

# Converting Colors

$Yxy(83.5917, 0.3056, 0.3213)$

Have a look what the booklet for  
Yxy(83.5917, 0.3056, 0.3213)  
contains.

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# Color

**Yxy(83.6178, 0.3058, 0.3218)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E8ECF3
RGB	232, 236, 243
RGB Percent	91%, 93%, 95%
CMY	0.0901, 0.0745, 0.0470
CMYK	0.05, 0.03, 0.00, 0.05
HSL	218°, 31%, 93%
HSV	218°, 5%, 95%
XYZ	79.4603, 83.6178, 96.7659
YIQ	235.6020, -4.6310, 1.3290

# Conversions

## Conversions Part 2

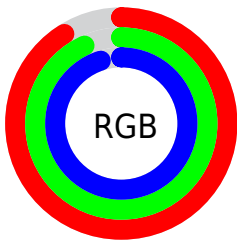
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	232, 235, 243
Decimal	15265011
CIE Lab	93.28, -0.03, -3.87
CIE LCh	93, 3.866, 269.534
Yxy	83.6178, 0.3058, 0.3218
Android (android.graphics.Color)	4293455091 (0xFFE8ECF3)
YUV	235.6020, 3.6472, -3.1590
Hunter-Lab	91.4428, -4.9151, 1.2685

# Details

The Yxy color **83.6178, 0.3058, 0.3218** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **86.6521, 0.3197, 0.3361**, and the grayscale version is **83.5406, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **45.4605, 0.3038, 0.3198** is the 20% darker color. If you saturate the color by 10%, you get **71.2743, 0.2898, 0.3045**, and if you desaturate by 10%, it is **97.0558, 0.3199, 0.3372**.

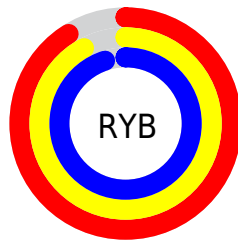
# Distribution



Red (91%)

Green (93%)

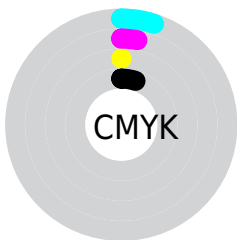
Blue (95%)



Red (91%)

Yellow (92%)

Blue (95%)

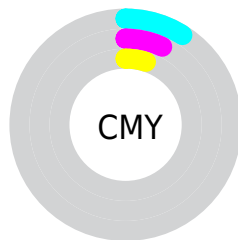


Cyan (5%)

Magenta (3%)

Yellow (0%)

Black (5%)



Cyan (9%)

Magenta (7%)

Yellow (5%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.6178, 0.3058, 0.3218 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 83.6178, 0.3058, 0.3218 by changing the saturation by 10% instead.



83.6178, 0.3058,  
0.3218

83.6178, 0.3058,  
0.3218

507.0432, 0.3089,  
0.3251

62.6999, 0.3051,  
0.3211

138.4404, 0.3069,  
0.3229

45.5985, 0.3043,  
0.3202

173.1139, 0.3073,  
0.3234

31.9291, 0.3032,  
0.3191

213.1415, 0.3077,  
0.3237

21.3074, 0.3018,  
0.3176

258.9074, 0.3080,  
0.3241

13.3489, 0.3000,  
0.3157

310.7962, 0.3083,  
0.3244

7.6692, 0.2974,  
0.3131

369.1921, 0.3085,

3.8840, 0.2935,

0.3246

0.3090

434.4797, 0.3087,  
0.3248

■ 1.6089, 0.2871,  
0.3023

■ 0.3636, 0.2508,  
0.2645

■ 83.6178, 0.3058,  
0.3218

■ 83.6178, 0.3058,  
0.3218

■ 71.2743, 0.2898,  
0.3045

■ 97.0558, 0.3199,  
0.3372

■ 60.2246, 0.2728,  
0.2851

■ 99.2527, 0.3197,  
0.3405

■ 50.4270, 0.2552,  
0.2637

■ 41.8340, 0.2374,  
0.2407

■ 34.3943, 0.2199,  
0.2164

■ 28.0526, 0.2036,  
0.1914

■ 22.7484, 0.1891,  
0.1668

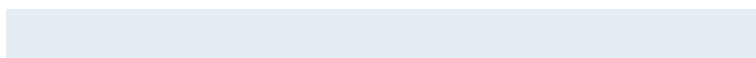
■ 18.4136, 0.1772,  
0.1435

■ 14.9693, 0.1683,  
0.1226

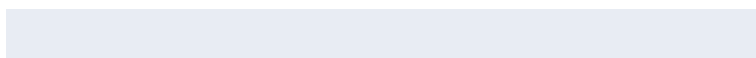
# Harmonies

## Analogous

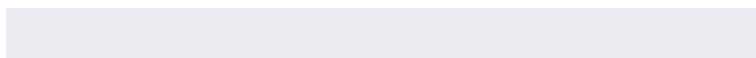
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



