

# Converting Colors

$Y_{xy}(42.2763, 0.3083, 0.2360)$

Have a look what the booklet for  
Yxy(42.2763, 0.3083, 0.2360)  
contains.

<b>Yxy(42.2232, 0.3081, 0.2360)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(42.2232, 0.3081, 0.2360)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DE93E8
RGB	222, 147, 232
RGB Percent	87%, 58%, 91%
CMY	0.1294, 0.4235, 0.0903
CMYK	0.04, 0.37, 0.00, 0.09
HSL	293°, 65%, 74%
HSV	293°, 37%, 91%
XYZ	55.1227, 42.2232, 81.5659
YIQ	179.1150, 17.4150, 42.3350

# Conversions

## Conversions Part 2

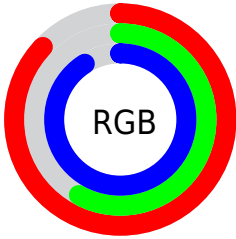
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">222, 147, 232</a>
Decimal	<a href="#">14586856</a>
CIELab	<a href="#">71.02, 41.86, -31.60</a>
CIELCh	<a href="#">71, 52.448, 322.953</a>
Yxy	<a href="#">42.2232, 0.3081, 0.2360</a>
Android (android.graphics.Color)	<a href="#">4292776936 (0xFFDE93E8)</a>
YUV	<a href="#">179.1150, 26.0723, 37.6101</a>
Hunter-Lab	<a href="#">64.9794, 37.7097, -28.9387</a>

# Details

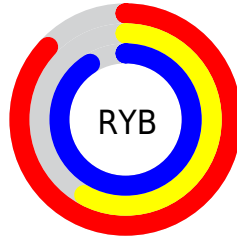
The Yxy color  $42.2232, 0.3081, 0.2360$  is a light color, and the websafe version is hex `CC99FF`. A complement of this color would be  $66.9674, 0.3138, 0.4378$ , and the grayscale version is  $44.9964, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $70.7211, 0.3151, 0.2772$ , and  $19.4260, 0.3058, 0.2148$  is the 20% darker color. If you saturate the color by 10%, you get  $35.2975, 0.3061, 0.2116$ , and if you desaturate by 10%, it is  $50.6140, 0.3098, 0.2616$ .

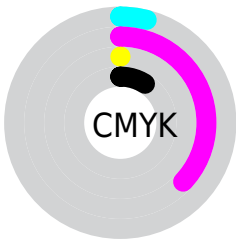
# Distribution



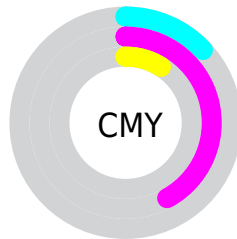
- Red (87%)
- Green (58%)
- Blue (91%)



- Red (87%)
- Yellow (58%)
- Blue (91%)



- Cyan (4%)
- Magenta (37%)
- Yellow (0%)
- Black (9%)




- Cyan (13%)
- Magenta (42%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.2232, 0.3081, 0.2360 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 42.2232, 0.3081, 0.2360 by changing the saturation by 10% instead.





