

# Converting Colors

$Yxy(87.0236, 0.2998, 0.3102)$

Have a look what the booklet for  
Yxy(87.0236, 0.2998, 0.3102)  
contains.

<b>Yxy(86.7859, 0.3012, 0.3130)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(86.7859, 0.3012, 0.3130)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ECEFFF
RGB	236, 239, 255
RGB Percent	93%, 94%, 100%
CMY	0.0744, 0.0627, 0.0000
CMYK	0.07, 0.06, 0.00, 0.00
HSL	231°, 100%, 96%
HSV	231°, 7%, 100%
XYZ	83.5141, 86.7859, 106.9712
YIQ	239.9270, -6.9240, 4.3400

# Conversions

## Conversions Part 2

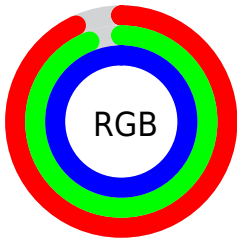
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	236, 239, 255
Decimal	15527935
CIE <sub>Lab</sub>	94.65, 1.97, -8.05
CIE <sub>LCh</sub>	95, 8.289, 283.753
Yxy	86.7859, 0.3012, 0.3130
Android (android.graphics.Color)	4293718015 (0xFFECEFFF)
YUV	239.9270, 7.4310, -3.4440
Hunter-Lab	93.1590, -3.0085, -2.8694

# Details

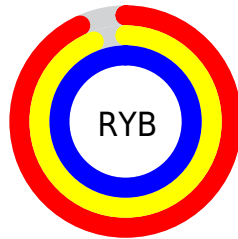
The Yxy color **86.7859, 0.3012, 0.3130** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **96.9480, 0.3241, 0.3445**, and the grayscale version is **87.0253, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **47.6475, 0.2988, 0.3098** is the 20% darker color. If you saturate the color by 10%, you get **70.8853, 0.2843, 0.2891**, and if you desaturate by 10%, it is **100.0000, 0.3127, 0.3290**.

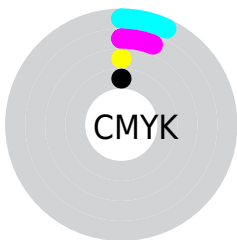
# Distribution



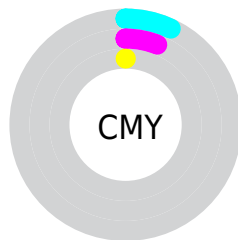
- Red (93%)
- Green (94%)
- Blue (100%)



- Red (93%)
- Yellow (94%)
- Blue (100%)



- Cyan (7%)
- Magenta (6%)
- Yellow (0%)
- Black (0%)




- Cyan (7%)
- Magenta (6%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 86.7859, 0.3012, 0.3130 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 86.7859, 0.3012, 0.3130 by changing the saturation by 10% instead.




 86.7859, 0.3012,  
0.3130

 86.7859, 0.3012,  
0.3130

517.5191, 0.3064,  
0.3201

 65.3180, 0.3001,  
0.3114


142.8657, 0.3030,  
0.3154

 47.7190, 0.2987,  
0.3095


178.2464, 0.3037,  
0.3164

 33.6044, 0.2969,  
0.3071


219.0335, 0.3043,  
0.3172

 22.5899, 0.2947,  
0.3041

265.6114, 0.3048,  
0.3179

 14.2910, 0.2917,  
0.3001

318.3646, 0.3053,  
0.3186

 8.3233, 0.2876,  
0.2945

377.6773, 0.3057,

 4.3025, 0.2815,

0.3192

0.2864

443.9340, 0.3060,  
0.3197

■ 1.8442, 0.2715,  
0.2732

■ 0.5145, 0.2460,  
0.2356

■ 86.7859, 0.3012,  
0.3130

■ 86.7859, 0.3012,  
0.3130

■ 70.8853, 0.2843,  
0.2891

100.0000, 0.3127,  
0.3290

■ 57.0232, 0.2659,  
0.2623

■ 45.1187, 0.2463,  
0.2330

■ 35.0825, 0.2262,  
0.2020

■ 26.8186, 0.2064,  
0.1704

■ 20.2219, 0.1882,  
0.1399

■ 15.1762, 0.1729,  
0.1126

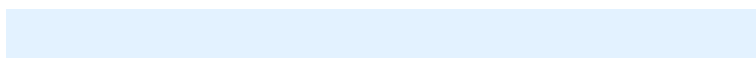
■ 11.5493, 0.1614,  
0.0903

■ 9.1828, 0.1544,  
0.0743

# Harmonies

## Analogous

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



86.7859, 0.2957, 0.3157



86.7859, 0.3012, 0.3130



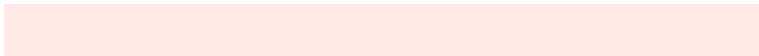
86.7859, 0.3098, 0.3145

# Triad

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



86.7859, 0.3012, 0.3130



86.7859, 0.3311, 0.3355



86.7859, 0.3060, 0.3386

# Complementary

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



86.7859, 0.3012, 0.3130



96.9480, 0.3241, 0.3445

# Split Complementary

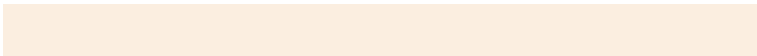
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



