

# Converting Colors

$Y_{xy}(82.8155, 0.3013, 0.3060)$

Have a look what the booklet for  
Yxy(82.8155, 0.3013, 0.3060)  
contains.

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# Color

**Yxy(82.7661, 0.3012, 0.3059)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ECE8FF
RGB	236, 232, 255
RGB Percent	93%, 91%, 100%
CMY	0.0746, 0.0902, 0.0000
CMYK	0.07, 0.09, 0.00, 0.00
HSL	250°, 100%, 95%
HSV	250°, 9%, 100%
XYZ	81.4944, 82.7661, 106.3053
YIQ	235.8180, -4.9990, 8.0010

# Conversions

## Conversions Part 2

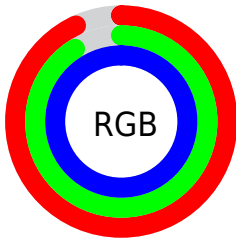
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	236, 232, 255
Decimal	15526143
CIE Lab	92.91, 5.56, -10.63
CIE LCh	93, 11.996, 297.607
Yxy	82.7661, 0.3012, 0.3059
Android (android.graphics.Color)	4293716223 (0xFFECE8FF)
YUV	235.8180, 9.4567, 0.1596
Hunter-Lab	90.9759, 0.6891, -5.5973

# Details

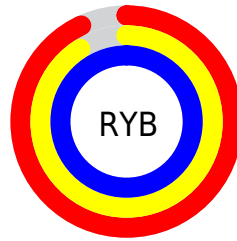
The Yxy color **82.7661, 0.3012, 0.3059** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **97.8631, 0.3236, 0.3514**, and the grayscale version is **83.6619, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **44.8312, 0.2987, 0.3007** is the 20% darker color. If you saturate the color by 10%, you get **66.0367, 0.2867, 0.2774**, and if you desaturate by 10%, it is **100.0000, 0.3127, 0.3290**.

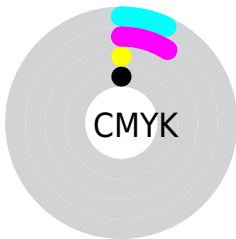
# Distribution



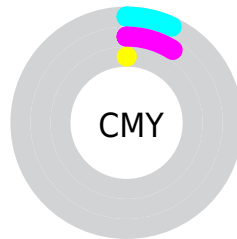
- Red (93%)
- Green (91%)
- Blue (100%)



- Red (93%)
- Yellow (91%)
- Blue (100%)



- Cyan (7%)
- Magenta (9%)
- Yellow (0%)
- Black (0%)



- Cyan (7%)
- Magenta (9%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 82.7661, 0.3012, 0.3059 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 82.7661, 0.3012, 0.3059 by changing the saturation by 10% instead.



82.7661, 0.3012,  
0.3059

82.7661, 0.3012,  
0.3059

504.2067, 0.3064,  
0.3162

61.9972, 0.3000,  
0.3036

137.2478, 0.3030,  
0.3094

45.0304, 0.2986,  
0.3009

171.7294, 0.3037,  
0.3108

31.4814, 0.2968,  
0.2974

211.5508, 0.3043,  
0.3120

20.9657, 0.2944,  
0.2930

257.0962, 0.3049,  
0.3131

13.0989, 0.2913,  
0.2872

308.7501, 0.3053,  
0.3140

7.4967, 0.2869,  
0.2791

366.8969, 0.3057,

3.7746, 0.2802,

0.3148

0.2673

431.9209, 0.3061,  
0.3156

■ 1.5483, 0.2690,  
0.2483

■ 0.3224, 0.2371,  
0.1729

■ 82.7661, 0.3012,  
0.3059

■ 82.7661, 0.3012,  
0.3059

■ 66.0367, 0.2867,  
0.2774

100.0000, 0.3127,  
0.3290

■ 51.7107, 0.2702,  
0.2462

■ 39.6789, 0.2521,  
0.2128

■ 29.8209, 0.2329,  
0.1785

■ 22.0055, 0.2134,  
0.1453

■ 16.0868, 0.1949,  
0.1153

■ 11.8996, 0.1786,  
0.0909

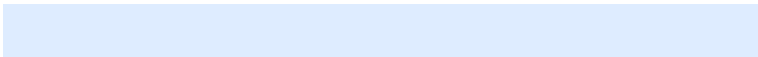
■ 9.2492, 0.1659,  
0.0738

■ 7.8561, 0.1572,  
0.0643

# Harmonies

## Analogous

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



82.7661, 0.2908, 0.3069



82.7661, 0.3012, 0.3059



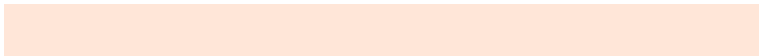
82.7661, 0.3149, 0.3108

# Triad

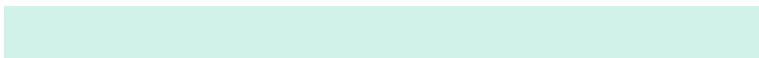
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



