

# Converting Colors

$Y_{xy}(46.6167, 0.3032, 0.2445)$

Have a look what the booklet for  
Yxy(46.6167, 0.3032, 0.2445)  
contains.

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# Color

**Yxy(46.7856, 0.3038, 0.2451)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DEA0ED
RGB	222, 160, 237
RGB Percent	87%, 63%, 93%
CMY	0.1293, 0.3726, 0.0705
CMYK	0.06, 0.32, 0.00, 0.07
HSL	288°, 68%, 78%
HSV	288°, 32%, 93%
XYZ	57.9905, 46.7856, 86.1076
YIQ	187.3160, 12.2350, 37.0910

# Conversions

## Conversions Part 2

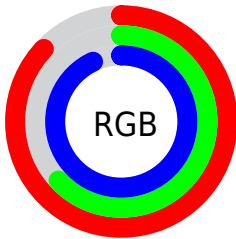
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	222, 160, 237
Decimal	14590189
CIE Lab	74.05, 35.92, -29.69
CIE LCh	74, 46.599, 320.424
Yxy	46.7856, 0.3038, 0.2451
Android (android.graphics.Color)	4292780269 (0xFFDEA0ED)
YUV	187.3160, 24.4942, 30.4179
Hunter-Lab	68.4000, 31.6348, -26.7592

# Details

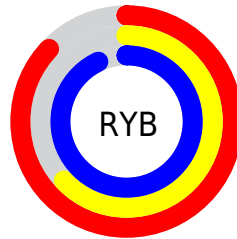
The Yxy color **46.7856, 0.3038, 0.2451** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **72.2267, 0.3178, 0.4227**, and the grayscale version is **49.7376, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.0809, 0.3145, 0.2900**, and **21.9586, 0.3002, 0.2248** is the 20% darker color. If you saturate the color by 10%, you get **38.6211, 0.2999, 0.2191**, and if you desaturate by 10%, it is **56.5404, 0.3071, 0.2716**.

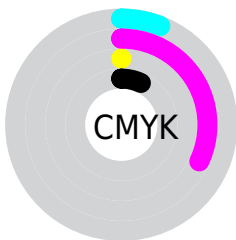
# Distribution



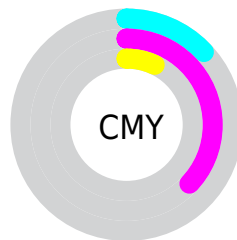
- Red (87%)
- Green (63%)
- Blue (93%)



- Red (87%)
- Yellow (63%)
- Blue (93%)



- Cyan (6%)
- Magenta (32%)
- Yellow (0%)
- Black (7%)



- Cyan (13%)
- Magenta (37%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.7856, 0.3038, 0.2451 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 46.7856, 0.3038, 0.2451 by changing the saturation by 10% instead.