86.7859, 0.3154, 0.3441



86.7859, 0.3012, 0.3130



86.7859, 0.3300, 0.3422

# Square

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



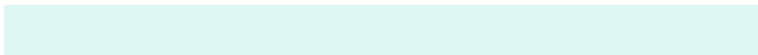
86.7859, 0.3012, 0.3130



86.7859, 0.3272, 0.3273



86.7859, 0.3242, 0.3454



86.7859, 0.2985, 0.3305



# Rectangle

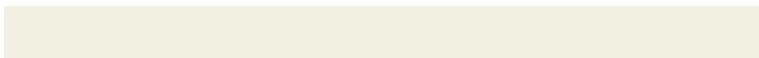
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



86.7859, 0.3012, 0.3130



86.7859, 0.3162, 0.3176



86.7859, 0.3242, 0.3454



86.7859, 0.3090, 0.3408

# Sweetspot

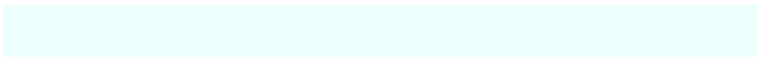
The Sweet Spot groups the original color and five complimentary colors.



86.7884, 0.3012, 0.3130



96.3336, 0.3097, 0.3249



96.3735, 0.3029, 0.3321



20.6578, 0.3099, 0.3251



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.



86.7884, 0.3012, 0.3130



84.1779, 0.2987, 0.3095



86.1582, 0.3053, 0.3102



17.8386, 0.2979, 0.3083



4.7042, 0.1536, 0.0730

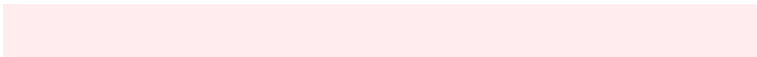


0.5848, 0.1584, 0.0902

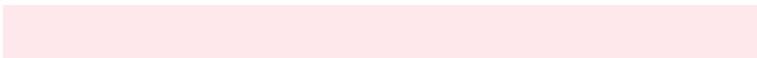


# Inverse Universe

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



87.4920, 0.3236, 0.3261



85.0376, 0.3261, 0.3255



97.6566, 0.3198, 0.3475



18.0336, 0.3270, 0.3253



11.2029, 0.6183, 0.3180

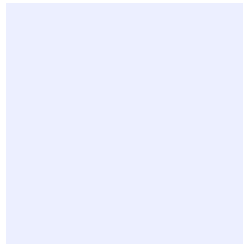


1.1036, 0.5909, 0.3029



# Previews

## White Background



This preview shows how the Yxy color 86.7859, 0.3012, 0.3130 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

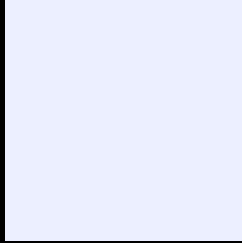
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 86.7859, 0.3012, 0.3130 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

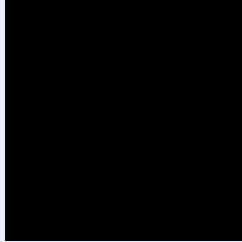
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

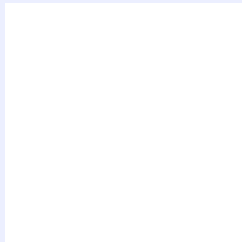
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 86.7859, 0.3012, 0.3130**

## **Background**



This preview shows how black text looks on a background with the Yxy color 86.7859, 0.3012, 0.3130.



This preview shows how white text looks on a background with the Yxy color 86.7859, 0.3012, 0.3130.

# 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

86.7859, 0.3012, 0.3130

### Protanopia

86.6556, 0.3037, 0.3131

### Deuteranopia

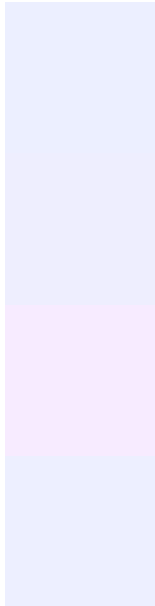
86.5687, 0.3130, 0.3077



## Tritanopia

86.9575, 0.3018, 0.3131

# Trichromacy



## Original Color

86.7859, 0.3012, 0.3130

## Protanomaly

86.4820, 0.3031, 0.3131

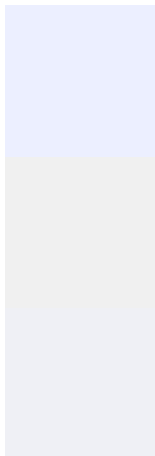
## Deuteranomaly

86.4108, 0.3084, 0.3094

## Tritanomaly

86.9575, 0.3018, 0.3131

# Monochromacy



## Original Color

86.7859, 0.3012, 0.3130

## Achromatopsia

87.1367, 0.3127, 0.3290

## Achromatomaly

87.2635, 0.3090, 0.3240

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 86.7859, 0.3012, 0.3130 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, 239, 255)` looks like.

```
.text, #text, p{  
    color:rgb(236, 239, 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, 239, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 239, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 86.7859, 0.3012, 0.3130 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, 239, 255) }
```

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

```
.border{ border-color:rgb(236, 239, 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, 239, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 239, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 239, 255);  
box-shadow:4px 4px 4px 4px rgb(236, 239,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 86.7859, 0.3012, 0.3130 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 239, 255) }
```

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

```
.background{ background-color: rgb(236,  
239, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor