

# Converting Colors

$Y_{xy}(81.5701, 0.3020, 0.3034)$

Have a look what the booklet for  
Yxy(81.5701, 0.3020, 0.3034)  
contains.

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# Color

**Yxy(81.8182, 0.3019, 0.3039)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EDE6FF
RGB	237, 230, 255
RGB Percent	93%, 90%, 100%
CMY	0.0705, 0.0981, 0.0000
CMYK	0.07, 0.10, 0.00, 0.00
HSL	257°, 100%, 95%
HSV	257°, 10%, 100%
XYZ	81.2797, 81.8182, 106.1294
YIQ	234.9430, -3.8530, 9.2590

# Conversions

## Conversions Part 2

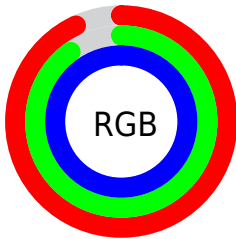
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	237, 230, 255
Decimal	15591167
CIE <sub>Lab</sub>	92.49, 6.94, -11.24
CIE <sub>LCh</sub>	92, 13.210, 301.694
Yxy	81.8182, 0.3019, 0.3039
Android (android.graphics.Color)	4293781247 (0xFFE66FF)
YUV	234.9430, 9.8881, 1.8040
Hunter-Lab	90.4534, 2.1033, -6.2479

# Details

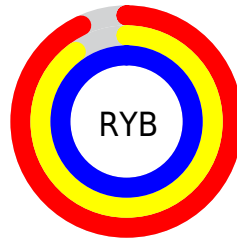
The Yxy color **81.8182, 0.3019, 0.3039** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **97.1841, 0.3229, 0.3536**, and the grayscale version is **82.9614, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **44.5609, 0.2996, 0.2994** is the 20% darker color. If you saturate the color by 10%, you get **65.6548, 0.2892, 0.2756**, and if you desaturate by 10%, it is **100.0000, 0.3127, 0.3290**.

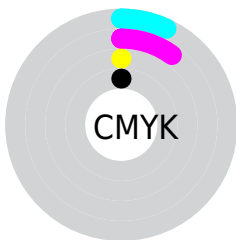
# Distribution



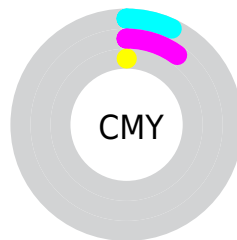
- Red (93%)
- Green (90%)
- Blue (100%)



- Red (93%)
- Yellow (90%)
- Blue (100%)



- Cyan (7%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)




- Cyan (7%)
- Magenta (10%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 81.8182, 0.3019, 0.3039 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 81.8182, 0.3019, 0.3039 by changing the saturation by 10% instead.




