

# Converting Colors

$Y_{xy}(38.8823, 0.3110, 0.3237)$

Have a look what the booklet for  
Yxy(38.8823, 0.3110, 0.3237)  
contains.

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# Color

**Yxy(38.9025, 0.3102, 0.3234)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A8A7AB
RGB	168, 167, 171
RGB Percent	66%, 65%, 67%
CMY	0.3413, 0.3451, 0.3294
CMYK	0.02, 0.02, 0.00, 0.33
HSL	254°, 2%, 66%
HSV	254°, 2%, 67%
XYZ	37.3146, 38.9025, 44.0751
YIQ	167.7550, -0.6880, 1.4560

# Conversions

## Conversions Part 2

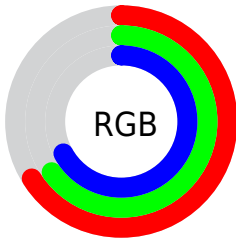
<b>Format</b>	<b>Color</b>
<b>RYB</b>	168, 167, 171
Decimal	11052971
CIELab	68.68, 1.11, -1.95
CIELCh	69, 2.242, 299.739
Yxy	38.9025, 0.3102, 0.3234
Android (android.graphics.Color)	4289243051 (0xFFA8A7AB)
YUV	167.7550, 1.5998, 0.2149
Hunter-Lab	62.3719, -2.3612, 1.7630

# Details

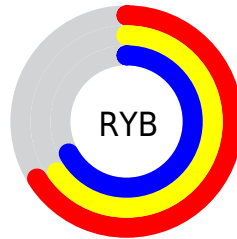
The Yxy color **38.9025, 0.3102, 0.3234** is a light color, and the websafe version is hex **999999**. A complement of this color would be **40.4713, 0.3152, 0.3346**, and the grayscale version is **39.0233, 0.3127, 0.3290**.

A 20% lighter version of the original color is **73.4215, 0.3108, 0.3247**, and **17.3064, 0.3092, 0.3212** is the 20% darker color. If you saturate the color by 10%, you get **31.6935, 0.2984, 0.2978**, and if you desaturate by 10%, it is **47.0854, 0.3204, 0.3463**.

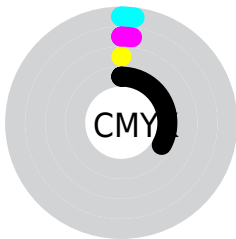
# Distribution



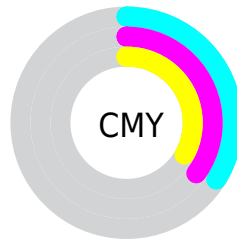
- Red (66%)
- Green (65%)
- Blue (67%)



- Red (66%)
- Yellow (65%)
- Blue (67%)



- Cyan (2%)
- Magenta (2%)
- Yellow (0%)
- Black (33%)




- Cyan (34%)
- Magenta (35%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.9025, 0.3102, 0.3234 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 38.9025, 0.3102, 0.3234 by changing the saturation by 10% instead.




