

# Converting Colors

$Y_{xy}(80.8098, 0.2938, 0.3053)$

Have a look what the booklet for  
Yxy(80.8098, 0.2938, 0.3053)  
contains.

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# Color

**Yxy(80.7805, 0.2935, 0.3054)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E0E8FF
RGB	224, 232, 255
RGB Percent	88%, 91%, 100%
CMY	0.1218, 0.0901, 0.0001
CMYK	0.12, 0.09, 0.00, 0.00
HSL	224°, 100%, 94%
HSV	224°, 12%, 100%
XYZ	77.6329, 80.7805, 106.0938
YIQ	232.2300, -12.1510, 5.4570

# Conversions

## Conversions Part 2

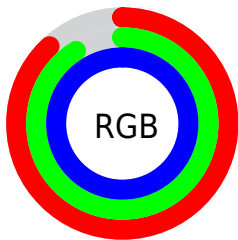
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	224, 230, 255
Decimal	14739711
CIE Lab	92.03, 1.72, -12.01
CIE LCh	92, 12.134, 278.144
Yxy	80.7805, 0.2935, 0.3054
Android (android.graphics.Color)	4292929791 (0xFFE0E8FF)
YUV	232.2300, 11.2256, -7.2177
Hunter-Lab	89.8780, -3.1056, -7.0726

# Details

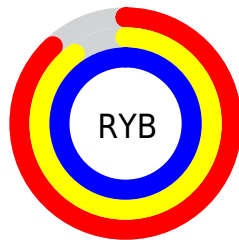
The Yxy color **80.7805, 0.2935, 0.3054** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **93.1042, 0.3320, 0.3515**, and the grayscale version is **80.7946, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **43.5629, 0.2897, 0.2999** is the 20% darker color. If you saturate the color by 10%, you get **66.9530, 0.2763, 0.2833**, and if you desaturate by 10%, it is **96.3659, 0.3094, 0.3251**.

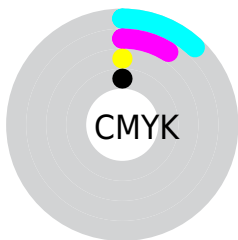
# Distribution



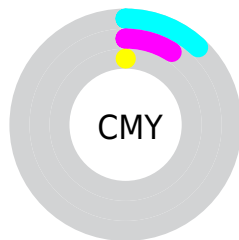
- Red (88%)
- Green (91%)
- Blue (100%)



- Red (88%)
- Yellow (90%)
- Blue (100%)



- Cyan (12%)
- Magenta (9%)
- Yellow (0%)
- Black (0%)



- Cyan (12%)
- Magenta (9%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.7805, 0.2935, 0.3054 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 80.7805, 0.2935, 0.3054 by changing the saturation by 10% instead.



80.7805, 0.2935,  
0.3054

80.7805, 0.2935,  
0.3054

497.5593, 0.3022,  
0.3160

60.3608, 0.2916,  
0.3030

134.4625, 0.2965,  
0.3090

43.7095, 0.2892,  
0.3001

168.4937, 0.2977,  
0.3105

30.4422, 0.2862,  
0.2965

207.8308, 0.2987,  
0.3117

20.1745, 0.2823,  
0.2919

252.8582, 0.2996,  
0.3128

12.5219, 0.2772,  
0.2857

303.9604, 0.3003,  
0.3138

7.1002, 0.2700,  
0.2771

361.5217, 0.3010,

3.5248, 0.2592,

0.3146

0.2643

425.9265, 0.3017,  
0.3154

■ 1.4115, 0.2412,  
0.2433

■ 0.2252, 0.1629,  
0.1433

■ 80.7805, 0.2935,  
0.3054

■ 80.7805, 0.2935,  
0.3054

■ 66.9530, 0.2763,  
0.2833

■ 96.3659, 0.3094,  
0.3251

■ 54.8102, 0.2580,  
0.2589

99.9990, 0.3127,  
0.3290

■ 44.2889, 0.2391,  
0.2324

■ 35.3174, 0.2202,  
0.2044

■ 27.8187, 0.2022,  
0.1760

■ 21.7087, 0.1861,  
0.1484

■ 16.8934, 0.1728,  
0.1231

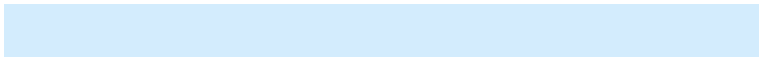
■ 13.2656, 0.1630,  
0.1016

■ 11.1529, 0.1578,  
0.0879

# Harmonies

## Analogous

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



80.7805, 0.2865, 0.3104



80.7805, 0.2935, 0.3054



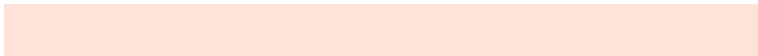
80.7805, 0.3057, 0.3066

# Triad

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



80.7805, 0.2935, 0.3054



80.7805, 0.3398, 0.3364



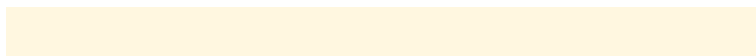
80.7805, 0.3051, 0.3455

# Complementary

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



80.7805, 0.2935, 0.3054



93.1042, 0.3320, 0.3515

# Split Complementary

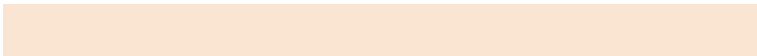
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



