

# Converting Colors

$Y_{xy}(68.2175, 0.2938, 0.3166)$

Have a look what the booklet for  
Yxy(68.2175, 0.2938, 0.3166)  
contains.

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# Color

**Yxy(68.2175, 0.2938, 0.3166)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C9DAE5
RGB	201, 218, 229
RGB Percent	79%, 85%, 90%
CMY	0.2117, 0.1451, 0.1020
CMYK	0.12, 0.05, 0.00, 0.10
HSL	204°, 35%, 84%
HSV	204°, 12%, 90%
XYZ	63.3048, 68.2175, 83.9467
YIQ	214.1710, -13.6630, -0.1830

# Conversions

## Conversions Part 2

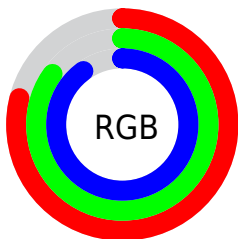
Format	Color
R <sub>Y</sub> B	201, 212, 229
Decimal	13228773
CIE Lab	86.12, -3.50, -7.33
CIE LCh	86, 8.123, 244.486
Yxy	68.2175, 0.2938, 0.3166
Android (android.graphics.Color)	4291418853 (0xFFC9DAE5)
YUV	214.1710, 7.3107, -11.5510
Hunter-Lab	82.5939, -7.7264, -2.4454

# Details

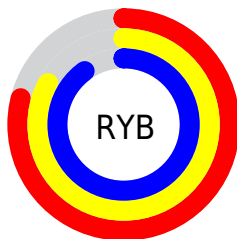
The Yxy color **68.2175, 0.2938, 0.3166** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **67.9665, 0.3332, 0.3411**, and the grayscale version is **67.3268, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **35.4534, 0.2890, 0.3127** is the 20% darker color. If you saturate the color by 10%, you get **60.7390, 0.2781, 0.3052**, and if you desaturate by 10%, it is **76.4281, 0.3093, 0.3269**.

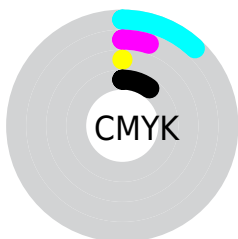
# Distribution



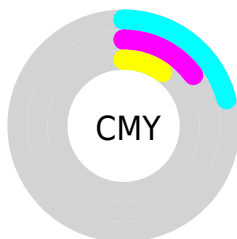
- Red (79%)
- Green (85%)
- Blue (90%)



- Red (79%)
- Yellow (83%)
- Blue (90%)



- Cyan (12%)
- Magenta (5%)
- Yellow (0%)
- Black (10%)



- Cyan (21%)
- Magenta (15%)
- Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.2175, 0.2938, 0.3166 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 68.2175, 0.2938, 0.3166 by changing the saturation by 10% instead.



