

# Converting Colors

$Y_{xy}(34.7323, 0.3028, 0.1821)$

Have a look what the booklet for  
Yxy(34.7323, 0.3028, 0.1821)  
contains.

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**Color**

**Yxy(34.7273, 0.3027, 0.1821)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ED66FF
RGB	237, 102, 255
RGB Percent	93%, 40%, 100%
CMY	0.0705, 0.6000, 0.0001
CMYK	0.07, 0.60, 0.00, 0.00
HSL	293°, 100%, 70%
HSV	293°, 60%, 100%
XYZ	57.7263, 34.7273, 98.2510
YIQ	159.8070, 31.3470, 76.2030

# Conversions

## Conversions Part 2

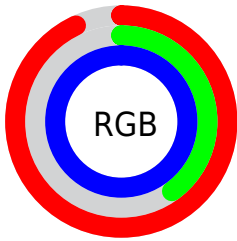
Format	Color
R <sub>Y</sub> B	237, 102, 255
Decimal	15558399
CIE Lab	65.54, 71.98, -52.69
CIE LCh	66, 89.204, 323.798
Yxy	34.7273, 0.3027, 0.1821
Android (android.graphics.Color)	4293748479 (0xFFED66FF)
YUV	159.8070, 46.9301, 67.6983
Hunter-Lab	58.9299, 71.7270, -57.6005

# Details

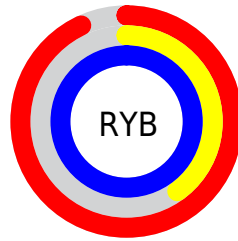
The Yxy color **34.7273, 0.3027, 0.1821** is a light color, and the websafe version is hex **FF66FF**. A complement of this color would be **76.4578, 0.3116, 0.5192**, and the grayscale version is **34.8311, 0.3127, 0.3290**.

A 20% lighter version of the original color is **53.6216, 0.3171, 0.2366**, and **14.9932, 0.2956, 0.1514** is the 20% darker color. If you saturate the color by 10%, you get **29.9529, 0.2999, 0.1645**, and if you desaturate by 10%, it is **41.0539, 0.3052, 0.2033**.

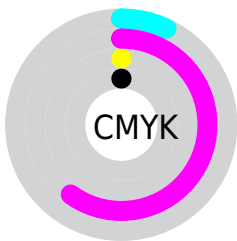
# Distribution



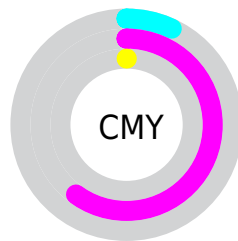
- Red (93%)
- Green (40%)
- Blue (100%)



- Red (93%)
- Yellow (40%)
- Blue (100%)



- Cyan (7%)
- Magenta (60%)
- Yellow (0%)
- Black (0%)




- Cyan (7%)
- Magenta (60%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 34.7273, 0.3027, 0.1821 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 34.7273, 0.3027, 0.1821 by changing the saturation by 10% instead.





 34.7273, 0.3027,  
0.1821


 34.7273, 0.3027,  
0.1821


323.3630, 0.3112,  
0.2477


 23.4529, 0.2998,  
0.1681


 67.0631, 0.3064,  
0.2042


 14.9283, 0.2958,  
0.1514


 88.8933, 0.3076,  
0.2130

 8.7691, 0.2900,  
0.1315


 115.0108, 0.3086,  
0.2206

 4.5909, 0.2813,  
0.1074

 145.8001, 0.3093,  
0.2274

 2.0093, 0.2675,  
0.0787

181.6456, 0.3099,  
0.2333

 0.6128, 0.2453,  
0.0442

222.9317, 0.3104,

 0.0000, 0.2085,

0.2387

0.0000

270.0427, 0.3108,  
0.2434

■ 0.0000, 0.0926,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 34.7273, 0.3027,  
0.1821

