

# Converting Colors

$Y_{xy}(38.5899, 0.3131, 0.2182)$

Have a look what the booklet for  
Yxy(38.5899, 0.3131, 0.2182)  
contains.

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# Color

**Yxy(38.7864, 0.3132, 0.2185)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E682EB
RGB	230, 130, 235
RGB Percent	90%, 51%, 92%
CMY	0.0982, 0.4900, 0.0786
CMYK	0.02, 0.45, 0.00, 0.08
HSL	297°, 72%, 72%
HSV	297°, 45%, 92%
XYZ	55.5968, 38.7864, 83.1289
YIQ	171.8700, 25.8950, 53.8550

# Conversions

## Conversions Part 2

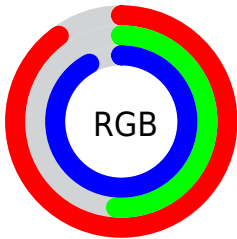
Format	Color
R <sub>Y</sub> B	230, 130, 235
Decimal	15106795
CIE Lab	68.60, 53.52, -36.94
CIE LCh	69, 65.028, 325.387
Yxy	38.7864, 0.3132, 0.2185
Android (android.graphics.Color)	4293296875 (0xFFE682EB)
YUV	171.8700, 31.1231, 50.9800
Hunter-Lab	62.2787, 50.3608, -35.5445

# Details

The Yxy color **38.7864, 0.3132, 0.2185** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **66.1664, 0.3091, 0.4676**, and the grayscale version is **41.0190, 0.3127, 0.3290**.

A 20% lighter version of the original color is **63.1779, 0.3159, 0.2604**, and **17.1942, 0.3101, 0.1923** is the 20% darker color. If you saturate the color by 10%, you get **33.0476, 0.3128, 0.1971**, and if you desaturate by 10%, it is **45.9570, 0.3134, 0.2422**.

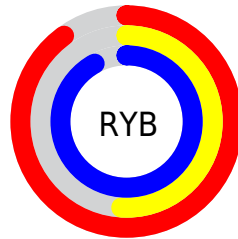
# Distribution



Red (90%)

Green (51%)

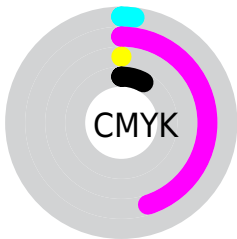
Blue (92%)



Red (90%)

Yellow (51%)

Blue (92%)

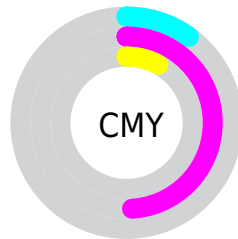


Cyan (2%)

Magenta (45%)

Yellow (0%)

Black (8%)



Cyan (10%)

Magenta (49%)


Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.7864, 0.3132, 0.2185 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 38.7864, 0.3132, 0.2185 by changing the saturation by 10% instead.





 38.7864, 0.3132,  
0.2185


 38.7864, 0.3132,  
0.2185


340.9815, 0.3149,  
0.2696


 26.5936, 0.3123,  
0.2070


 73.3119, 0.3142,  
0.2361

 17.2682, 0.3108,  
0.1930


 96.4134, 0.3145,  
0.2430

 10.4259, 0.3085,  
0.1755


 123.9199, 0.3147,  
0.2490

 5.6823, 0.3047,  
0.1534

156.2158, 0.3148,  
0.2542

 2.6529, 0.2978,  
0.1249

193.6855, 0.3149,  
0.2587

 0.9533, 0.2848,  
0.0879

236.7135, 0.3149,

 0.0000, 0.2691,

0.2628

0.0000

285.6840, 0.3149,  
0.2664

■ 0.0000, 0.0798,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 38.7864, 0.3132,  
0.2185

