

# Converting Colors

$Y_{xy}(85.2881, 0.3106, 0.3242)$

Have a look what the booklet for  
Yxy(85.2881, 0.3106, 0.3242)  
contains.

<b>Yxy(85.1563, 0.3103, 0.3239)</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(85.1563, 0.3103, 0.3239)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EEEDF2
RGB	238, 237, 242
RGB Percent	93%, 93%, 95%
CMY	0.0666, 0.0706, 0.0508
CMYK	0.02, 0.02, 0.00, 0.05
HSL	252°, 16%, 94%
HSV	252°, 2%, 95%
XYZ	81.5807, 85.1563, 96.1722
YIQ	237.8690, -1.0090, 1.7670

# Conversions

## Conversions Part 2

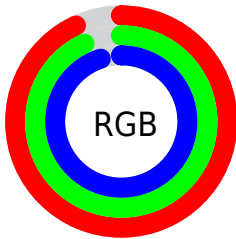
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	238, 237, 242
Decimal	15658482
CIE Lab	93.95, 1.25, -2.32
CIE LCh	94, 2.639, 298.282
Yxy	85.1563, 0.3103, 0.3239
Android (android.graphics.Color)	4293848562 (0xFFEEEDF2)
YUV	237.8690, 2.0366, 0.1149
Hunter-Lab	92.2802, -3.6865, 2.8055

# Details

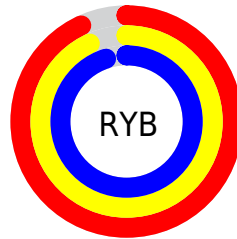
The Yxy color **85.1563, 0.3103, 0.3239** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **88.3460, 0.3151, 0.3341**, and the grayscale version is **85.3840, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **46.5380, 0.3096, 0.3225** is the 20% darker color. If you saturate the color by 10%, you get **68.9166, 0.2976, 0.2977**, and if you desaturate by 10%, it is **99.1932, 0.3202, 0.3415**.

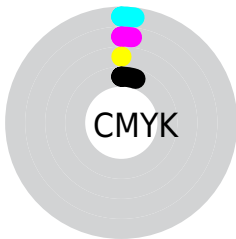
# Distribution



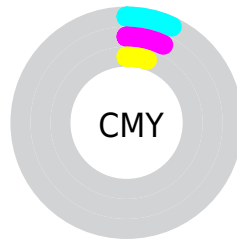
- Red (93%)
- Green (93%)
- Blue (95%)



- Red (93%)
- Yellow (93%)
- Blue (95%)



- Cyan (2%)
- Magenta (2%)
- Yellow (0%)
- Black (5%)



- Cyan (7%)
- Magenta (7%)
- Yellow (5%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 85.1563, 0.3103, 0.3239 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 85.1563, 0.3103, 0.3239 by changing the saturation by 10% instead.



85.1563, 0.3103,  
0.3239

85.1563, 0.3103,  
0.3239

512.1451, 0.3114,  
0.3262

63.9705, 0.3101,  
0.3234

140.5915, 0.3107,  
0.3247

46.6268, 0.3098,  
0.3228

175.6098, 0.3108,  
0.3250

32.7407, 0.3094,  
0.3220

216.0077, 0.3109,  
0.3253

21.9279, 0.3089,  
0.3210

262.1695, 0.3111,  
0.3255

13.8039, 0.3083,  
0.3197

314.4798, 0.3112,  
0.3257

7.9844, 0.3074,  
0.3178

373.3229, 0.3112,

4.0850, 0.3060,

0.3259

439.0832, 0.3113,  
0.3261

0.3150

■ 1.7212, 0.3038,  
0.3105

■ 0.4373, 0.2931,  
0.2873

■ 85.1563, 0.3103,  
0.3239

■ 85.1563, 0.3103,  
0.3239

■ 68.9166, 0.2976,  
0.2977

■ 99.1932, 0.3202,  
0.3415

■ 54.8360, 0.2831,  
0.2685

■ 42.8260, 0.2668,  
0.2368

■ 32.7879, 0.2489,  
0.2035

■ 24.6148, 0.2301,  
0.1697

■ 18.1896, 0.2112,  
0.1376

■ 13.3817, 0.1934,  
0.1093

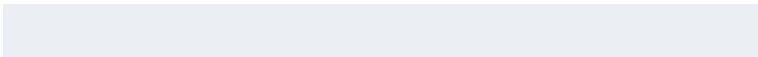
■ 10.0415, 0.1779,  
0.0870

■ 7.9907, 0.1659,  
0.0720

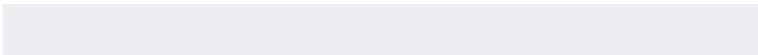
# Harmonies

## Analogous

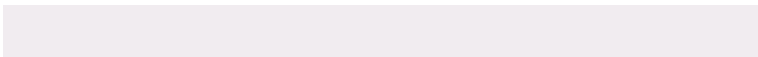
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