 81.8182, 0.3019,  
0.3039

 81.8182, 0.3019,  
0.3039

501.0394, 0.3069,  
0.3151

 61.2157, 0.3008,  
0.3014


135.9190, 0.3036,  
0.3077

 44.3993, 0.2994,  
0.2984


170.1861, 0.3043,  
0.3092

 30.9845, 0.2977,  
0.2947


209.7769, 0.3049,  
0.3105

 20.5871, 0.2954,  
0.2899

255.0757, 0.3054,  
0.3117

 12.8225, 0.2924,  
0.2836

306.4670, 0.3058,  
0.3127

 7.3064, 0.2882,  
0.2749

364.3351, 0.3062,

 3.6545, 0.2817,

0.3136

0.2621

429.0644, 0.3065,  
0.3144

■ 1.4822, 0.2707,  
0.2415

■ 0.2762, 0.2400,  
0.1534

■ 81.8182, 0.3019,  
0.3039

■ 81.8182, 0.3019,  
0.3039

■ 65.6548, 0.2892,  
0.2756

100.0000, 0.3127,  
0.3290

■ 51.7882, 0.2747,  
0.2450

■ 40.1143, 0.2587,  
0.2126

■ 30.5181, 0.2415,  
0.1797

■ 22.8740, 0.2237,  
0.1479

■ 17.0422, 0.2062,  
0.1193

■ 12.8639, 0.1903,  
0.0959

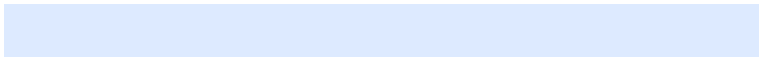
■ 10.1512, 0.1769,  
0.0792

■ 8.6102, 0.1665,  
0.0691

# Harmonies

## Analogous

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



81.8182, 0.2897, 0.3041



81.8182, 0.3019, 0.3039



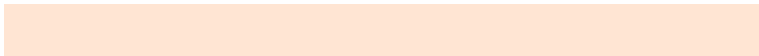
81.8182, 0.3173, 0.3101

# Triad

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



81.8182, 0.3019, 0.3039



81.8182, 0.3426, 0.3463



81.8182, 0.2939, 0.3369

# Complementary

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



81.8182, 0.3019, 0.3039



97.1841, 0.3229, 0.3536

# 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.



81.8182, 0.3077, 0.3491



81.8182, 0.3019, 0.3039



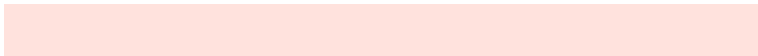
81.8182, 0.3359, 0.3543

# Square

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



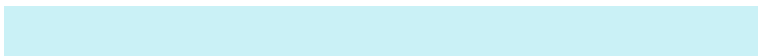
81.8182, 0.3019, 0.3039



81.8182, 0.3410, 0.3341



81.8182, 0.3231, 0.3555



81.8182, 0.2852, 0.3228



# Rectangle

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



81.8182, 0.3019, 0.3039



81.8182, 0.3272, 0.3170



81.8182, 0.3231, 0.3555



81.8182, 0.2981, 0.3414

# Sweetspot

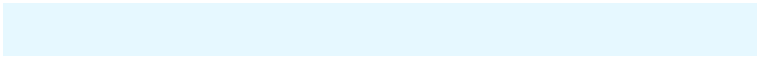
The Sweet Spot groups the original color and five complimentary colors.



81.8206, 0.3019, 0.3039



94.1877, 0.3096, 0.3216



91.3818, 0.2975, 0.3223



19.8356, 0.3087, 0.3196



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.



81.8206, 0.3019, 0.3039



78.0706, 0.2993, 0.2979



83.9819, 0.3099, 0.3045



17.6249, 0.3023, 0.3047



4.5504, 0.1677, 0.0698



0.4952, 0.1792, 0.0761



# Inverse Universe

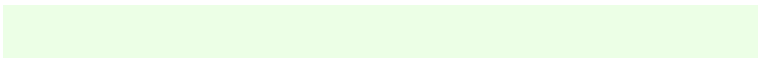
The Inverse Universe completely reimagines the original color for something new.



84.6271, 0.3183, 0.3115



81.4648, 0.3197, 0.3075



95.0369, 0.3152, 0.3541



18.2081, 0.3181, 0.3121



12.9289, 0.4078, 0.2020

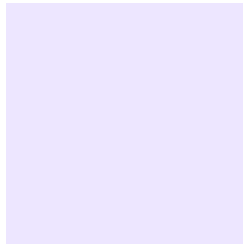


1.2775, 0.3955, 0.1953



# Previews

## White Background



This preview shows how the Yxy color 81.8182, 0.3019, 0.3039 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

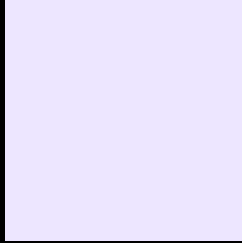
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 81.8182, 0.3019, 0.3039 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 81.8182, 0.3019, 0.3039**

## **Background**



This preview shows how black text looks on a background with the Yxy color 81.8182, 0.3019, 0.3039.



This preview shows how white text looks on a background with the Yxy color 81.8182, 0.3019, 0.3039.

# 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

81.8182, 0.3019, 0.3039

### Protanopia

81.9221, 0.2980, 0.3057

### Deuteranopia

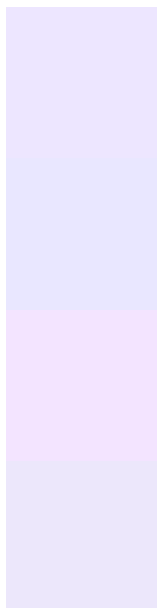
81.7510, 0.3079, 0.3014



## Tritanopia

81.8242, 0.3049, 0.3108

# Trichromacy



## Original Color

81.8182, 0.3019, 0.3039

## Protanomaly

81.6955, 0.2993, 0.3048

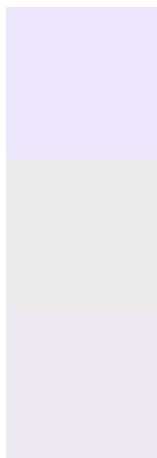
## Deuteranomaly

81.7615, 0.3059, 0.3022

## Tritanomaly

81.9497, 0.3037, 0.3088

# Monochromacy



## Original Color

81.8182, 0.3019, 0.3039

## Achromatopsia

83.0770, 0.3127, 0.3290

## Achromatomaly

82.5215, 0.3091, 0.3198

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 81.8182, 0.3019, 0.3039 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, 230, 255)` looks like.

```
.text, #text, p{  
    color:rgb(237, 230, 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, 230, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 230, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 81.8182, 0.3019, 0.3039 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, 230, 255) }
```

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

```
.border{ border-color:rgb(237, 230, 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, 230, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 230, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 230, 255);  
box-shadow:4px 4px 4px 4px rgb(237, 230,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 81.8182, 0.3019, 0.3039 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 230, 255) }
```

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

```
.background{ background-color: rgb(237,  
230, 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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