

# Converting Colors

$Y_{xy}(49.7962, 0.2988, 0.3240)$

Have a look what the booklet for  
Yxy(49.7962, 0.2988, 0.3240)  
contains.

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# Color

**Yxy(49.9521, 0.2986, 0.3238)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B0BEC2
RGB	176, 190, 194
RGB Percent	69%, 75%, 76%
CMY	0.3096, 0.2549, 0.2392
CMYK	0.09, 0.02, 0.00, 0.24
HSL	193°, 13%, 73%
HSV	193°, 9%, 76%
XYZ	46.0645, 49.9521, 58.2517
YIQ	186.2700, -9.6280, -1.7240

# Conversions

## Conversions Part 2

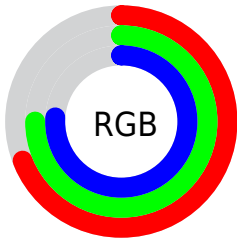
Format	Color
<a href="#">RYB</a>	<a href="#">176, 184, 194</a>
Decimal	<a href="#">11583170</a>
CIELab	<a href="#">76.04, -3.98, -3.67</a>
CIElCh	<a href="#">76, 5.412, 222.710</a>
Yxy	<a href="#">49.9521, 0.2986, 0.3238</a>
Android (android.graphics.Color)	<a href="#">4289773250 (0xFFB0BEC2)</a>
YUV	<a href="#">186.2700, 3.8109, -9.0068</a>
Hunter-Lab	<a href="#">70.6768, -7.3447, 0.6070</a>

# Details

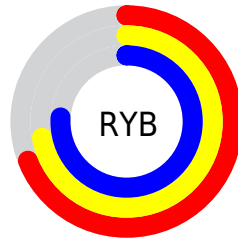
The Yxy color **49.9521, 0.2986, 0.3238** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **47.2751, 0.3281, 0.3341**, and the grayscale version is **49.2500, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.9695, 0.3016, 0.3250**, and **23.9957, 0.2947, 0.3237** is the 20% darker color. If you saturate the color by 10%, you get **46.0011, 0.2835, 0.3177**, and if you desaturate by 10%, it is **54.2863, 0.3139, 0.3294**.

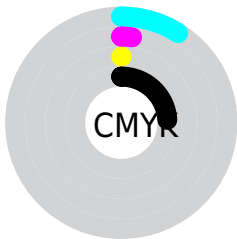
# Distribution



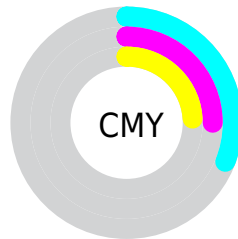
- Red (69%)
- Green (75%)
- Blue (76%)



- Red (69%)
- Yellow (72%)
- Blue (76%)



- Cyan (9%)
- Magenta (2%)
- Yellow (0%)
- Black (24%)



- Cyan (31%)
- Magenta (25%)
- Yellow (24%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.9521, 0.2986, 0.3238 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 49.9521, 0.2986, 0.3238 by changing the saturation by 10% instead.



■ 49.9521, 0.2986,  
0.3238

■ 49.9521, 0.2986,  
0.3238

386.4786, 0.3056,  
0.3264

■ 35.3753, 0.2969,  
0.3231

■ 90.1039, 0.3011,  
0.3248

■ 23.9521, 0.2947,  
0.3223

116.4477, 0.3021,  
0.3251

■ 15.2981, 0.2919,  
0.3212

147.4827, 0.3029,  
0.3254

■ 9.0289, 0.2879,  
0.3196

183.5932, 0.3035,  
0.3257

■ 4.7600, 0.2821,  
0.3173

225.1637, 0.3041,  
0.3259

■ 2.1072, 0.2728,  
0.3133

272.5785, 0.3047,

■ 0.6686, 0.2457,

0.3261

0.3051

326.2220, 0.3051,  
0.3263

0.0000, 0.0000,  
0.0000

49.9521, 0.2986,  
0.3238

49.9521, 0.2986,  
0.3238

46.0011, 0.2835,  
0.3177

54.2863, 0.3139,  
0.3294

42.4130, 0.2690,  
0.3110

59.0108, 0.3291,  
0.3344

39.1748, 0.2552,  
0.3038

64.1403, 0.3441,  
0.3389

36.2701, 0.2426,  
0.2962

69.6867, 0.3586,  
0.3429

33.6813, 0.2314,  
0.2883

72.0747, 0.3587,  
0.3473

■ 31.3887, 0.2218,  
0.2802

■ 74.2668, 0.3577,  
0.3517

■ 29.3699, 0.2142,  
0.2720

■ 76.5175, 0.3566,  
0.3560

■ 27.5988, 0.2085,  
0.2638

■ 78.8273, 0.3556,  
0.3603

■ 26.0295, 0.2045,  
0.2557

■ 81.1965, 0.3547,  
0.3645

# Harmonies

## Analogous

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



49.9521, 0.3017, 0.3304



49.9521, 0.2986, 0.3238



49.9521, 0.2993, 0.3187

# Triad

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



49.9521, 0.2986, 0.3238



49.9521, 0.3177, 0.3215



49.9521, 0.3220, 0.3418

# Complementary

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



49.9521, 0.2986, 0.3238



47.2751, 0.3281, 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.



