

# Converting Colors

$Y_{xy}(36.9000, 0.2618, 0.2936)$

Have a look what the booklet for  
Yxy(36.9000, 0.2618, 0.2936)  
contains.

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# Color

**Yxy(36.8933, 0.2617, 0.2937)**

# Conversions

## Conversions Part 1

Format	Color
Hex	81A9C1
RGB	129, 169, 193
RGB Percent	51%, 66%, 76%
CMY	0.4939, 0.3373, 0.2431
CMYK	0.33, 0.12, 0.00, 0.24
HSL	203°, 34%, 63%
HSV	203°, 33%, 76%
XYZ	32.8736, 36.8933, 55.8487
YIQ	159.7760, -31.5440, -1.0160

# Conversions

## Conversions Part 2

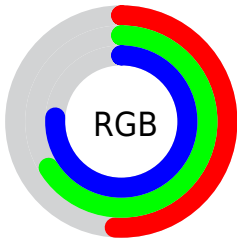
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	129, 154, 193
Decimal	8497601
CIE <sub>Lab</sub>	67.20, -7.63, -16.65
CIE <sub>LCh</sub>	67, 18.320, 245.370
Yxy	36.8933, 0.2617, 0.2937
Android (android.graphics.Color)	4286687681 (0xFF81A9C1)
YUV	159.7760, 16.3794, -26.9906
Hunter-Lab	60.7399, -9.6870, -11.9977

# Details

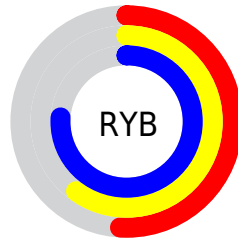
The Yxy color **36.8933, 0.2617, 0.2937** is a light color, and the websafe version is hex **669999**. A complement of this color would be **35.7329, 0.3781, 0.3616**, and the grayscale version is **34.9848, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.2181, 0.2712, 0.3009**, and **16.1644, 0.2468, 0.2833** is the 20% darker color. If you saturate the color by 10%, you get **32.8997, 0.2468, 0.2810**, and if you desaturate by 10%, it is **41.3249, 0.2771, 0.3055**.

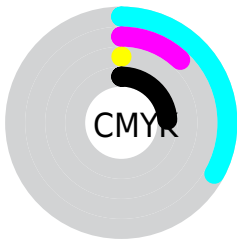
# Distribution



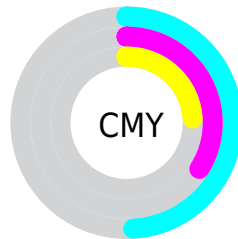
- Red (51%)
- Green (66%)
- Blue (76%)



- Red (51%)
- Yellow (60%)
- Blue (76%)



- Cyan (33%)
- Magenta (12%)
- Yellow (0%)
- Black (24%)




- Cyan (49%)
- Magenta (34%)
- Yellow (24%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.8933, 0.2617, 0.2937 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 36.8933, 0.2617, 0.2937 by changing the saturation by 10% instead.





