

# Converting Colors

$Y_{xy}(38.7969, 0.3076, 0.2080)$

Have a look what the booklet for  
Yxy(38.7969, 0.3076, 0.2080)  
contains.

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**Color**

**Yxy(38.7770, 0.3082, 0.2082)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E97EF4
RGB	233, 126, 244
RGB Percent	91%, 49%, 96%
CMY	0.0862, 0.5059, 0.0430
CMYK	0.05, 0.48, 0.00, 0.04
HSL	294°, 84%, 73%
HSV	294°, 48%, 96%
XYZ	57.4019, 38.7770, 90.0699
YIQ	171.4450, 25.8940, 59.3820

# Conversions

## Conversions Part 2

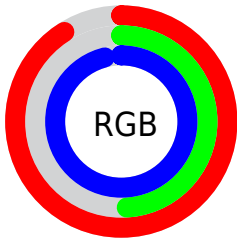
Format	Color
R <sub>Y</sub> B	233, 126, 244
Decimal	15302388
CIE Lab	68.59, 58.03, -41.90
CIE LCh	69, 71.573, 324.166
Yxy	38.7770, 0.3082, 0.2082
Android (android.graphics.Color)	4293492468 (0xFFE97EF4)
YUV	171.4450, 35.7696, 53.9837
Hunter-Lab	62.2712, 55.5676, -42.1681

# Details

The Yxy color **38.7770, 0.3082, 0.2082** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **71.5431, 0.3115, 0.4799**, and the grayscale version is **40.7670, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.9359, 0.3161, 0.2575**, and **17.2083, 0.3045, 0.1813** is the 20% darker color. If you saturate the color by 10%, you get **32.9008, 0.3065, 0.1870**, and if you desaturate by 10%, it is **46.1833, 0.3097, 0.2319**.

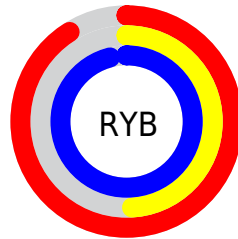
# Distribution



Red (91%)

Green (49%)

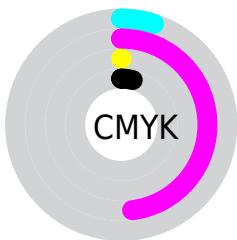
Blue (96%)



Red (91%)

Yellow (49%)

Blue (96%)

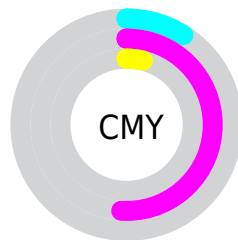


Cyan (5%)

Magenta (48%)

Yellow (0%)

Black (4%)



Cyan (9%)

Magenta (51%)

Yellow (4%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.7770, 0.3082, 0.2082 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 38.7770, 0.3082, 0.2082 by changing the saturation by 10% instead.





 38.7770, 0.3082,  
0.2082


 38.7770, 0.3082,  
0.2082


340.9415, 0.3128,  
0.2633


 26.5863, 0.3065,  
0.1960


 73.2975, 0.3103,  
0.2270

 17.2628, 0.3041,  
0.1813


 96.3961, 0.3110,  
0.2345

 10.4220, 0.3005,  
0.1632


 123.8995, 0.3115,  
0.2409

 5.6796, 0.2949,  
0.1406

156.1920, 0.3119,  
0.2465

 2.6513, 0.2856,  
0.1121

193.6581, 0.3122,  
0.2515

 0.9525, 0.2692,  
0.0764

236.6821, 0.3124,

 0.0000, 0.2467,

0.2559

0.0000

285.6484, 0.3126,  
0.2598

■ 0.0000, 0.1137,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 38.7770, 0.3082,  
0.2082