83.6178, 0.3041, 0.3240



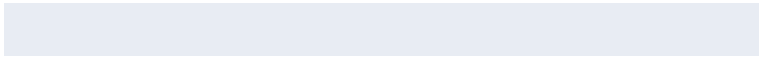
83.6178, 0.3058, 0.3218



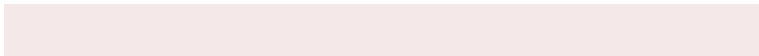
83.6178, 0.3093, 0.3215

# Triad

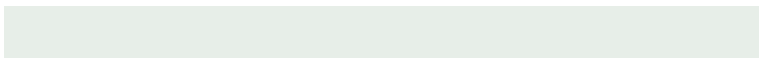
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



83.6178, 0.3058, 0.3218



83.6178, 0.3208, 0.3303



83.6178, 0.3116, 0.3349

# Complementary

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



83.6178, 0.3058, 0.3218



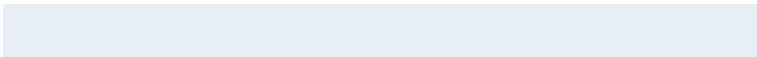
86.6521, 0.3197, 0.3361

# Split Complementary

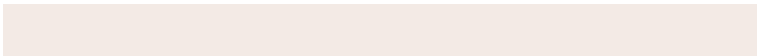
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



83.6178, 0.3161, 0.3366



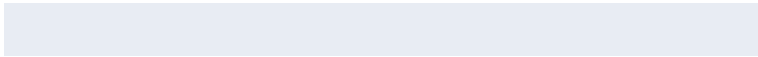
83.6178, 0.3058, 0.3218



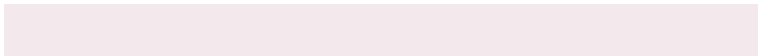
83.6178, 0.3214, 0.3340

# Square

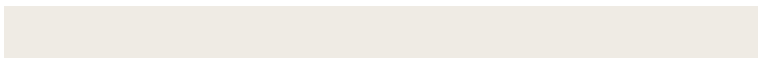
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



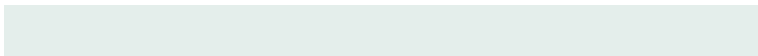
83.6178, 0.3058, 0.3218



83.6178, 0.3180, 0.3264



83.6178, 0.3197, 0.3363

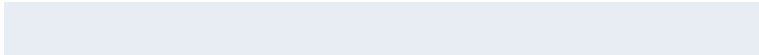


83.6178, 0.3075, 0.3316

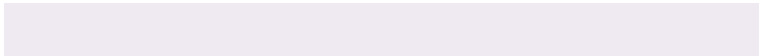


# Rectangle

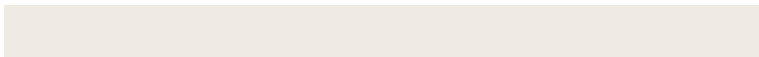
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