80.7805, 0.3193, 0.3527



80.7805, 0.2935, 0.3054



80.7805, 0.3396, 0.3471

# Square

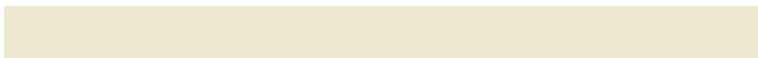
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



80.7805, 0.2935, 0.3054



80.7805, 0.3326, 0.3242



80.7805, 0.3320, 0.3532



80.7805, 0.2931, 0.3335



# Rectangle

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



80.7805, 0.2935, 0.3054



80.7805, 0.3152, 0.3106



80.7805, 0.3320, 0.3532



80.7805, 0.3098, 0.3485

# Sweetspot

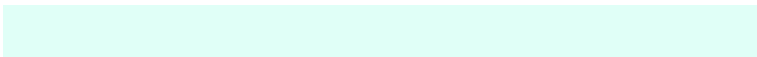
The Sweet Spot groups the original color and five complimentary colors.



80.7839, 0.2935, 0.3054



93.3954, 0.3066, 0.3216



94.0468, 0.2985, 0.3373



19.7315, 0.3055, 0.3202



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.



80.7839, 0.2935, 0.3054



76.7069, 0.2888, 0.2994



77.5243, 0.2981, 0.2974



18.1458, 0.2979, 0.3109



6.0319, 0.1585, 0.0905



0.7554, 0.1643, 0.1116



# Inverse Universe

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



80.3690, 0.3293, 0.3210



76.2863, 0.3338, 0.3191



96.7987, 0.3263, 0.3596



18.0646, 0.3253, 0.3228



11.3369, 0.5904, 0.3026

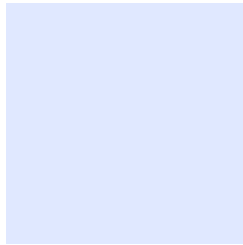


1.1208, 0.5587, 0.2851



# Previews

## White Background



This preview shows how the Yxy color 80.7805, 0.2935, 0.3054 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

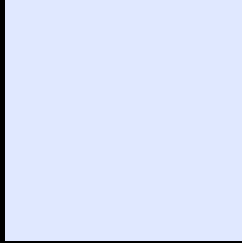
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 80.7805, 0.2935, 0.3054 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

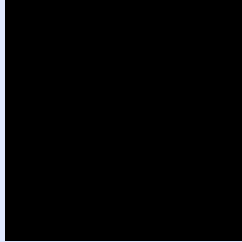
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 80.7805, 0.2935, 0.3054**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.7805, 0.2935, 0.3054.



This preview shows how white text looks on a background with the Yxy color 80.7805, 0.2935, 0.3054.

# 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

80.7805, 0.2935, 0.3054

### Protanopia

80.5724, 0.2979, 0.3046

### Deuteranopia

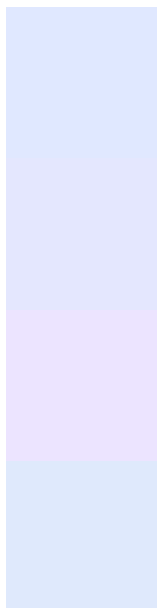
80.6674, 0.3059, 0.3002



## Tritanopia

80.9308, 0.2952, 0.3104

# Trichromacy



## Original Color

80.7805, 0.2935, 0.3054

## Protanomaly

80.8016, 0.2966, 0.3055

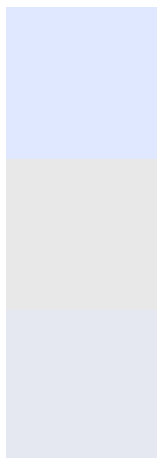
## Deuteranomaly

80.5397, 0.3012, 0.3018

## Tritanomaly

80.9941, 0.2947, 0.3094

# Monochromacy



## Original Color

80.7805, 0.2935, 0.3054

## Achromatopsia

80.6952, 0.3127, 0.3290

## Achromatomaly

80.6625, 0.3057, 0.3207

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  80.7805, 0.2935, 0.3054 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(224, 232, 255)` looks like.

```
.text, #text, p{  
    color:rgb(224, 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(224, 232, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 232, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 80.7805, 0.2935, 0.3054 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(224, 232, 255) }
```

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

```
.border{ border-color:rgb(224, 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(224, 232, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 232, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 232, 255);  
box-shadow:4px 4px 4px 4px rgb(224, 232,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.7805, 0.2935, 0.3054 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 232, 255) }
```

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

```
.background{ background-color: rgb(224,  
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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