■ 38.7770, 0.3082,  
0.2082

■ 32.9008, 0.3065,  
0.1870

■ 46.1833, 0.3097,  
0.2319

■ 28.4370, 0.3045,  
0.1693

■ 55.2159, 0.3108,  
0.2572

■ 25.2590, 0.3023,  
0.1557

■ 65.9691, 0.3117,  
0.2829

■ 23.2155, 0.2999,  
0.1467

■ 78.5285, 0.3124,  
0.3084


 22.0922, 0.2975,  
0.1417


 92.9740, 0.3128,  
0.3329

 21.9476, 0.2971,  
0.1411

 97.7687, 0.3139,  
0.3397

 98.1844, 0.3153,  
0.3396

 98.6051, 0.3167,  
0.3396

 99.0309, 0.3181,  
0.3396

# Harmonies

## Analogous

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



38.7770, 0.2178, 0.1817



38.7770, 0.3082, 0.2082



38.7770, 0.4180, 0.2575

# Triad

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



38.7770, 0.3082, 0.2082



38.7770, 0.4681, 0.4642



38.7770, 0.1541, 0.2931

# Complementary

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



38.7770, 0.3082, 0.2082



71.5431, 0.3115, 0.4799

# 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.



38.7770, 0.2039, 0.4117



38.7770, 0.3082, 0.2082



38.7770, 0.3845, 0.5201

# Square

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



38.7770, 0.3082, 0.2082



38.7770, 0.5156, 0.3914



38.7770, 0.2884, 0.5104



38.7770, 0.1422, 0.2158



# Rectangle

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



38.7770, 0.3082, 0.2082



38.7770, 0.4793, 0.2990



38.7770, 0.2884, 0.5104



38.7770, 0.1662, 0.3295

# Sweetspot

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



38.7787, 0.3082, 0.2082



77.3065, 0.3120, 0.2915



29.0852, 0.2229, 0.1907



15.9442, 0.3118, 0.2861



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.



38.7787, 0.3082, 0.2082



36.4931, 0.3065, 0.1875



38.1794, 0.3651, 0.2542



16.6851, 0.3123, 0.3056



11.9630, 0.2975, 0.1413



1.0739, 0.3007, 0.1430



# Inverse Universe

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



35.9628, 0.4352, 0.3175



33.1742, 0.4760, 0.3161



72.1786, 0.2826, 0.4203



16.5076, 0.3279, 0.3268



10.4995, 0.6296, 0.3242

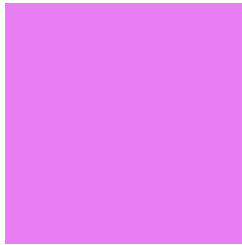


0.9311, 0.6073, 0.3119



# Previews

## White Background



This preview shows how the Yxy color 38.7770, 0.3082, 0.2082 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

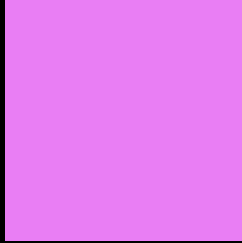
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.7770, 0.3082, 0.2082 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

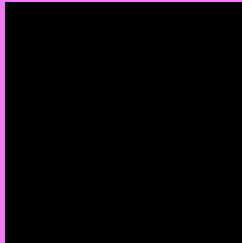
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.7770, 0.3082, 0.2082**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.7770, 0.3082, 0.2082.



This preview shows how white text looks on a background with the Yxy color 38.7770, 0.3082, 0.2082.

# 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

38.7770, 0.3082, 0.2082

### Protanopia

39.2812, 0.2295, 0.2173

### Deuteranopia

39.2265, 0.2439, 0.2377



## Tritanopia

38.8657, 0.3800, 0.3160

# Trichromacy



## Original Color

38.7770, 0.3082, 0.2082



## Protanomaly

37.7562, 0.2526, 0.2107



## Deuteranomaly

37.6546, 0.2634, 0.2219



## Tritanomaly

38.3081, 0.3531, 0.2717

# Monochromacy



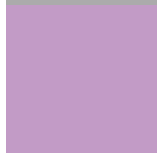
## Original Color

38.7770, 0.3082, 0.2082



## Achromatopsia

40.7240, 0.3127, 0.3290



## Achromatomaly

38.9892, 0.3115, 0.2750

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.7770, 0.3082, 0.2082 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(233, 126, 244)` looks like.

```
.text, #text, p{  
    color:rgb(233, 126, 244)  
}
```

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(233, 126, 244) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 126, 244) }
```

## Border

The CSS property to change the border of an element to Yxy 38.7770, 0.3082, 0.2082 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(233, 126, 244) }
```

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

```
.border{ border-color:rgb(233, 126, 244) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 126, 244)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 126, 244); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 126, 244);  
box-shadow:4px 4px 4px 4px rgb(233, 126,  
244) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.7770, 0.3082, 0.2082 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 126, 244) }
```

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

```
.background{ background-color: rgb(233,  
126, 244) }
```

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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