

# Converting Colors

$Y_{xy}(41.6515, 0.3177, 0.2324)$

Have a look what the booklet for  
Yxy(41.6515, 0.3177, 0.2324)  
contains.

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# Color

**Yxy(41.5146, 0.3173, 0.2321)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E78CE7
RGB	231, 140, 231
RGB Percent	91%, 55%, 91%
CMY	0.0941, 0.4509, 0.0943
CMYK	0.00, 0.39, 0.00, 0.09
HSL	300°, 65%, 73%
HSV	300°, 39%, 91%
XYZ	56.7539, 41.5146, 80.5966
YIQ	177.5830, 25.0250, 47.5930

# Conversions

## Conversions Part 2

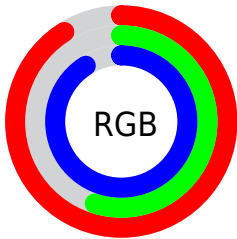
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	231, 140, 231
Decimal	15174887
CIE Lab	70.53, 48.04, -31.72
CIE LCh	71, 57.570, 326.566
Yxy	41.5146, 0.3173, 0.2321
Android (android.graphics.Color)	4293364967 (0xFFE78CE7)
YUV	177.5830, 26.3346, 46.8467
Hunter-Lab	64.4318, 44.4736, -29.0625

# Details

The Yxy color **41.5146, 0.3173, 0.2321** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **64.6264, 0.3070, 0.4496**, and the grayscale version is **44.1391, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.5102, 0.3155, 0.2703**, and **18.9102, 0.3170, 0.2096** is the 20% darker color. If you saturate the color by 10%, you get **35.4583, 0.3183, 0.2101**, and if you desaturate by 10%, it is **48.9916, 0.3162, 0.2560**.

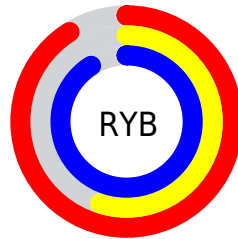
# Distribution



Red (91%)

Green (55%)

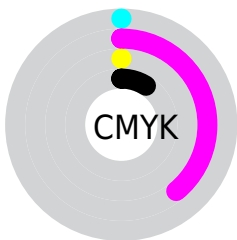
Blue (91%)



Red (91%)

Yellow (55%)

Blue (91%)

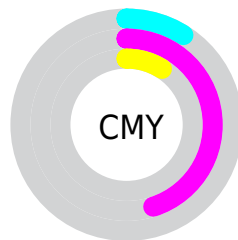


Cyan (0%)

Magenta (39%)

Yellow (0%)

Black (9%)



Cyan (9%)

Magenta (45%)


Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.5146, 0.3173, 0.2321 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 41.5146, 0.3173, 0.2321 by changing the saturation by 10% instead.