49.9521, 0.3264, 0.3392



49.9521, 0.2986, 0.3238



49.9521, 0.3239, 0.3275

# Square

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



49.9521, 0.2986, 0.3238



49.9521, 0.3102, 0.3175



49.9521, 0.3271, 0.3340



49.9521, 0.3151, 0.3409



# Rectangle

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



49.9521, 0.2986, 0.3238



49.9521, 0.3017, 0.3168



49.9521, 0.3271, 0.3340



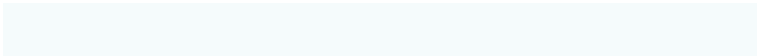
49.9521, 0.3238, 0.3413

# Sweetspot

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



49.9542, 0.2986, 0.3238



95.2902, 0.3081, 0.3273



51.1130, 0.3088, 0.3473



20.7263, 0.3068, 0.3269



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

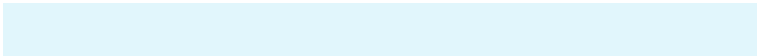


# Same Dimension

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



49.9542, 0.2986, 0.3238



89.0736, 0.2957, 0.3227



46.2364, 0.2985, 0.3122



11.0343, 0.2984, 0.3237



17.1653, 0.2045, 0.2561



0.8381, 0.2095, 0.2742



# Inverse Universe

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



46.2592, 0.3170, 0.3115



81.1263, 0.3180, 0.3078



50.9649, 0.3270, 0.3452



10.2077, 0.3171, 0.3113



9.0151, 0.3862, 0.1901



0.3992, 0.3689, 0.1806



# Previews

## White Background



This preview shows how the Yxy color 49.9521, 0.2986, 0.3238 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

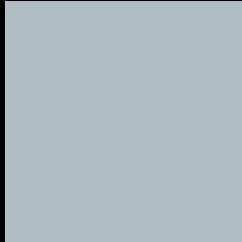
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.9521, 0.2986, 0.3238 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

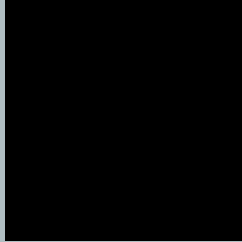
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

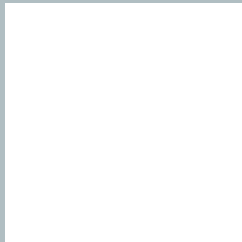
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.9521, 0.2986, 0.3238**

## Background



This preview shows how black text looks on a background with the Yxy color 49.9521, 0.2986, 0.3238.



This preview shows how white text looks on a background with the Yxy color 49.9521, 0.2986, 0.3238.

# 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

49.9521, 0.2986, 0.3238

### Protanopia

49.7424, 0.3106, 0.3215

### Deuteranopia

49.9980, 0.3186, 0.3120



## Tritanopia

50.1720, 0.2937, 0.3112

# Trichromacy



## Original Color

49.9521, 0.2986, 0.3238

## Protanomaly

49.5813, 0.3057, 0.3214

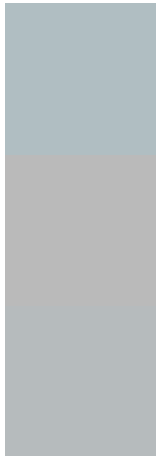
## Deuteranomaly

49.9755, 0.3116, 0.3166

## Tritanomaly

49.9124, 0.2950, 0.3149

# Monochromacy



## Original Color

49.9521, 0.2986, 0.3238

## Achromatopsia

49.1021, 0.3127, 0.3290

## Achromatomaly

49.1599, 0.3071, 0.3264

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.9521, 0.2986, 0.3238 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(176, 190, 194)` looks like.

```
.text, #text, p{  
    color:rgb(176, 190, 194)  
}
```

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(176, 190, 194) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 190, 194) }
```

## Border

The CSS property to change the border of an element to Yxy 49.9521, 0.2986, 0.3238 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(176, 190, 194) }
```

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

```
.border{ border-color:rgb(176, 190, 194) }
```

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

Here you see how a box with a 4 pixel `rgb(176, 190, 194)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 190, 194); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 190, 194);  
box-shadow:4px 4px 4px 4px rgb(176, 190,  
194) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.9521, 0.2986, 0.3238 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 190, 194) }
```

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

```
.background{ background-color: rgb(176,  
190, 194) }
```

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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