■ 34.7273, 0.3027,  
0.1821

■ 29.9529, 0.2999,  
0.1645

■ 41.0539, 0.3052,  
0.2033

■ 26.5797, 0.2970,  
0.1512

■ 49.0562, 0.3074,  
0.2271

■ 24.4344, 0.2939,  
0.1425

■ 58.8503, 0.3092,  
0.2525

■ 23.2317, 0.2909,  
0.1376

■ 70.5407, 0.3107,  
0.2785

■ 23.2312, 0.2909,  
0.1376

■ 84.2240, 0.3119,  
0.3042

99.9901, 0.3127,  
0.3290

99.9987, 0.3127,  
0.3290

# Harmonies

## Analogous

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



34.7273, 0.1937, 0.1521



34.7273, 0.3027, 0.1821



34.7273, 0.4450, 0.2384

# Triad

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



34.7273, 0.3027, 0.1821



34.7273, 0.4943, 0.4795



34.7273, 0.1199, 0.2787

# Complementary

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



34.7273, 0.3027, 0.1821



76.4578, 0.3116, 0.5192

# 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.



34.7273, 0.1744, 0.4391



34.7273, 0.3027, 0.1821



34.7273, 0.3888, 0.5657

# Square

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



34.7273, 0.3027, 0.1821



34.7273, 0.5620, 0.3888



34.7273, 0.2740, 0.5734



34.7273, 0.1092, 0.1870



# Rectangle

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



34.7273, 0.3027, 0.1821



34.7273, 0.5250, 0.2852



34.7273, 0.2740, 0.5734



34.7273, 0.1325, 0.3259

# Sweetspot

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



34.7288, 0.3027, 0.1821



73.1218, 0.3110, 0.2837



24.0614, 0.2006, 0.1581



14.8550, 0.3106, 0.2761



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.



34.7288, 0.3027, 0.1821



29.1744, 0.2994, 0.1615



34.8781, 0.3780, 0.2343



18.1857, 0.3119, 0.3055



12.1840, 0.2914, 0.1379



1.2157, 0.2950, 0.1399



# Inverse Universe

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



32.1151, 0.4801, 0.3123



26.6072, 0.5340, 0.3123



76.8042, 0.2807, 0.4546



18.0218, 0.3276, 0.3262



11.1685, 0.6260, 0.3222

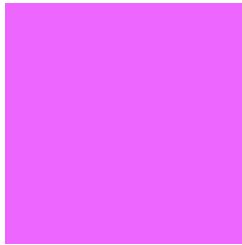


1.0980, 0.6023, 0.3092



# Previews

## White Background



This preview shows how the Yxy color 34.7273, 0.3027, 0.1821 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

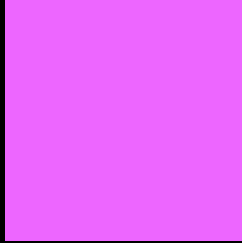
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 34.7273, 0.3027, 0.1821 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

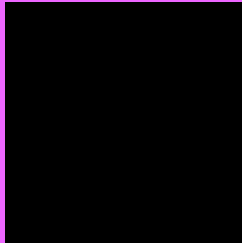
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 34.7273, 0.3027, 0.1821**

## **Background**



This preview shows how black text looks on a background with the Yxy color 34.7273, 0.3027, 0.1821.



This preview shows how white text looks on a background with the Yxy color 34.7273, 0.3027, 0.1821.

# 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

34.7273, 0.3027, 0.1821

### Protanopia

34.9900, 0.2190, 0.2034

### Deuteranopia

35.1019, 0.2221, 0.2161



## Tritanopia

34.4462, 0.4033, 0.3173

# Trichromacy



## Original Color

34.7273, 0.3027, 0.1821



## Protanomaly

32.6148, 0.2422, 0.1882



## Deuteranomaly

32.4901, 0.2437, 0.1946



## Tritanomaly

33.8737, 0.3638, 0.2589

# Monochromacy



## Original Color

34.7273, 0.3027, 0.1821



## Achromatopsia

35.1533, 0.3127, 0.3290



## Achromatomaly

33.0967, 0.3091, 0.2569

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 34.7273, 0.3027, 0.1821 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(237, 102, 255)` looks like.

```
.text, #text, p{  
    color:rgb(237, 102, 255)  
}
```

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(237, 102, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 102, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 34.7273, 0.3027, 0.1821 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(237, 102, 255) }
```

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

```
.border{ border-color:rgb(237, 102, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(237, 102, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 102, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 102, 255);  
box-shadow:4px 4px 4px 4px rgb(237, 102,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 34.7273, 0.3027, 0.1821 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 102, 255) }
```

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

```
.background{ background-color: rgb(237,  
102, 255) }
```

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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