 41.5146, 0.3173,  
0.2321


 41.5146, 0.3173,  
0.2321


352.4668, 0.3165,  
0.2772

 28.7214, 0.3171,  
0.2219


 77.4645, 0.3173,  
0.2477

 18.8702, 0.3166,  
0.2093


 101.3899, 0.3173,  
0.2538

 11.5765, 0.3157,  
0.1936


 129.7949, 0.3172,  
0.2590

 6.4560, 0.3138,  
0.1734

163.0638, 0.3170,  
0.2636

 3.1243, 0.3101,  
0.1468

201.5811, 0.3169,  
0.2676

 1.1970, 0.3021,  
0.1110

245.7311, 0.3168,

 0.0592, 0.2987,

0.2712

0.0137

295.8982, 0.3167,  
0.2743

0.0000, 0.1406,  
0.0000

0.0000, 0.0000,  
0.0000

41.5146, 0.3173,  
0.2321

41.5146, 0.3173,  
0.2321

35.4583, 0.3183,  
0.2101

48.9916, 0.3162,  
0.2560

30.7277, 0.3193,  
0.1910


57.9653, 0.3150,  
0.2810

27.2251, 0.3200,  
0.1756

68.5131, 0.3138,  
0.3060


24.8370, 0.3205,  
0.1644


80.7053, 0.3126,  
0.3305


 23.4289, 0.3209,  
0.1576


 94.2804, 0.3116,  
0.3533

 22.7845, 0.3210,  
0.1544

 94.2810, 0.3116,  
0.3533

 22.7539, 0.3210,  
0.1542

 94.2816, 0.3116,  
0.3533

 94.2822, 0.3116,  
0.3533

 94.2828, 0.3115,  
0.3533

# Harmonies

## Analogous

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



41.5146, 0.2414, 0.2078



41.5146, 0.3173, 0.2321



41.5146, 0.4028, 0.2757

# Triad

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



41.5146, 0.3173, 0.2321



41.5146, 0.4381, 0.4484



41.5146, 0.1809, 0.2973

# Complementary

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



41.5146, 0.3173, 0.2321



64.6264, 0.3070, 0.4496

# 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.



41.5146, 0.2221, 0.3860



41.5146, 0.3173, 0.2321



41.5146, 0.3700, 0.4825

# Square

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



41.5146, 0.3173, 0.2321



41.5146, 0.4755, 0.3916



41.5146, 0.2910, 0.4630



41.5146, 0.1716, 0.2356



# Rectangle

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



41.5146, 0.3173, 0.2321



41.5146, 0.4486, 0.3120



41.5146, 0.2910, 0.4630



41.5146, 0.1911, 0.3250

# Sweetspot

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



41.5164, 0.3173, 0.2321



82.0057, 0.3141, 0.2993



30.1051, 0.2399, 0.2086



17.1722, 0.3143, 0.2961



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.



41.5164, 0.3173, 0.2321



45.8464, 0.3181, 0.2146



39.2732, 0.3615, 0.2776



14.6151, 0.3138, 0.3059



12.7555, 0.3210, 0.1542



0.9426, 0.3210, 0.1542



# Inverse Universe

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



41.5164, 0.3173, 0.2321



45.8464, 0.3181, 0.2146



66.2558, 0.2821, 0.3877



14.6151, 0.3138, 0.3059



12.7555, 0.3210, 0.1542



0.9426, 0.3210, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 41.5146, 0.3173, 0.2321 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

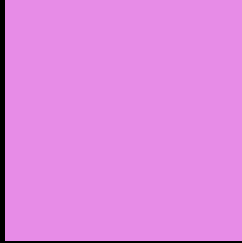
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 41.5146, 0.3173, 0.2321 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

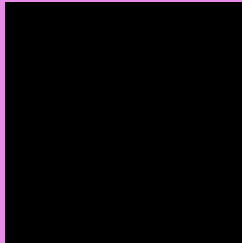
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 41.5146, 0.3173, 0.2321**

## Background



This preview shows how black text looks on a background with the Yxy color 41.5146, 0.3173, 0.2321.

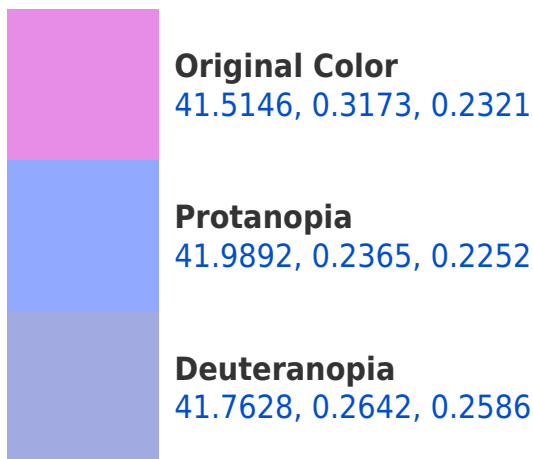


This preview shows how white text looks on a background with the Yxy color 41.5146, 0.3173, 0.2321.

# 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

41.5524, 0.3704, 0.3149

# Trichromacy



## Original Color

41.5146, 0.3173, 0.2321



## Protanomaly

40.6802, 0.2605, 0.2258



## Deuteranomaly

40.7814, 0.2812, 0.2466



## Tritanomaly

41.3813, 0.3502, 0.2819

# Monochromacy



## Original Color

41.5146, 0.3173, 0.2321



## Achromatopsia

44.5201, 0.3127, 0.3290



## Achromatomaly

42.4525, 0.3146, 0.2880

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.5146, 0.3173, 0.2321 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(231, 140, 231)` looks like.

```
.text, #text, p{  
    color:rgb(231, 140, 231)  
}
```

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(231, 140, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 140, 231) }
```

## Border

The CSS property to change the border of an element to Yxy 41.5146, 0.3173, 0.2321 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(231, 140, 231) }
```

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

```
.border{ border-color:rgb(231, 140, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 140, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 140, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 140, 231);  
box-shadow:4px 4px 4px 4px rgb(231, 140,  
231) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.5146, 0.3173, 0.2321 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 140, 231) }
```

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

```
.background{ background-color: rgb(231,  
140, 231) }
```

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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