 42.2232, 0.3081,  
0.2360


 42.2232, 0.3081,  
0.2360


355.4074, 0.3117,  
0.2794

 29.2761, 0.3069,  
0.2261


 78.5373, 0.3097,  
0.2511

 19.2898, 0.3051,  
0.2139


 102.6731, 0.3102,  
0.2569

 11.8799, 0.3025,  
0.1986


131.3073, 0.3106,  
0.2620

 6.6619, 0.2985,  
0.1788

164.8242, 0.3109,  
0.2664

 3.2516, 0.2919,  
0.1527

203.6083, 0.3112,  
0.2702

 1.2644, 0.2798,  
0.1172

248.0439, 0.3114,

 0.1134, 0.2670,

0.2737

0.0260

298.5155, 0.3116,  
0.2767

0.0000, 0.0638,  
0.0000

0.0000, 0.0000,  
0.0000

42.2232, 0.3081,  
0.2360

42.2232, 0.3081,  
0.2360

35.2975, 0.3061,  
0.2116

50.6140, 0.3098,  
0.2616

29.7434, 0.3037,  
0.1895

60.5450, 0.3111,  
0.2874

25.4652, 0.3010,  
0.1706

72.0927, 0.3122,  
0.3128

22.3527, 0.2982,  
0.1557

85.3271, 0.3129,  
0.3370

■ 20.2767, 0.2952,  
0.1453

■ 95.1099, 0.3139,  
0.3521

■ 19.0739, 0.2921,  
0.1392

■ 95.5777, 0.3156,  
0.3520

■ 18.7735, 0.2911,  
0.1377

■ 96.0526, 0.3173,  
0.3519

■ 96.5347, 0.3190,  
0.3518

■ 97.0240, 0.3207,  
0.3517

# Harmonies

## Analogous

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



42.2232, 0.2408, 0.2160



42.2232, 0.3081, 0.2360



42.2232, 0.3857, 0.2748

# Triad

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



42.2232, 0.3081, 0.2360



42.2232, 0.4342, 0.4341



42.2232, 0.1948, 0.3100

# Complementary

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



42.2232, 0.3081, 0.2360



66.9674, 0.3138, 0.4378

# 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.



42.2232, 0.2370, 0.3903



42.2232, 0.3081, 0.2360



42.2232, 0.3749, 0.4667

# Square

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



42.2232, 0.3081, 0.2360



42.2232, 0.4625, 0.3817



42.2232, 0.3026, 0.4541



42.2232, 0.1821, 0.2495



# Rectangle

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



42.2232, 0.3081, 0.2360



42.2232, 0.4295, 0.3080



42.2232, 0.3026, 0.4541



42.2232, 0.2057, 0.3358

# Sweetspot

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



42.2250, 0.3081, 0.2360



82.7727, 0.3118, 0.3017



36.5954, 0.2479, 0.2334



17.3000, 0.3116, 0.2982



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.



42.2250, 0.3081, 0.2360



45.6560, 0.3066, 0.2173



42.2280, 0.3456, 0.2692



14.5250, 0.3119, 0.3057



10.4614, 0.2916, 0.1380



0.7974, 0.2961, 0.1405



# Inverse Universe

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



40.4525, 0.3911, 0.3178



43.2435, 0.4161, 0.3155



67.1207, 0.2902, 0.3980



14.3953, 0.3274, 0.3263



9.5781, 0.6253, 0.3218

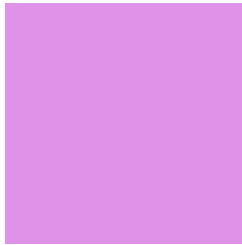


0.7169, 0.5946, 0.3049



# Previews

## White Background



This preview shows how the Yxy color 42.2232, 0.3081, 0.2360 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

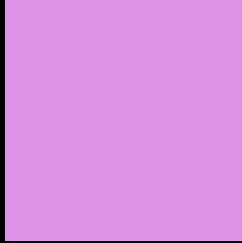
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.2232, 0.3081, 0.2360 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

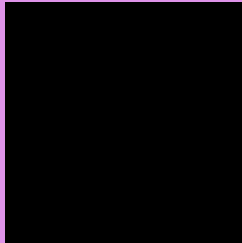
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.2232, 0.3081, 0.2360**

## Background



This preview shows how black text looks on a background with the Yxy color 42.2232, 0.3081, 0.2360.

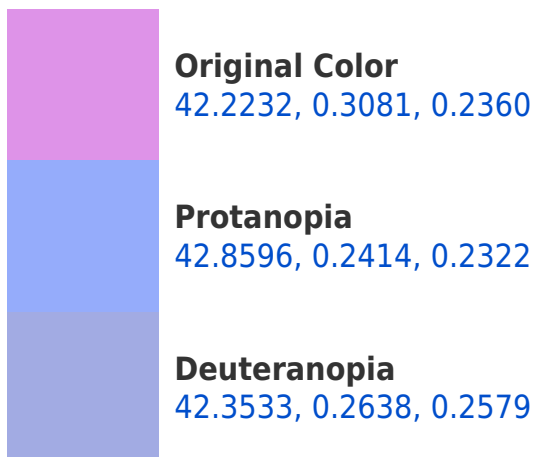


This preview shows how white text looks on a background with the Yxy color 42.2232, 0.3081, 0.2360.

# 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

42.0710, 0.3543, 0.3133

# Trichromacy



## Original Color

42.2232, 0.3081, 0.2360



## Protanomaly

41.9561, 0.2623, 0.2325



## Deuteranomaly

41.6882, 0.2784, 0.2478



## Tritanomaly

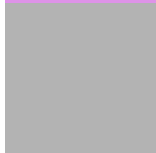
42.0894, 0.3368, 0.2831

# Monochromacy



## Original Color

42.2232, 0.3081, 0.2360



## Achromatopsia

45.0786, 0.3127, 0.3290



## Achromatomaly

43.3168, 0.3118, 0.2904

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.2232, 0.3081, 0.2360 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, 147, 232)` looks like.

```
.text, #text, p{  
    color:rgb(222, 147, 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(222, 147, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 147, 232) }
```

## Border

The CSS property to change the border of an element to Yxy 42.2232, 0.3081, 0.2360 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, 147, 232) }
```

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

```
.border{ border-color:rgb(222, 147, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 147, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 147, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 147, 232);  
box-shadow:4px 4px 4px 4px rgb(222, 147,  
232) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.2232, 0.3081, 0.2360 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 147, 232) }
```

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

```
.background{ background-color: rgb(222,  
147, 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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