■ 68.2175, 0.2938,  
0.3166

■ 68.2175, 0.2938,  
0.3166

454.2662, 0.3026,  
0.3225

■ 50.0747, 0.2918,  
0.3152

116.6632, 0.2969,  
0.3187

■ 35.4728, 0.2893,  
0.3135

147.7350, 0.2981,  
0.3194

■ 24.0273, 0.2861,  
0.3114

183.8851, 0.2991,  
0.3201

■ 15.3539, 0.2819,  
0.3085

225.4981, 0.3000,  
0.3207

■ 9.0681, 0.2761,  
0.3045

272.9583, 0.3008,  
0.3212

■ 4.7856, 0.2677,  
0.2985

326.6502, 0.3014,

■ 2.1220, 0.2543,

0.3217

0.2889

386.9580, 0.3021,  
0.3221

0.6770, 0.2220,  
0.2693

0.0000, 0.0000,  
0.0000

68.2175, 0.2938,  
0.3166

68.2175, 0.2938,  
0.3166

60.7390, 0.2781,  
0.3052

76.4281, 0.3093,  
0.3269

53.9592, 0.2624,  
0.2928

85.3856, 0.3244,  
0.3361

47.8545, 0.2472,  
0.2793

92.2151, 0.3291,  
0.3447

42.3963, 0.2327,  
0.2650

97.7916, 0.3281,  
0.3533

■ 37.5536, 0.2196,  
0.2501

■ 98.4362, 0.3280,  
0.3542

■ 33.2920, 0.2081,  
0.2348

■ 29.5726, 0.1987,  
0.2195

■ 26.3491, 0.1914,  
0.2044

■ 24.1263, 0.1869,  
0.1929

# Harmonies

## Analogous

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



68.2175, 0.2943, 0.3242



68.2175, 0.2938, 0.3166



68.2175, 0.2982, 0.3124

# Triad

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



68.2175, 0.2938, 0.3166



68.2175, 0.3258, 0.3246



68.2175, 0.3187, 0.3460

# Complementary

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



68.2175, 0.2938, 0.3166



67.9665, 0.3332, 0.3411

# 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.



68.2175, 0.3273, 0.3458



68.2175, 0.2938, 0.3166



68.2175, 0.3315, 0.3333

# Square

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



68.2175, 0.2938, 0.3166



68.2175, 0.3167, 0.3171



68.2175, 0.3320, 0.3411



68.2175, 0.3086, 0.3414



# Rectangle

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



68.2175, 0.2938, 0.3166



68.2175, 0.3035, 0.3121



68.2175, 0.3320, 0.3411



68.2175, 0.3218, 0.3465

# Sweetspot

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



68.2203, 0.2938, 0.3166



95.5862, 0.3065, 0.3251



73.1917, 0.3045, 0.3485



20.2854, 0.3054, 0.3243



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

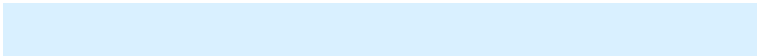


# Same Dimension

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



68.2203, 0.2938, 0.3166



84.2369, 0.2893, 0.3134



61.4009, 0.2935, 0.3008



15.3360, 0.2981, 0.3195



14.0373, 0.1876, 0.1952



1.2170, 0.1936, 0.2168



# Inverse Universe

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



63.5034, 0.3221, 0.3106



77.0465, 0.3246, 0.3061



75.1156, 0.3314, 0.3557



14.5143, 0.3198, 0.3148



10.6148, 0.4507, 0.2257

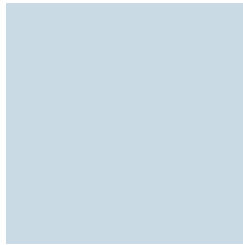


0.8025, 0.4267, 0.2124



# Previews

## White Background



This preview shows how the Yxy color 68.2175, 0.2938, 0.3166 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

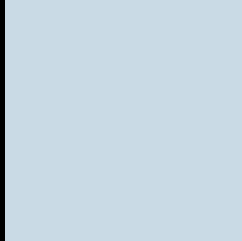
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.2175, 0.2938, 0.3166 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

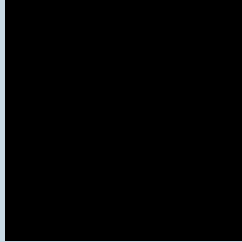
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

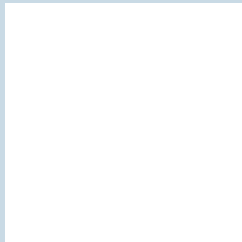
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 68.2175, 0.2938, 0.3166**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.2175, 0.2938, 0.3166.



This preview shows how white text looks on a background with the Yxy color 68.2175, 0.2938, 0.3166.

# 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

68.2175, 0.2938, 0.3166

### Protanopia

68.1831, 0.3061, 0.3158

### Deuteranopia

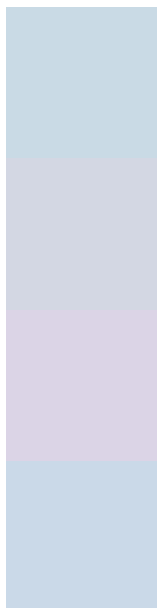
68.0285, 0.3123, 0.3056



## Tritanopia

68.1228, 0.2913, 0.3100

# Trichromacy



## Original Color

68.2175, 0.2938, 0.3166

## Protanomaly

67.9958, 0.3019, 0.3157

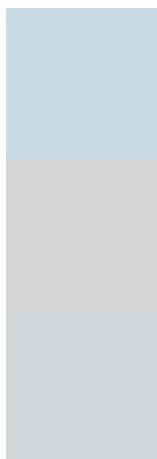
## Deuteranomaly

67.8602, 0.3057, 0.3094

## Tritanomaly

68.0085, 0.2926, 0.3122

# Monochromacy



## Original Color

68.2175, 0.2938, 0.3166

## Achromatopsia

67.2443, 0.3127, 0.3290

## Achromatomaly

67.2707, 0.3057, 0.3245

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.2175, 0.2938, 0.3166 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(201, 218, 229)` looks like.

```
.text, #text, p{  
    color:rgb(201, 218, 229)  
}
```

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(201, 218, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(201, 218, 229) }
```

## Border

The CSS property to change the border of an element to Yxy 68.2175, 0.2938, 0.3166 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(201, 218, 229) }
```

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

```
.border{ border-color:rgb(201, 218, 229) }
```

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

Here you see how a box with a 4 pixel `rgb(201, 218, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(201, 218, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(201, 218, 229);  
box-shadow:4px 4px 4px 4px rgb(201, 218,  
229) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.2175, 0.2938, 0.3166 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(201, 218, 229) }
```

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

```
.background{ background-color: rgb(201,  
218, 229) }
```

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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