

# Converting Colors

$Y_{xy}(48.2675, 0.2941, 0.2313)$

Have a look what the booklet for  
Yxy(48.2675, 0.2941, 0.2313)  
contains.

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# Color

**Yxy(48.2410, 0.2941, 0.2313)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E1A0FD
RGB	225, 160, 253
RGB Percent	88%, 63%, 99%
CMY	0.1178, 0.3724, 0.0079
CMYK	0.11, 0.37, 0.00, 0.01
HSL	282°, 96%, 81%
HSV	282°, 37%, 99%
XYZ	61.3389, 48.2410, 98.9848
YIQ	190.0370, 8.8870, 42.7030

# Conversions

## Conversions Part 2

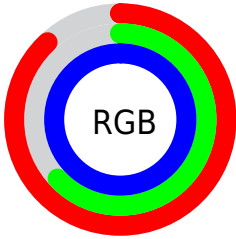
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	225, 160, 253
Decimal	14786813
CIE Lab	74.98, 39.94, -36.89
CIE LCh	75, 54.373, 317.276
Yxy	48.2410, 0.2941, 0.2313
Android (android.graphics.Color)	4292976893 (0xFFE1A0FD)
YUV	190.0370, 31.0408, 30.6626
Hunter-Lab	69.4557, 36.0922, -35.8781

# Details

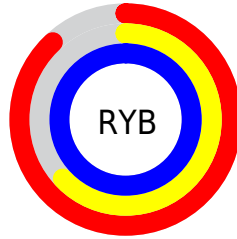
The Yxy color **48.2410, 0.2941, 0.2313** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **83.4700, 0.3244, 0.4352**, and the grayscale version is **51.3298, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.5917, 0.3145, 0.2910**, and **22.8257, 0.2873, 0.2091** is the 20% darker color. If you saturate the color by 10%, you get **39.1466, 0.2871, 0.2041**, and if you desaturate by 10%, it is **59.1787, 0.3003, 0.2590**.

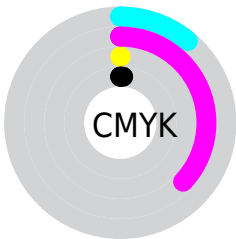
# Distribution



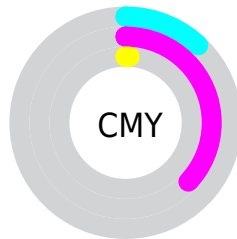
- Red (88%)
- Green (63%)
- Blue (99%)



- Red (88%)
- Yellow (63%)
- Blue (99%)



- Cyan (11%)
- Magenta (37%)
- Yellow (0%)
- Black (1%)




- Cyan (12%)
- Magenta (37%)
- Yellow (1%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.2410, 0.2941, 0.2313 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 48.2410, 0.2941, 0.2313 by changing the saturation by 10% instead.





