38.2127, 0.2954, 0.2123



38.2127, 0.4662, 0.4468



38.2127, 0.1714, 0.3120

# Complementary

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



38.2127, 0.2954, 0.2123



72.6273, 0.3210, 0.4628

# 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.



38.2127, 0.2240, 0.4192



38.2127, 0.2954, 0.2123



38.2127, 0.3938, 0.4988

# Square

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



38.2127, 0.2954, 0.2123



38.2127, 0.5002, 0.3801



38.2127, 0.3056, 0.4976



38.2127, 0.1544, 0.2341



# Rectangle

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



38.2127, 0.2954, 0.2123



38.2127, 0.4530, 0.2939



38.2127, 0.3056, 0.4976



38.2127, 0.1849, 0.3463

# Sweetspot

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



38.2143, 0.2954, 0.2123



79.2141, 0.3089, 0.2963



36.3506, 0.2340, 0.2221



16.2756, 0.3082, 0.2905



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.



38.2143, 0.2954, 0.2123



35.7121, 0.2901, 0.1887



40.7512, 0.3448, 0.2456



15.8359, 0.3101, 0.3055



9.1093, 0.2629, 0.1222



0.8021, 0.2709, 0.1266



# Inverse Universe

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



38.4403, 0.4036, 0.3017



36.2298, 0.4350, 0.2969



71.2358, 0.2917, 0.4312



15.8189, 0.3257, 0.3235



10.3123, 0.5984, 0.3070

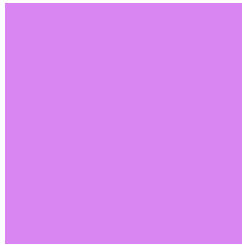


0.8727, 0.5620, 0.2870



# Previews

## White Background



This preview shows how the Yxy color 38.2127, 0.2954, 0.2123 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

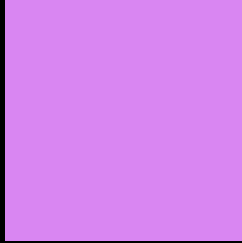
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.2127, 0.2954, 0.2123 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

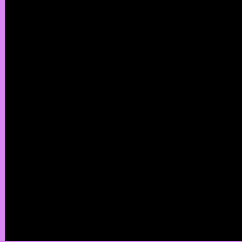
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.2127, 0.2954, 0.2123**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.2127, 0.2954, 0.2123.

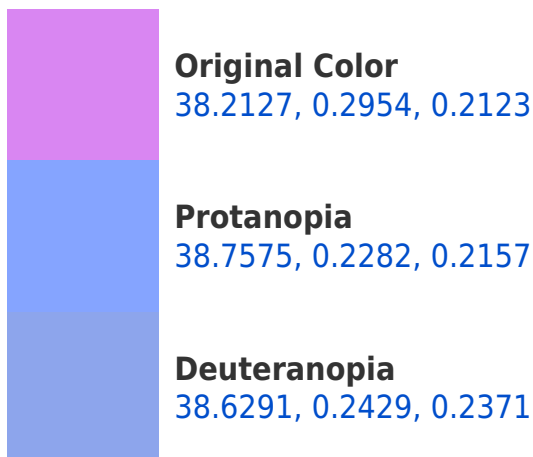


This preview shows how white text looks on a background with the Yxy color 38.2127, 0.2954, 0.2123.

# 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





## Tritanopia

38.2226, 0.3570, 0.3152

# Trichromacy



## Original Color

38.2127, 0.2954, 0.2123



## Protanomaly

37.5771, 0.2485, 0.2124



## Deuteranomaly

37.7193, 0.2597, 0.2259



## Tritanomaly

37.7582, 0.3332, 0.2722

# Monochromacy



## Original Color

38.2127, 0.2954, 0.2123



## Achromatopsia

40.7240, 0.3127, 0.3290



## Achromatomaly

39.1763, 0.3067, 0.2792

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.2127, 0.2954, 0.2123 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(217, 134, 242)` looks like.

```
.text, #text, p{  
    color:rgb(217, 134, 242)  
}
```

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(217, 134, 242) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(217, 134, 242) }
```

## Border

The CSS property to change the border of an element to Yxy 38.2127, 0.2954, 0.2123 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(217, 134, 242) }
```

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

```
.border{ border-color:rgb(217, 134, 242) }
```

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

Here you see how a box with a 4 pixel `rgb(217, 134, 242)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(217, 134, 242); -webkit-box-  
shadow:4px 4px 4px 4px rgb(217, 134, 242);  
box-shadow:4px 4px 4px 4px rgb(217, 134,  
242) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.2127, 0.2954, 0.2123 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(217, 134, 242) }
```

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

```
.background{ background-color: rgb(217,  
134, 242) }
```

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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