

# Converting Colors

$Y_{xy}(37.7745, 0.3130, 0.2175)$

Have a look what the booklet for  
Yxy(37.7745, 0.3130, 0.2175)  
contains.

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# Color

**Yxy(37.8155, 0.3132, 0.2176)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E480E9
RGB	228, 128, 233
RGB Percent	89%, 50%, 91%
CMY	0.1058, 0.4981, 0.0862
CMYK	0.02, 0.45, 0.00, 0.09
HSL	297°, 71%, 71%
HSV	297°, 45%, 91%
XYZ	54.4293, 37.8155, 81.5397
YIQ	169.8700, 25.8950, 53.8550

# Conversions

## Conversions Part 2

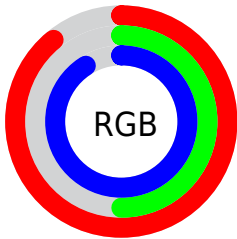
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	228, 128, 233
Decimal	14975209
CIE <sub>Lab</sub>	67.88, 53.64, -36.99
CIE <sub>LCh</sub>	68, 65.159, 325.408
Yxy	37.8155, 0.3132, 0.2176
Android (android.graphics.Color)	4293165289 (0xFFE480E9)
YUV	169.8700, 31.1231, 50.9800
Hunter-Lab	61.4943, 50.3773, -35.5708

# Details

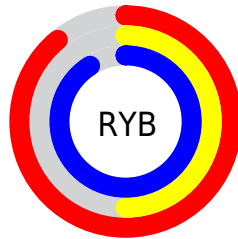
The Yxy color **37.8155, 0.3132, 0.2176** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **64.8364, 0.3090, 0.4690**, and the grayscale version is **39.9632, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.3470, 0.3160, 0.2585**, and **16.6179, 0.3100, 0.1911** is the 20% darker color. If you saturate the color by 10%, you get **32.2401, 0.3128, 0.1963**, and if you desaturate by 10%, it is **44.7910, 0.3134, 0.2413**.

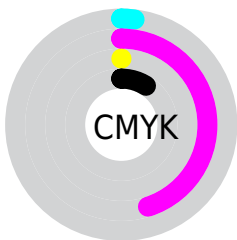
# Distribution



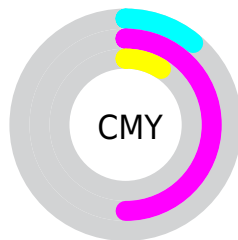
- Red (89%)
- Green (50%)
- Blue (91%)



- Red (89%)
- Yellow (50%)
- Blue (91%)



- Cyan (2%)
- Magenta (45%)
- Yellow (0%)
- Black (9%)




- Cyan (11%)
- Magenta (50%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.8155, 0.3132, 0.2176 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 37.8155, 0.3132, 0.2176 by changing the saturation by 10% instead.





 37.8155, 0.3132,  
0.2176


 37.8155, 0.3132,  
0.2176

336.8279, 0.3150,  
0.2693


 25.8395, 0.3122,  
0.2059


 71.8253, 0.3142,  
0.2355

 16.7036, 0.3108,  
0.1917


 94.6278, 0.3145,  
0.2424

 10.0234, 0.3084,  
0.1739


 121.8081, 0.3147,  
0.2485

 5.4145, 0.3044,  
0.1514

153.7503, 0.3148,  
0.2537

 2.4924, 0.2973,  
0.1224

190.8391, 0.3149,  
0.2583

 0.8729, 0.2836,  
0.0848

233.4586, 0.3149,

 0.0000, 0.2652,

0.2624

0.0000

281.9934, 0.3150,  
0.2660

■ 0.0000, 0.0296,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.8155, 0.3132,  
0.2176