 46.7856, 0.3038,  
0.2451


 46.7856, 0.3038,  
0.2451

373.9581, 0.3092,  
0.2840

 32.8662, 0.3022,  
0.2363


 85.3935, 0.3059,  
0.2586

 22.0240, 0.3001,  
0.2254


 110.8508, 0.3067,  
0.2638

 13.8745, 0.2972,  
0.2117


140.9228, 0.3073,  
0.2684

 8.0334, 0.2928,  
0.1941

175.9940, 0.3078,  
0.2723

 4.1164, 0.2860,  
0.1707

216.4487, 0.3083,  
0.2758

 1.7389, 0.2744,  
0.1385

262.6714, 0.3086,

 0.4486, 0.2554,

0.2788

0.0823

315.0464, 0.3089,  
0.2816

0.0000, 0.1507,  
0.0000

0.0000, 0.0000,  
0.0000

46.7856, 0.3038,  
0.2451

46.7856, 0.3038,  
0.2451

38.6211, 0.2999,  
0.2191

56.5404, 0.3071,  
0.2716

31.9514, 0.2955,  
0.1946

67.9619, 0.3099,  
0.2978

26.6801, 0.2907,  
0.1727

81.1287, 0.3122,  
0.3229

22.6968, 0.2856,  
0.1544

96.1126, 0.3140,  
0.3466

■ 19.8745, 0.2804,  
0.1406

■ 97.0633, 0.3169,  
0.3467

■ 18.0597, 0.2752,  
0.1313

■ 97.9032, 0.3198,  
0.3465

■ 17.1810, 0.2713,  
0.1268

■ 98.7640, 0.3228,  
0.3464

■ 98.8955, 0.3232,  
0.3463

# Harmonies

## Analogous

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



46.7856, 0.2463, 0.2291



46.7856, 0.3038, 0.2451



46.7856, 0.3704, 0.2786

# Triad

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



46.7856, 0.3038, 0.2451



46.7856, 0.4222, 0.4187



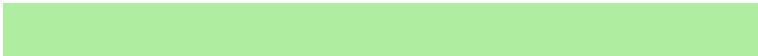
46.7856, 0.2121, 0.3192

# Complementary

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



46.7856, 0.3038, 0.2451



72.2267, 0.3178, 0.4227

# 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.



46.7856, 0.2519, 0.3868



46.7856, 0.3038, 0.2451



46.7856, 0.3732, 0.4464

# Square

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



46.7856, 0.3038, 0.2451



46.7856, 0.4424, 0.3731



46.7856, 0.3107, 0.4374



46.7856, 0.1980, 0.2645



# Rectangle

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



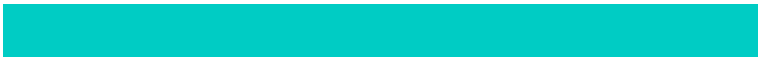
46.7856, 0.3038, 0.2451



46.7856, 0.4088, 0.3078



46.7856, 0.3107, 0.4374



46.7856, 0.2227, 0.3415

# Sweetspot

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



46.7876, 0.3038, 0.2451



83.8671, 0.3105, 0.3041



44.4009, 0.2569, 0.2524



17.5021, 0.3102, 0.3005



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.



46.7876, 0.3038, 0.2451



48.6203, 0.3013, 0.2277



47.9950, 0.3363, 0.2707



15.1572, 0.3107, 0.3056



9.4341, 0.2722, 0.1273



0.7786, 0.2793, 0.1312



# Inverse Universe

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



46.2386, 0.3731, 0.3124



47.9771, 0.3913, 0.3089



71.4737, 0.2953, 0.3956



15.1019, 0.3262, 0.3244



9.9524, 0.6086, 0.3126

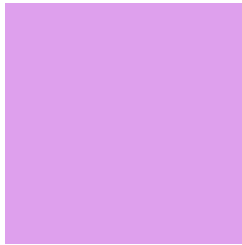


0.7947, 0.5715, 0.2922



# Previews

## White Background



This preview shows how the Yxy color 46.7856, 0.3038, 0.2451 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

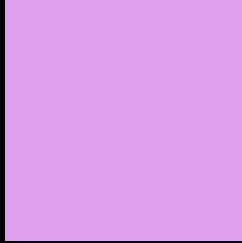
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.7856, 0.3038, 0.2451 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

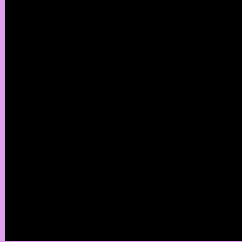
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.7856, 0.3038, 0.2451**

## Background



This preview shows how black text looks on a background with the Yxy color 46.7856, 0.3038, 0.2451.

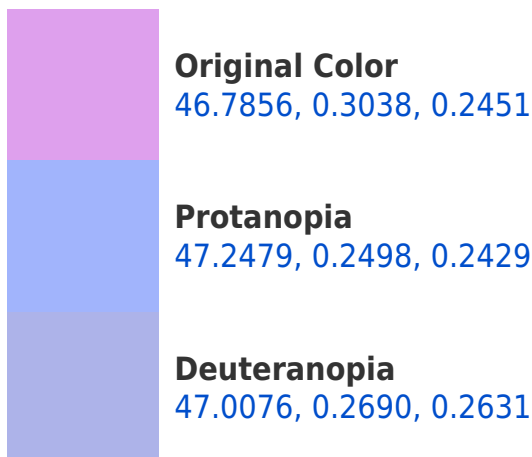


This preview shows how white text looks on a background with the Yxy color 46.7856, 0.3038, 0.2451.

# 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

46.8827, 0.3407, 0.3135

# Trichromacy



## Original Color

46.7856, 0.3038, 0.2451



## Protanomaly

46.6698, 0.2667, 0.2428



## Deuteranomaly

46.5219, 0.2811, 0.2560



## Tritanomaly

46.7009, 0.3272, 0.2872

# Monochromacy



## Original Color

46.7856, 0.3038, 0.2451



## Achromatopsia

49.6933, 0.3127, 0.3290



## Achromatomaly

48.1314, 0.3100, 0.2951

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.7856, 0.3038, 0.2451 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(222, 160, 237)` looks like.

```
.text, #text, p{  
    color:rgb(222, 160, 237)  
}
```

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(222, 160, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 160, 237) }
```

## Border

The CSS property to change the border of an element to Yxy 46.7856, 0.3038, 0.2451 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(222, 160, 237) }
```

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

```
.border{ border-color:rgb(222, 160, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 160, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 160, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 160, 237);  
box-shadow:4px 4px 4px 4px rgb(222, 160,  
237) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.7856, 0.3038, 0.2451 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 160, 237) }
```

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

```
.background{ background-color: rgb(222,  
160, 237) }
```

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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