■ 38.7864, 0.3132,  
0.2185

■ 33.0476, 0.3128,  
0.1971

■ 45.9570, 0.3134,  
0.2422

■ 28.6370, 0.3123,  
0.1789


■ 54.6434, 0.3133,  
0.2673

■ 25.4454, 0.3115,  
0.1647


■ 64.9291, 0.3132,  
0.2927

■ 23.3442, 0.3105,  
0.1548


■ 76.8902, 0.3129,  
0.3177

 22.1756, 0.3094,  
0.1492


 90.5978, 0.3125,  
0.3417

 21.8032, 0.3088,  
0.1475

 95.4675, 0.3128,  
0.3490

 95.6610, 0.3135,  
0.3490

 95.8556, 0.3142,  
0.3489

 96.0515, 0.3149,  
0.3489

# Harmonies

## Analogous

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



38.7864, 0.2284, 0.1926



38.7864, 0.3132, 0.2185



38.7864, 0.4126, 0.2657

# Triad

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



38.7864, 0.3132, 0.2185



38.7864, 0.4553, 0.4590



38.7864, 0.1650, 0.2940

# Complementary

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



38.7864, 0.3132, 0.2185



66.1664, 0.3091, 0.4676

# 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.



38.7864, 0.2110, 0.3993



38.7864, 0.3132, 0.2185



38.7864, 0.3780, 0.5049

# Square

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



38.7864, 0.3132, 0.2185



38.7864, 0.4987, 0.3928



38.7864, 0.2889, 0.4893



38.7864, 0.1543, 0.2237



# Rectangle

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



38.7864, 0.3132, 0.2185



38.7864, 0.4670, 0.3052



38.7864, 0.2889, 0.4893



38.7864, 0.1762, 0.3265

# Sweetspot

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



38.7881, 0.3132, 0.2185



80.3439, 0.3131, 0.2967



28.1533, 0.2296, 0.1964



16.5573, 0.3132, 0.2911



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.



38.7881, 0.3132, 0.2185



40.0466, 0.3129, 0.1979



37.2527, 0.3651, 0.2652



15.2750, 0.3130, 0.3057



12.1546, 0.3090, 0.1476



0.9657, 0.3108, 0.1486



# Inverse Universe

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



35.3834, 0.4264, 0.3237



35.5047, 0.4663, 0.3229



67.3321, 0.2816, 0.4045



15.0657, 0.3285, 0.3279



9.8488, 0.6349, 0.3271

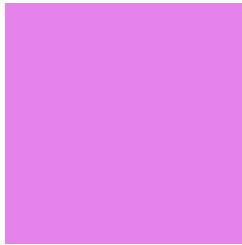


0.7775, 0.6213, 0.3196



# Previews

## White Background



This preview shows how the Yxy color 38.7864, 0.3132, 0.2185 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

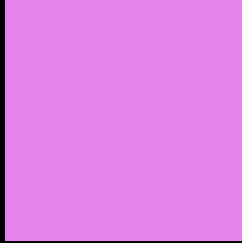
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.7864, 0.3132, 0.2185 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

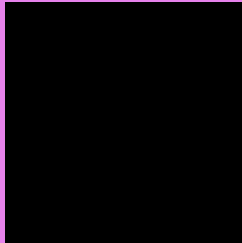
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.7864, 0.3132, 0.2185**

## Background



This preview shows how black text looks on a background with the Yxy color 38.7864, 0.3132, 0.2185.



This preview shows how white text looks on a background with the Yxy color 38.7864, 0.3132, 0.2185.

# 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

38.7864, 0.3132, 0.2185

### Protanopia

39.2812, 0.2295, 0.2173

### Deuteranopia

38.9570, 0.2523, 0.2458



## Tritanopia

38.5863, 0.3769, 0.3147

# Trichromacy



## Original Color

38.7864, 0.3132, 0.2185



## Protanomaly

37.7798, 0.2539, 0.2143



## Deuteranomaly

37.6910, 0.2712, 0.2323



## Tritanomaly

38.4849, 0.3528, 0.2757

# Monochromacy



## Original Color

38.7864, 0.3132, 0.2185



## Achromatopsia

41.2543, 0.3127, 0.3290



## Achromatomaly

39.3915, 0.3131, 0.2809

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.7864, 0.3132, 0.2185 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(230, 130, 235)` looks like.

```
.text, #text, p{  
    color:rgb(230, 130, 235)  
}
```

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(230, 130, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 130, 235) }
```

## Border

The CSS property to change the border of an element to Yxy 38.7864, 0.3132, 0.2185 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(230, 130, 235) }
```

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

```
.border{ border-color:rgb(230, 130, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(230, 130, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 130, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 130, 235);  
box-shadow:4px 4px 4px 4px rgb(230, 130,  
235) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.7864, 0.3132, 0.2185 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 130, 235) }
```

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

```
.background{ background-color: rgb(230,  
130, 235) }
```

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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