■ 37.8155, 0.3132,  
0.2176

■ 32.2401, 0.3128,  
0.1963

■ 44.7910, 0.3134,  
0.2413

■ 27.9630, 0.3123,  
0.1783

■ 53.2493, 0.3134,  
0.2662


■ 24.8765, 0.3115,  
0.1642


■ 63.2726, 0.3132,  
0.2916

■ 22.8538, 0.3105,  
0.1546


■ 74.9354, 0.3129,  
0.3166

 21.7387, 0.3094,  
0.1491

 88.3079, 0.3125,  
0.3407

 21.4019, 0.3088,  
0.1475

 95.0128, 0.3127,  
0.3511

 95.2021, 0.3134,  
0.3510

 95.3925, 0.3141,  
0.3510

 95.5842, 0.3148,  
0.3509

# Harmonies

## Analogous

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



37.8155, 0.2276, 0.1915



37.8155, 0.3132, 0.2176



37.8155, 0.4137, 0.2652

# Triad

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



37.8155, 0.3132, 0.2176



37.8155, 0.4563, 0.4599



37.8155, 0.1637, 0.2934

# Complementary

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



37.8155, 0.3132, 0.2176



64.8364, 0.3090, 0.4690

# 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.



37.8155, 0.2099, 0.4000



37.8155, 0.3132, 0.2176



37.8155, 0.3783, 0.5067

# Square

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



37.8155, 0.3132, 0.2176



37.8155, 0.5004, 0.3931



37.8155, 0.2884, 0.4912



37.8155, 0.1530, 0.2226



# Rectangle

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



37.8155, 0.3132, 0.2176



37.8155, 0.4686, 0.3049



37.8155, 0.2884, 0.4912



37.8155, 0.1750, 0.3263

# Sweetspot

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



37.8172, 0.3132, 0.2176



78.9785, 0.3132, 0.2942



27.3137, 0.2287, 0.1950



16.2886, 0.3132, 0.2887



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.



37.8172, 0.3132, 0.2176



40.0493, 0.3129, 0.1979



36.2980, 0.3658, 0.2647



15.2751, 0.3130, 0.3057



12.1568, 0.3090, 0.1476



0.9659, 0.3108, 0.1486



# Inverse Universe

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



34.4564, 0.4280, 0.3237



35.5043, 0.4663, 0.3229



65.9857, 0.2814, 0.4053



15.0657, 0.3285, 0.3279



9.8487, 0.6349, 0.3271

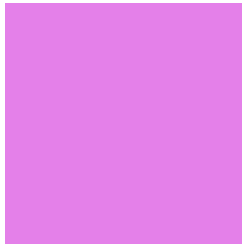


0.7775, 0.6213, 0.3196



# Previews

## White Background



This preview shows how the Yxy color 37.8155, 0.3132, 0.2176 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

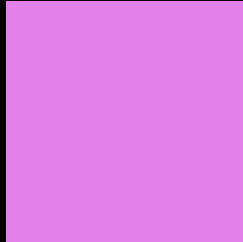
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 37.8155, 0.3132, 0.2176 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

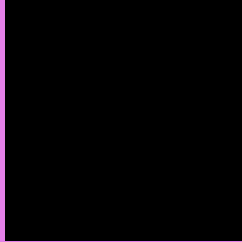
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 37.8155, 0.3132, 0.2176**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.8155, 0.3132, 0.2176.

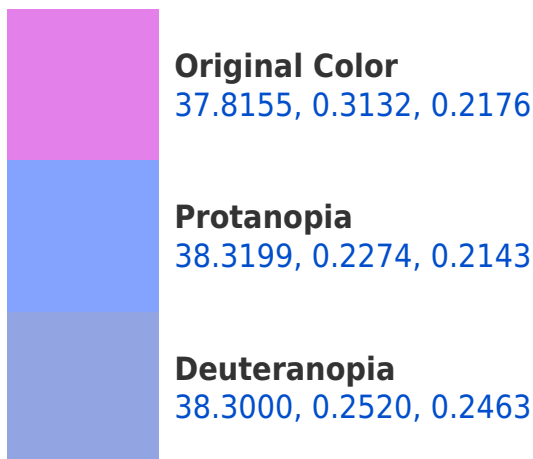


This preview shows how white text looks on a background with the Yxy color 37.8155, 0.3132, 0.2176.

# 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

37.5565, 0.3787, 0.3158

# Trichromacy



## Original Color

37.8155, 0.3132, 0.2176



## Protanomaly

36.7436, 0.2520, 0.2122



## Deuteranomaly

37.0205, 0.2709, 0.2326



## Tritanomaly

37.4555, 0.3543, 0.2764

# Monochromacy



## Original Color

37.8155, 0.3132, 0.2176



## Achromatopsia

40.1978, 0.3127, 0.3290



## Achromatomaly

38.3693, 0.3131, 0.2805

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.8155, 0.3132, 0.2176 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(228, 128, 233)` looks like.

```
.text, #text, p{  
    color:rgb(228, 128, 233)  
}
```

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(228, 128, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 128, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 37.8155, 0.3132, 0.2176 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(228, 128, 233) }
```

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

```
.border{ border-color:rgb(228, 128, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 128, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 128, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 128, 233);  
box-shadow:4px 4px 4px 4px rgb(228, 128,  
233) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.8155, 0.3132, 0.2176 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 128, 233) }
```

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

```
.background{ background-color: rgb(228,  
128, 233) }
```

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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