83.6178, 0.3058, 0.3218



83.6178, 0.3123, 0.3224



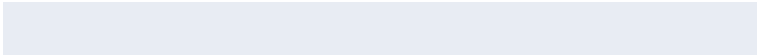
83.6178, 0.3197, 0.3363



83.6178, 0.3132, 0.3357

# Sweetspot

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



83.6214, 0.3058, 0.3218



98.4843, 0.3112, 0.3274



87.5087, 0.3080, 0.3331



21.0957, 0.3113, 0.3275



0.0000, 0.0000, 0.0000

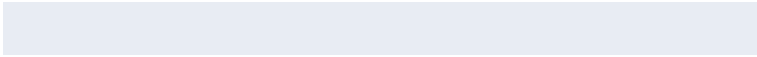


21.4041, 0.3127, 0.3290

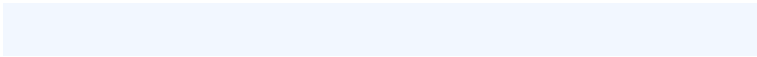


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



83.6214, 0.3058, 0.3218



92.5731, 0.3050, 0.3210



81.6060, 0.3069, 0.3177



17.9517, 0.3040, 0.3199



7.5901, 0.1653, 0.1151



0.8549, 0.1722, 0.1400



# Inverse Universe

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



82.8422, 0.3177, 0.3250



91.6195, 0.3182, 0.3246



88.7443, 0.3184, 0.3401



17.7421, 0.3190, 0.3240



10.8656, 0.5536, 0.2823

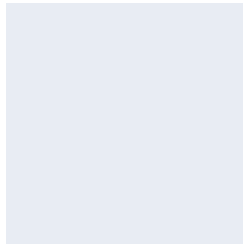


0.9739, 0.5191, 0.2633



# Previews

## White Background



This preview shows how the Yxy color 83.6178, 0.3058, 0.3218 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

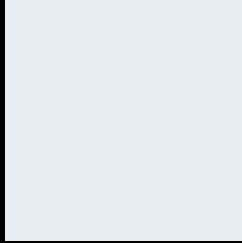
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.6178, 0.3058, 0.3218 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

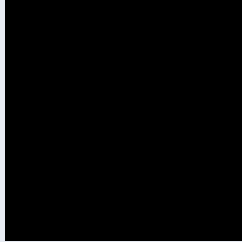
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

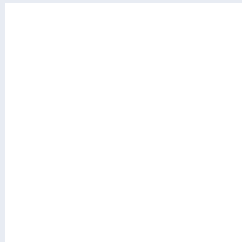
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 83.6178, 0.3058, 0.3218**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.6178, 0.3058, 0.3218.

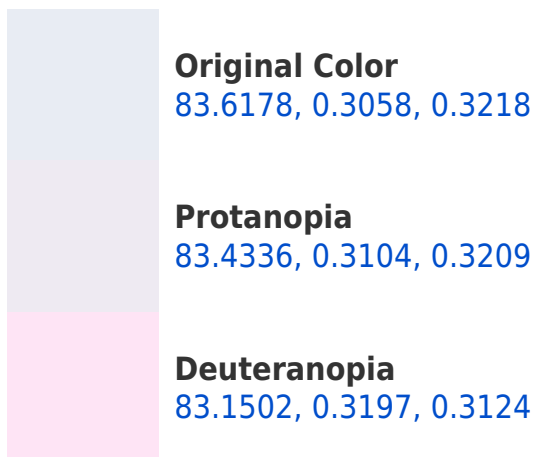


This preview shows how white text looks on a background with the Yxy color 83.6178, 0.3058, 0.3218.

# 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

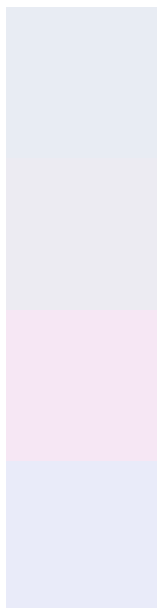




## Tritanopia

83.4299, 0.3011, 0.3098

# Trichromacy



## Original Color

83.6178, 0.3058, 0.3218

## Protanomaly

83.6603, 0.3091, 0.3219

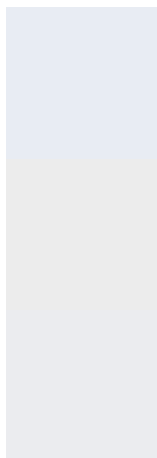
## Deuteranomaly

83.2763, 0.3147, 0.3161

## Tritanomaly

83.5799, 0.3029, 0.3148

# Monochromacy



## Original Color

83.6178, 0.3058, 0.3218

## Achromatopsia

83.8799, 0.3127, 0.3290

## Achromatomaly

83.8851, 0.3102, 0.3259

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.6178, 0.3058, 0.3218 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(232, 236, 243)` looks like.

```
.text, #text, p{  
    color:rgb(232, 236, 243)  
}
```

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(232, 236, 243) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 236, 243) }
```

## Border

The CSS property to change the border of an element to Yxy 83.6178, 0.3058, 0.3218 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(232, 236, 243) }
```

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

```
.border{ border-color:rgb(232, 236, 243) }
```

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

Here you see how a box with a 4 pixel rgb(232, 236, 243) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 236, 243); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 236, 243);  
box-shadow:4px 4px 4px 4px rgb(232, 236,  
243) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.6178, 0.3058, 0.3218 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 236, 243) }
```

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

```
.background{ background-color: rgb(232,  
236, 243) }
```

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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