

# Converting Colors

$Yxy(85.3502, 0.3003, 0.3055)$

Have a look what the booklet for  
Yxy(85.3502, 0.3003, 0.3055)  
contains.

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# Color

**Yxy(84.8138, 0.3025, 0.3090)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EEEEFF
RGB	238, 235, 255
RGB Percent	93%, 92%, 100%
CMY	0.0666, 0.0785, 0.0000
CMYK	0.07, 0.08, 0.00, 0.00
HSL	249°, 100%, 96%
HSV	249°, 8%, 100%
XYZ	83.0297, 84.8138, 106.6348
YIQ	238.1770, -4.6320, 6.8560

# Conversions

## Conversions Part 2

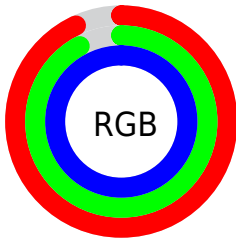
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	238, 235, 255
Decimal	15657983
CIE Lab	93.80, 4.68, -9.30
CIE LCh	94, 10.411, 296.731
Yxy	84.8138, 0.3025, 0.3090
Android (android.graphics.Color)	4293848063 (0xFFEEEEBFF)
YUV	238.1770, 8.2937, -0.1552
Hunter-Lab	92.0944, -0.2347, -4.1850

# Details

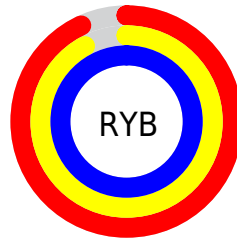
The Yxy color **84.8138, 0.3025, 0.3090** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **98.2067, 0.3225, 0.3484**, and the grayscale version is **85.5843, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **46.2625, 0.3004, 0.3047** is the 20% darker color. If you saturate the color by 10%, you get **67.7227, 0.2878, 0.2808**, and if you desaturate by 10%, it is **100.0000, 0.3127, 0.3290**.

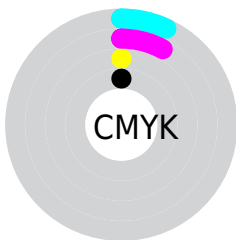
# Distribution



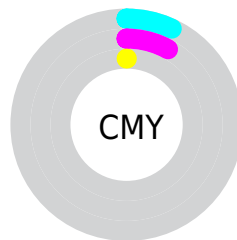
- Red (93%)
- Green (92%)
- Blue (100%)



- Red (93%)
- Yellow (92%)
- Blue (100%)



- Cyan (7%)
- Magenta (8%)
- Yellow (0%)
- Black (0%)




- Cyan (7%)
- Magenta (8%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 84.8138, 0.3025, 0.3090 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 84.8138, 0.3025, 0.3090 by changing the saturation by 10% instead.



 84.8138, 0.3025,  
0.3090

 84.8138, 0.3025,  
0.3090


511.0117, 0.3071,  
0.3179

 63.6875, 0.3015,  
0.3070


140.1130, 0.3041,  
0.3120

 46.3976, 0.3002,  
0.3047


175.0547, 0.3047,  
0.3132

 32.5597, 0.2986,  
0.3017


215.3704, 0.3052,  
0.3143

 21.7894, 0.2966,  
0.2979

261.4444, 0.3057,  
0.3152

 13.7022, 0.2939,  
0.2929

313.6612, 0.3061,  
0.3160

 7.9139, 0.2900,  
0.2860

372.4050, 0.3065,

 4.0399, 0.2843,

0.3167

0.2759

438.0604, 0.3068,  
0.3173

■ 1.6959, 0.2748,  
0.2596

■ 0.4210, 0.2508,  
0.2052

■ 84.8138, 0.3025,  
0.3090

■ 84.8138, 0.3025,  
0.3090

■ 67.7227, 0.2878,  
0.2808

100.0000, 0.3127,  
0.3290

■ 53.0689, 0.2712,  
0.2497

■ 40.7417, 0.2529,  
0.2163

■ 30.6205, 0.2334,  
0.1819

■ 22.5740, 0.2136,  
0.1482

■ 16.4566, 0.1947,  
0.1175

■ 12.1037, 0.1782,  
0.0923

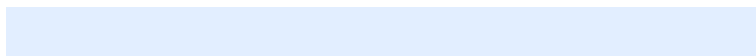
■ 9.3225, 0.1653,  
0.0744

■ 7.8602, 0.1566,  
0.0644

# Harmonies

## Analogous

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



84.8138, 0.2936, 0.3101



84.8138, 0.3025, 0.3090



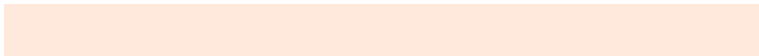
84.8138, 0.3143, 0.3131

# Triad

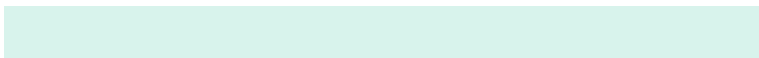
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



84.8138, 0.3025, 0.3090



84.8138, 0.3362, 0.3412



84.8138, 0.2996, 0.3369

# Complementary

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



84.8138, 0.3025, 0.3090



98.2067, 0.3225, 0.3484

# 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.



84.8138, 0.3108, 0.3458



84.8138, 0.3025, 0.3090



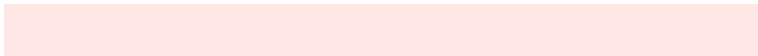
84.8138, 0.3321, 0.3480

# Square

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



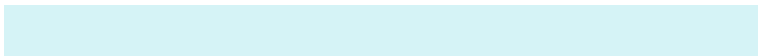
84.8138, 0.3025, 0.3090



84.8138, 0.3339, 0.3314



84.8138, 0.3227, 0.3498



84.8138, 0.2920, 0.3260



# Rectangle

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



84.8138, 0.3025, 0.3090



84.8138, 0.3222, 0.3181



84.8138, 0.3227, 0.3498



84.8138, 0.3031, 0.3403

# Sweetspot

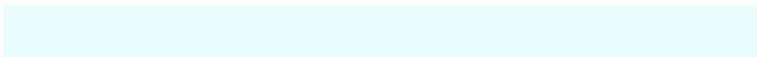
The Sweet Spot groups the original color and five complimentary colors.



84.8148, 0.3025, 0.3090



95.9777, 0.3102, 0.3241



94.5012, 0.3005, 0.3260



20.5853, 0.3104, 0.3243



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.



84.8148, 0.3025, 0.3090



82.7141, 0.3009, 0.3059



86.5888, 0.3090, 0.3094



17.5100, 0.3002, 0.3046



4.0340, 0.1561, 0.0634



0.4297, 0.1647, 0.0681



# Inverse Universe

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



87.6989, 0.3155, 0.3126



85.9992, 0.3159, 0.3101



96.3942, 0.3162, 0.3488



18.2502, 0.3161, 0.3091



13.7260, 0.3635, 0.1776

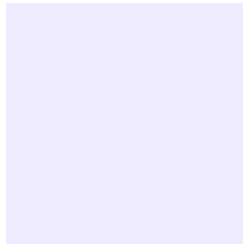


1.3487, 0.3579, 0.1745



# Previews

## White Background



This preview shows how the Yxy color 84.8138, 0.3025, 0.3090 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

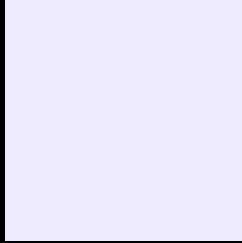
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 84.8138, 0.3025, 0.3090 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

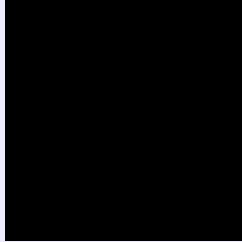
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 84.8138, 0.3025, 0.3090**

## **Background**



This preview shows how black text looks on a background with the Yxy color 84.8138, 0.3025, 0.3090.



This preview shows how white text looks on a background with the Yxy color 84.8138, 0.3025, 0.3090.

# 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

84.8138, 0.3025, 0.3090

### Protanopia

85.0438, 0.3012, 0.3100

### Deuteranopia

84.8811, 0.3111, 0.3056



## Tritanopia

84.7496, 0.3031, 0.3100

# Trichromacy



## Original Color

84.8138, 0.3025, 0.3090

## Protanomaly

85.2154, 0.3019, 0.3100

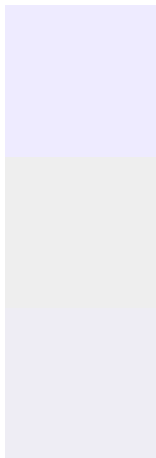
## Deuteranomaly

84.5261, 0.3078, 0.3064

## Tritanomaly

84.7496, 0.3031, 0.3100

# Monochromacy



## Original Color

84.8138, 0.3025, 0.3090

## Achromatopsia

85.4993, 0.3127, 0.3290

## Achromatomaly

85.2772, 0.3091, 0.3219

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 84.8138, 0.3025, 0.3090 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(238, 235, 255)` looks like.

```
.text, #text, p{  
    color:rgb(238, 235, 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(238, 235, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(238, 235, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 84.8138, 0.3025, 0.3090 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(238, 235, 255) }
```

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

```
.border{ border-color:rgb(238, 235, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(238, 235, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(238, 235, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(238, 235, 255);  
box-shadow:4px 4px 4px 4px rgb(238, 235,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 84.8138, 0.3025, 0.3090 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(238, 235, 255) }
```

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

```
.background{ background-color: rgb(238,  
235, 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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