 38.9025, 0.3102,  
0.3234


 38.9025, 0.3102,  
0.3234

341.4758, 0.3115,  
0.3263

 26.6839, 0.3099,  
0.3227


 73.4893, 0.3107,  
0.3245

 17.3360, 0.3094,  
0.3217


 96.6264, 0.3109,  
0.3249

 10.4743, 0.3088,  
0.3203


124.1717, 0.3110,  
0.3252

 5.7146, 0.3079,  
0.3184

156.5096, 0.3111,  
0.3255

 2.6723, 0.3065,  
0.3154

194.0246, 0.3113,  
0.3257

 0.9631, 0.3040,  
0.3100

237.1010, 0.3113,

 0.0000, 0.0000,

0.3259

0.0000

286.1233, 0.3114,  
0.3261

■ 38.9025, 0.3102,  
0.3234

■ 38.9025, 0.3102,  
0.3234

■ 31.6935, 0.2984,  
0.2978

■ 47.0854, 0.3204,  
0.3463

■ 25.4171, 0.2849,  
0.2695

■ 56.2717, 0.3290,  
0.3665

■ 20.0361, 0.2698,  
0.2389

■ 66.4959, 0.3364,  
0.3844

■ 15.5092, 0.2531,  
0.2067

■ 77.7891, 0.3427,  
0.4000

■ 11.7916, 0.2354,  
0.1742

■ 90.1814, 0.3481,  
0.4137

■ 8.8343, 0.2174,  
0.1429

■ 94.0181, 0.3563,  
0.4133

■ 6.5832, 0.2001,  
0.1150

■ 95.7207, 0.3626,  
0.4115

■ 4.9764, 0.1846,  
0.0923

■ 3.9410, 0.1718,  
0.0763

# Harmonies

## Analogous

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



38.9025, 0.3076, 0.3236



38.9025, 0.3102, 0.3234



38.9025, 0.3135, 0.3247

# Triad

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



38.9025, 0.3102, 0.3234



38.9025, 0.3192, 0.3327



38.9025, 0.3088, 0.3309

# Complementary

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



38.9025, 0.3102, 0.3234



40.4713, 0.3152, 0.3346

# 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.



38.9025, 0.3119, 0.3334



38.9025, 0.3102, 0.3234



38.9025, 0.3179, 0.3344

# Square

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



38.9025, 0.3102, 0.3234



38.9025, 0.3187, 0.3300



38.9025, 0.3152, 0.3347



38.9025, 0.3067, 0.3280



# Rectangle

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



38.9025, 0.3102, 0.3234



38.9025, 0.3157, 0.3262



38.9025, 0.3152, 0.3347



38.9025, 0.3097, 0.3319

# Sweetspot

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



38.9042, 0.3102, 0.3234



71.5008, 0.3116, 0.3266



39.9357, 0.3092, 0.3277



15.9624, 0.3117, 0.3267



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290

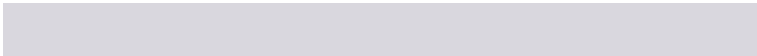


# Same Dimension

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



38.9042, 0.3102, 0.3234



68.6872, 0.3094, 0.3217



39.1217, 0.3120, 0.3234



8.7933, 0.3087, 0.3200



2.5976, 0.1649, 0.0682



0.0974, 0.1968, 0.0858



# Inverse Universe

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



39.2043, 0.3138, 0.3248



69.3861, 0.3141, 0.3235



40.2536, 0.3134, 0.3346



8.9036, 0.3145, 0.3223



7.7444, 0.3919, 0.1933



0.2233, 0.3664, 0.1792



# Previews

## White Background



This preview shows how the Yxy color 38.9025, 0.3102, 0.3234 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 38.9025, 0.3102, 0.3234 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

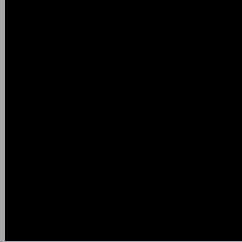
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

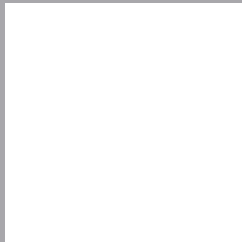
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 38.9025, 0.3102, 0.3234**

## Background



This preview shows how black text looks on a background with the Yxy color 38.9025, 0.3102, 0.3234.



This preview shows how white text looks on a background with the Yxy color 38.9025, 0.3102, 0.3234.

# 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

38.9025, 0.3102, 0.3234

### Protanopia

39.0127, 0.3111, 0.3234

### Deuteranopia

38.7643, 0.3228, 0.3156



## Tritanopia

38.9621, 0.3045, 0.3111

# Trichromacy



## Original Color

38.9025, 0.3102, 0.3234

## Protanomaly

39.0127, 0.3111, 0.3234

## Deuteranomaly

38.8766, 0.3179, 0.3181

## Tritanomaly

38.8420, 0.3070, 0.3151

# Monochromacy



## Original Color

38.9025, 0.3102, 0.3234

## Achromatopsia

39.1572, 0.3127, 0.3290

## Achromatomaly

39.1947, 0.3119, 0.3276

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.9025, 0.3102, 0.3234 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(168, 167, 171)` looks like.

```
.text, #text, p{  
    color:rgb(168, 167, 171)  
}
```

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(168, 167, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 167, 171) }
```

## Border

The CSS property to change the border of an element to Yxy 38.9025, 0.3102, 0.3234 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(168, 167, 171) }
```

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

```
.border{ border-color:rgb(168, 167, 171) }
```

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

Here you see how a box with a 4 pixel rgb(168, 167, 171) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 167, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 167, 171);  
box-shadow:4px 4px 4px 4px rgb(168, 167,  
171) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.9025, 0.3102, 0.3234 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 167, 171) }
```

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

```
.background{ background-color: rgb(168,  
167, 171) }
```

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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