85.1563, 0.3079, 0.3242



85.1563, 0.3103, 0.3239



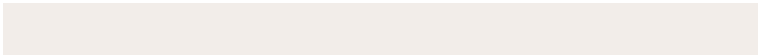
85.1563, 0.3133, 0.3250

# Triad

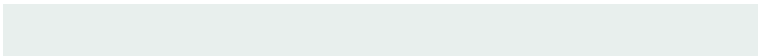
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



85.1563, 0.3103, 0.3239



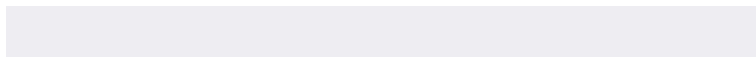
85.1563, 0.3186, 0.3323



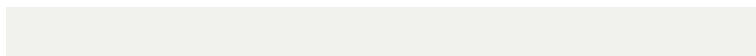
85.1563, 0.3093, 0.3309

# Complementary

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



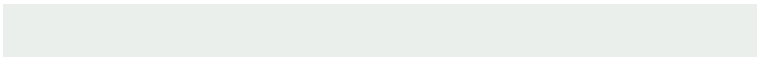
85.1563, 0.3103, 0.3239



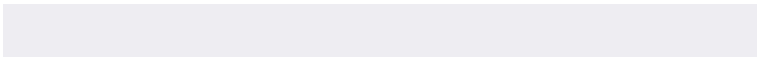
88.3460, 0.3151, 0.3341

# Split Complementary

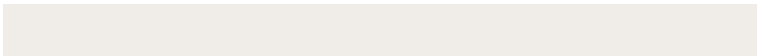
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



85.1563, 0.3121, 0.3331



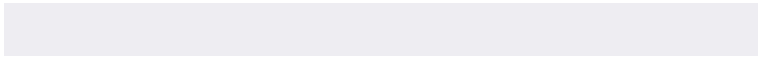
85.1563, 0.3103, 0.3239



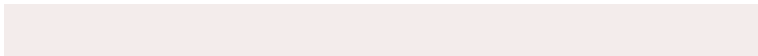
85.1563, 0.3175, 0.3339

# Square

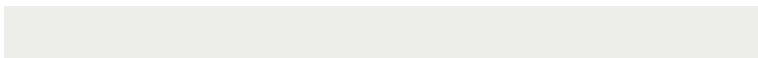
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



85.1563, 0.3103, 0.3239



85.1563, 0.3181, 0.3298



85.1563, 0.3151, 0.3342

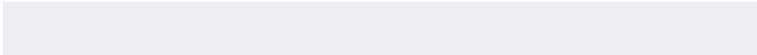


85.1563, 0.3074, 0.3282

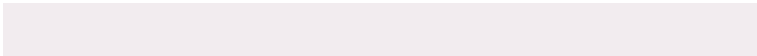


# Rectangle

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



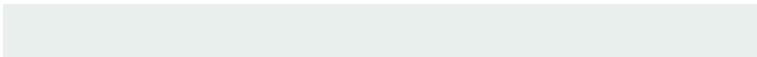
85.1563, 0.3103, 0.3239



85.1563, 0.3153, 0.3264



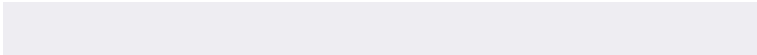
85.1563, 0.3151, 0.3342



85.1563, 0.3102, 0.3317

# Sweetspot

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



85.1599, 0.3103, 0.3239



98.0005, 0.3116, 0.3266



87.3464, 0.3095, 0.3280



20.9972, 0.3116, 0.3267



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.