 48.2410, 0.2941,  
0.2313


 48.2410, 0.2941,  
0.2313


379.7466, 0.3044,  
0.2757

 34.0178, 0.2913,  
0.2215


 87.5631, 0.2980,  
0.2465

 22.9073, 0.2877,  
0.2095


 113.4308, 0.2994,  
0.2525

 14.5250, 0.2828,  
0.1947


143.9488, 0.3006,  
0.2577

 8.4867, 0.2760,  
0.1759

179.5014, 0.3016,  
0.2622

 4.4079, 0.2658,  
0.1517

220.4731, 0.3025,  
0.2662

 1.9043, 0.2497,  
0.1198

267.2483, 0.3032,

 0.5509, 0.2233,

0.2697

0.0730

320.2113, 0.3039,  
0.2729

0.0000, 0.1587,  
0.0000

0.0000, 0.0000,  
0.0000

48.2410, 0.2941,  
0.2313

48.2410, 0.2941,  
0.2313

39.1466, 0.2871,  
0.2041

59.1787, 0.3003,  
0.2590

31.7797, 0.2795,  
0.1786

72.0539, 0.3056,  
0.2862

26.0208, 0.2714,  
0.1560

86.9618, 0.3101,  
0.3123

21.7323, 0.2631,  
0.1373

99.8702, 0.3139,  
0.3309

■ 18.7527, 0.2549,  
0.1234

■ 16.8784, 0.2470,  
0.1144

■ 16.4056, 0.2445,  
0.1121

# Harmonies

## Analogous

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



48.2410, 0.2312, 0.2155



48.2410, 0.2941, 0.2313



48.2410, 0.3710, 0.2668

# Triad

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



48.2410, 0.2941, 0.2313



48.2410, 0.4415, 0.4245



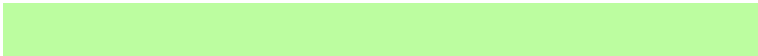
48.2410, 0.2014, 0.3245

# Complementary

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



48.2410, 0.2941, 0.2313



83.4700, 0.3244, 0.4352

# 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.



48.2410, 0.2486, 0.4044



48.2410, 0.2941, 0.2313



48.2410, 0.3872, 0.4621

# Square

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



48.2410, 0.2941, 0.2313



48.2410, 0.4618, 0.3710



48.2410, 0.3165, 0.4596



48.2410, 0.1832, 0.2593



# Rectangle

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



48.2410, 0.2941, 0.2313



48.2410, 0.4175, 0.2984



48.2410, 0.3165, 0.4596



48.2410, 0.2141, 0.3511

# Sweetspot

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



48.2430, 0.2941, 0.2313



81.8225, 0.3083, 0.3014



51.1607, 0.2504, 0.2535



17.0724, 0.3077, 0.2978



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.



48.2430, 0.2941, 0.2313



42.2059, 0.2891, 0.2114



52.0816, 0.3310, 0.2528



18.0095, 0.3089, 0.3052



8.8088, 0.2457, 0.1127



0.9148, 0.2545, 0.1176



# Inverse Universe

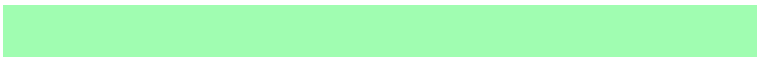
The Inverse Universe completely reimagines the original color for something new.



49.6620, 0.3750, 0.2997



44.0040, 0.3936, 0.2939



80.8879, 0.2988, 0.4198



18.0772, 0.3247, 0.3219



11.4107, 0.5764, 0.2949

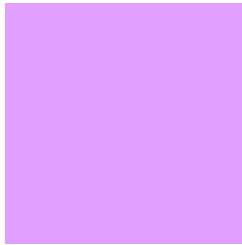


1.1294, 0.5443, 0.2772



# Previews

## White Background



This preview shows how the Yxy color 48.2410, 0.2941, 0.2313 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

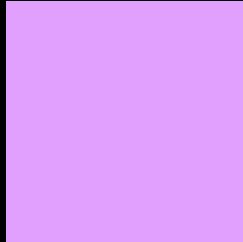
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.2410, 0.2941, 0.2313 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

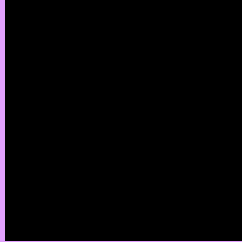
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.2410, 0.2941, 0.2313**

## Background



This preview shows how black text looks on a background with the Yxy color 48.2410, 0.2941, 0.2313.



This preview shows how white text looks on a background with the Yxy color 48.2410, 0.2941, 0.2313.

# 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

48.2410, 0.2941, 0.2313

### Protanopia

48.7684, 0.2494, 0.2438

### Deuteranopia

48.5109, 0.2557, 0.2492



## Tritanopia

48.3070, 0.3384, 0.3136

# Trichromacy



## Original Color

48.2410, 0.2941, 0.2313



## Protanomaly

48.1300, 0.2640, 0.2387



## Deuteranomaly

47.8656, 0.2685, 0.2419



## Tritanomaly

48.1392, 0.3220, 0.2810

# Monochromacy



## Original Color

48.2410, 0.2941, 0.2313



## Achromatopsia

51.4918, 0.3127, 0.3290



## Achromatomaly

49.7408, 0.3063, 0.2887

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.2410, 0.2941, 0.2313 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(225, 160, 253)` looks like.

```
.text, #text, p{  
    color:rgb(225, 160, 253)  
}
```

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(225, 160, 253) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(225, 160, 253) }
```

## Border

The CSS property to change the border of an element to Yxy 48.2410, 0.2941, 0.2313 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(225, 160, 253) }
```

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

```
.border{ border-color:rgb(225, 160, 253) }
```

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

Here you see how a box with a 4 pixel rgb(225, 160, 253) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(225, 160, 253); -webkit-box-  
shadow:4px 4px 4px 4px rgb(225, 160, 253);  
box-shadow:4px 4px 4px 4px rgb(225, 160,  
253) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.2410, 0.2941, 0.2313 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(225, 160, 253) }
```

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

```
.background{ background-color: rgb(225,  
160, 253) }
```

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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