 36.8933, 0.2617,  
0.2937

 36.8933, 0.2617,  
0.2937


332.8483, 0.2877,  
0.3122


 25.1249, 0.2551,  
0.2888


 70.4086, 0.2713,  
0.3006

 16.1701, 0.2465,  
0.2824


 92.9244, 0.2748,  
0.3032

 9.6446, 0.2349,  
0.2736


 119.7913, 0.2778,  
0.3053

 5.1640, 0.2187,  
0.2609

151.3939, 0.2804,  
0.3071

 2.3438, 0.1943,  
0.2410

188.1165, 0.2826,  
0.3086

 0.7967, 0.1486,  
0.2074

230.3435, 0.2845,

 0.0000, 0.0000,

0.3100

0.0000

278.4593, 0.2862,  
0.3112

■ 36.8933, 0.2617,  
0.2937

■ 36.8933, 0.2617,  
0.2937

■ 32.8997, 0.2468,  
0.2810

■ 41.3249, 0.2771,  
0.3055

■ 29.3212, 0.2328,  
0.2675

■ 46.2074, 0.2926,  
0.3163

■ 26.1392, 0.2201,  
0.2534

■ 51.5582, 0.3080,  
0.3261

■ 23.3312, 0.2091,  
0.2390

■ 57.3927, 0.3230,  
0.3349

■ 20.8719, 0.2000,  
0.2245

■ 63.7252, 0.3375,  
0.3428

■ 18.7312, 0.1930,  
0.2102

■ 70.5694, 0.3513,  
0.3497

■ 17.4096, 0.1891,  
0.2006

■ 76.1593, 0.3575,  
0.3564

■ 80.0416, 0.3558,  
0.3636

■ 84.0908, 0.3541,  
0.3706

# Harmonies

## Analogous

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



36.8933, 0.2626, 0.3140



36.8933, 0.2617, 0.2937



36.8933, 0.2736, 0.2838

# Triad

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



36.8933, 0.2617, 0.2937



36.8933, 0.3498, 0.3171



36.8933, 0.3276, 0.3772

# Complementary

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



36.8933, 0.2617, 0.2937



35.7329, 0.3781, 0.3616

# 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.



36.8933, 0.3521, 0.3758



36.8933, 0.2617, 0.2937



36.8933, 0.3655, 0.3402

# Square

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



36.8933, 0.2617, 0.2937



36.8933, 0.3240, 0.2975



36.8933, 0.3663, 0.3617



36.8933, 0.2999, 0.3639



# Rectangle

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



36.8933, 0.2617, 0.2937



36.8933, 0.2877, 0.2837



36.8933, 0.3663, 0.3617



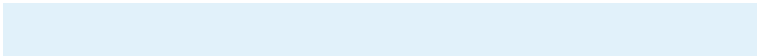
36.8933, 0.3365, 0.3783

# Sweetspot

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



36.8948, 0.2617, 0.2937



85.5122, 0.2972, 0.3194



45.1013, 0.2923, 0.3895



18.0611, 0.2950, 0.3179



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290

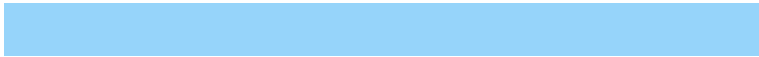


# Same Dimension

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



36.8948, 0.2617, 0.2937



60.6395, 0.2505, 0.2843



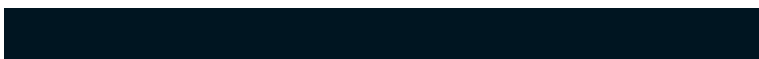
26.5788, 0.2556, 0.2451



10.7721, 0.2984, 0.3201



11.7352, 0.1896, 0.2024



0.6360, 0.1983, 0.2339



# Inverse Universe

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



29.9178, 0.3418, 0.2763



46.8705, 0.3507, 0.2642



47.4092, 0.3653, 0.4008



10.1813, 0.3194, 0.3147



8.4669, 0.4425, 0.2211

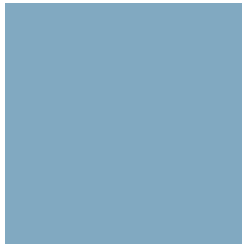


0.3788, 0.4086, 0.2025



# Previews

## White Background



This preview shows how the Yxy color 36.8933, 0.2617, 0.2937 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

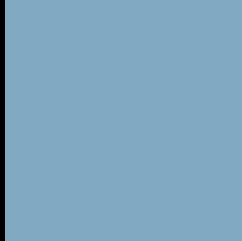
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.8933, 0.2617, 0.2937 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

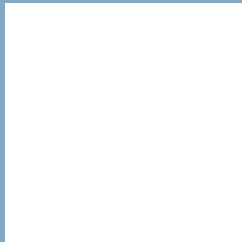
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 36.8933, 0.2617, 0.2937**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.8933, 0.2617, 0.2937.



This preview shows how white text looks on a background with the Yxy color 36.8933, 0.2617, 0.2937.

# 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

36.8933, 0.2617, 0.2937

### Protanopia

36.7406, 0.2874, 0.2925

### Deuteranopia

36.5229, 0.2860, 0.2797



## Tritanopia

36.7222, 0.2665, 0.3079

# Trichromacy



## Original Color

36.8933, 0.2617, 0.2937

## Protanomaly

36.8310, 0.2769, 0.2932

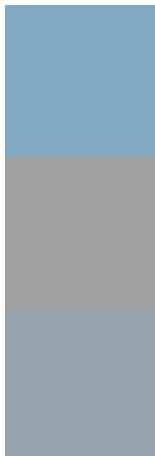
## Deuteranomaly

36.6687, 0.2770, 0.2853

## Tritanomaly

36.9265, 0.2652, 0.3036

# Monochromacy



## Original Color

36.8933, 0.2617, 0.2937

## Achromatopsia

35.1533, 0.3127, 0.3290

## Achromatomaly

35.5625, 0.2924, 0.3157

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  36.8933, 0.2617, 0.2937 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(129, 169, 193)` looks like.

```
.text, #text, p{  
    color:rgb(129, 169, 193)  
}
```

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(129, 169, 193) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 169, 193) }
```

## Border

The CSS property to change the border of an element to Yxy 36.8933, 0.2617, 0.2937 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(129, 169, 193) }
```

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

```
.border{ border-color:rgb(129, 169, 193) }
```

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

Here you see how a box with a 4 pixel `rgb(129, 169, 193)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(129, 169, 193); -webkit-box-shadow:4px 4px 4px 4px rgb(129, 169, 193); box-shadow:4px 4px 4px 4px rgb(129, 169, 193) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.8933, 0.2617, 0.2937 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 169, 193) }
```

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

```
.background{ background-color: rgb(129,  
169, 193) }
```

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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