85.1599, 0.3103, 0.3239



94.0782, 0.3092, 0.3216



85.5967, 0.3120, 0.3239



17.3418, 0.3083, 0.3196



3.8435, 0.1601, 0.0656

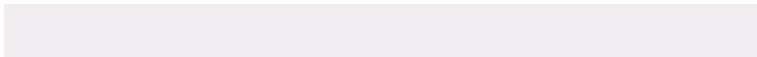


0.3605, 0.1720, 0.0721



# Inverse Universe

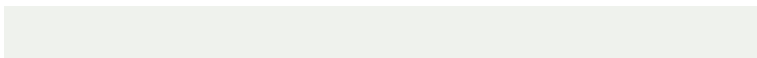
The Inverse Universe completely reimagines the original color for something new.



85.8020, 0.3136, 0.3250



95.1160, 0.3140, 0.3232



87.9080, 0.3135, 0.3341



17.5855, 0.3143, 0.3217



12.2246, 0.3801, 0.1868

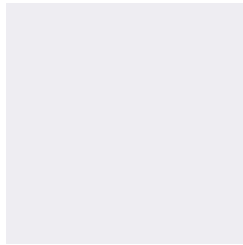


1.0307, 0.3708, 0.1816



# Previews

## White Background



This preview shows how the Yxy color 85.1563, 0.3103, 0.3239 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

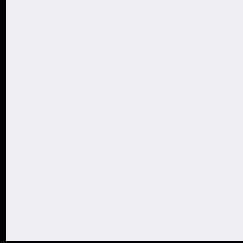
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 85.1563, 0.3103, 0.3239 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

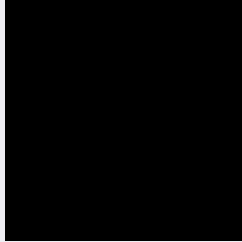
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

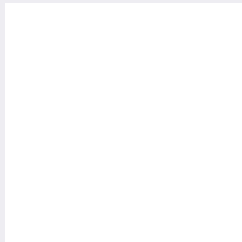
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 85.1563, 0.3103, 0.3239**

## **Background**



This preview shows how black text looks on a background with the Yxy color 85.1563, 0.3103, 0.3239.

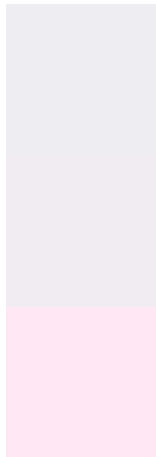


This preview shows how white text looks on a background with the Yxy color 85.1563, 0.3103, 0.3239.

# 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

85.1563, 0.3103, 0.3239

### Protanopia

84.9270, 0.3117, 0.3230

### Deuteranopia

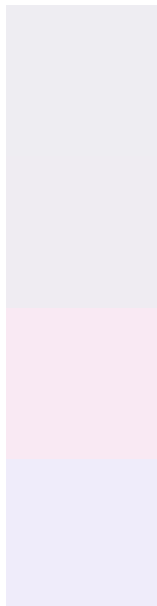
84.8829, 0.3214, 0.3173



## Tritanopia

85.0977, 0.3044, 0.3101

# Trichromacy



## Original Color

85.1563, 0.3103, 0.3239

## Protanomaly

84.7524, 0.3110, 0.3229

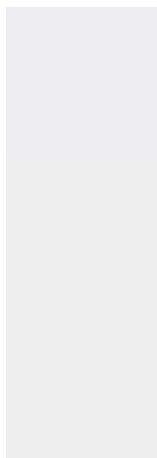
## Deuteranomaly

84.8886, 0.3172, 0.3191

## Tritanomaly

85.2438, 0.3061, 0.3150

# Monochromacy



## Original Color

85.1563, 0.3103, 0.3239

## Achromatopsia

85.4993, 0.3127, 0.3290

## Achromatomaly

85.5582, 0.3121, 0.3280

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 85.1563, 0.3103, 0.3239 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, 237, 242)` looks like.

```
.text, #text, p{  
    color:rgb(238, 237, 242)  
}
```

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, 237, 242) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(238, 237, 242) }
```

## Border

The CSS property to change the border of an element to Yxy 85.1563, 0.3103, 0.3239 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, 237, 242) }
```

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

```
.border{ border-color:rgb(238, 237, 242) }
```

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

Here you see how a box with a 4 pixel `rgb(238, 237, 242)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(238, 237, 242); -webkit-box-  
shadow:4px 4px 4px 4px rgb(238, 237, 242);  
box-shadow:4px 4px 4px 4px rgb(238, 237,  
242) }
```



# Background

The CSS property to change the background color of an element to Yxy 85.1563, 0.3103, 0.3239 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(238, 237, 242) }
```

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

```
.background{ background-color: rgb(238,  
237, 242) }
```

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