82.7661, 0.3012, 0.3059



82.7661, 0.3400, 0.3434



82.7661, 0.2972, 0.3379

# Complementary

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



82.7661, 0.3012, 0.3059



97.8631, 0.3236, 0.3514

# Split Complementary

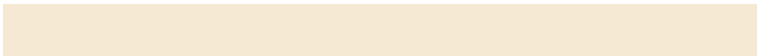
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



82.7661, 0.3101, 0.3483



82.7661, 0.3012, 0.3059



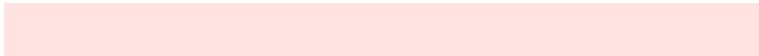
82.7661, 0.3349, 0.3513

# Square

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



82.7661, 0.3012, 0.3059



82.7661, 0.3375, 0.3321



82.7661, 0.3239, 0.3532



82.7661, 0.2885, 0.3251



# Rectangle

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



82.7661, 0.3012, 0.3059



82.7661, 0.3241, 0.3167



82.7661, 0.3239, 0.3532



82.7661, 0.3011, 0.3418

# Sweetspot

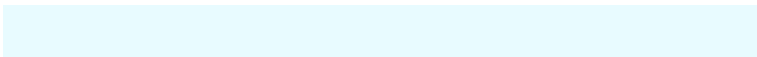
The Sweet Spot groups the original color and five complimentary colors.



82.7682, 0.3012, 0.3059



94.0347, 0.3091, 0.3216



93.4775, 0.2987, 0.3252



19.7944, 0.3080, 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.



82.7682, 0.3012, 0.3059



79.2506, 0.2985, 0.3005



84.7753, 0.3087, 0.3065



17.5282, 0.3005, 0.3046



4.0954, 0.1575, 0.0641



0.4384, 0.1667, 0.0692



# Inverse Universe

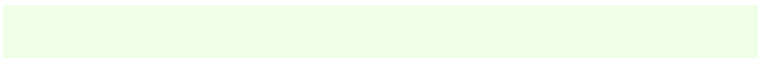
The Inverse Universe completely reimagines the original color for something new.



85.9472, 0.3162, 0.3106



83.0833, 0.3171, 0.3064



95.8152, 0.3164, 0.3519



18.2434, 0.3165, 0.3095



13.5873, 0.3701, 0.1812

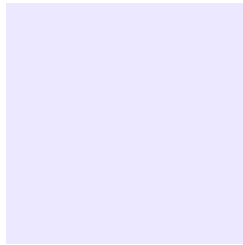


1.3365, 0.3635, 0.1776



# Previews

## White Background



This preview shows how the Yxy color 82.7661, 0.3012, 0.3059 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

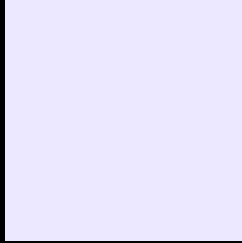
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 82.7661, 0.3012, 0.3059 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

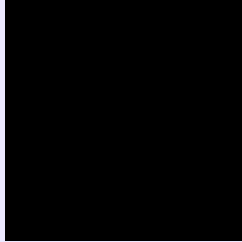
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 82.7661, 0.3012, 0.3059**

## **Background**



This preview shows how black text looks on a background with the Yxy color 82.7661, 0.3012, 0.3059.



This preview shows how white text looks on a background with the Yxy color 82.7661, 0.3012, 0.3059.

# 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

82.7661, 0.3012, 0.3059

### Protanopia

82.8215, 0.2993, 0.3068

### Deuteranopia

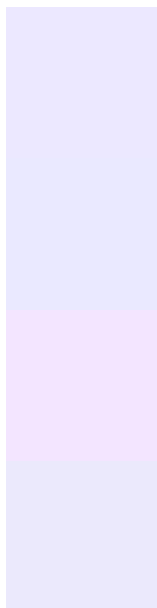
82.4810, 0.3086, 0.3024



## Tritanopia

82.9050, 0.3030, 0.3108

# Trichromacy



## Original Color

82.7661, 0.3012, 0.3059

## Protanomaly

82.9903, 0.2999, 0.3068

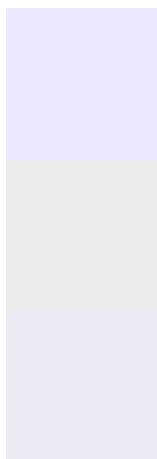
## Deuteranomaly

82.3133, 0.3059, 0.3032

## Tritanomaly

82.9683, 0.3024, 0.3098

# Monochromacy



## Original Color

82.7661, 0.3012, 0.3059

## Achromatopsia

83.8799, 0.3127, 0.3290

## Achromatomaly

83.7206, 0.3085, 0.3209

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 82.7661, 0.3012, 0.3059 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(236, 232, 255)` looks like.

```
.text, #text, p{  
    color:rgb(236, 232, 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(236, 232, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 232, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 82.7661, 0.3012, 0.3059 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(236, 232, 255) }
```

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

```
.border{ border-color:rgb(236, 232, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 232, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 232, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 232, 255);  
box-shadow:4px 4px 4px 4px rgb(236, 232,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 82.7661, 0.3012, 0.3059 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 232, 255) }
```

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

```
.background{ background-color: rgb(236,  
232, 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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