

# Converting Colors

$Y_{xy}(49.4188, 0.2918, 0.3180)$

Have a look what the booklet for  
Yxy(49.4188, 0.2918, 0.3180)  
contains.

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# Color

**Yxy(49.5621, 0.2919, 0.3186)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ABBEC6
RGB	171, 190, 198
RGB Percent	67%, 75%, 78%
CMY	0.3292, 0.2549, 0.2236
CMYK	0.14, 0.04, 0.00, 0.22
HSL	198°, 19%, 72%
HSV	198°, 14%, 78%
XYZ	45.4086, 49.5621, 60.5915
YIQ	185.2310, -13.8920, -1.5400

# Conversions

## Conversions Part 2

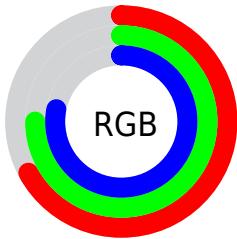
Format	Color
R <sub>Y</sub> B	171, 182, 198
Decimal	11255494
CIE Lab	75.80, -4.81, -6.23
CIE LCh	76, 7.874, 232.304
Yxy	49.5621, 0.2919, 0.3186
Android (android.graphics.Color)	4289445574 (0xFFABBE6)
YUV	185.2310, 6.2951, -12.4806
Hunter-Lab	70.4004, -8.0672, -1.7489

# Details

The Yxy color **49.5621, 0.2919, 0.3186** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **47.2077, 0.3360, 0.3392**, and the grayscale version is **48.6265, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.4624, 0.2957, 0.3199**, and **23.8269, 0.2868, 0.3166** is the 20% darker color. If you saturate the color by 10%, you get **45.0086, 0.2767, 0.3101**, and if you desaturate by 10%, it is **54.5555, 0.3072, 0.3264**.

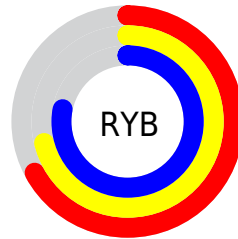
# Distribution



Red (67%)

Green (75%)

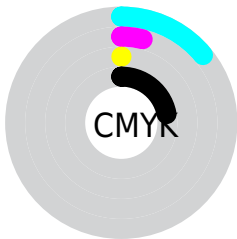
Blue (78%)



Red (67%)

Yellow (71%)

Blue (78%)

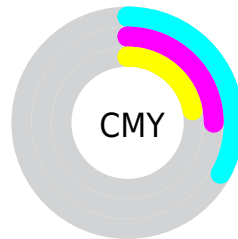


Cyan (14%)

Magenta (4%)

Yellow (0%)

Black (22%)



Cyan (33%)

Magenta (25%)

Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.5621, 0.2919, 0.3186 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 49.5621, 0.2919, 0.3186 by changing the saturation by 10% instead.



■ 49.5621, 0.2919,  
0.3186

■ 49.5621, 0.2919,  
0.3186

384.9510, 0.3021,  
0.3238

■ 35.0656, 0.2894,  
0.3173

■ 89.5257, 0.2956,  
0.3205

■ 23.7134, 0.2862,  
0.3156

115.7616, 0.2970,  
0.3212

■ 15.1212, 0.2820,  
0.3134

146.6794, 0.2982,  
0.3218

■ 8.9045, 0.2762,  
0.3102

182.6635, 0.2992,  
0.3223

■ 4.6789, 0.2678,  
0.3056

224.0984, 0.3001,  
0.3228

■ 2.0601, 0.2543,  
0.2978

271.3683, 0.3008,

■ 0.6421, 0.2161,

0.3232

0.2816

324.8577, 0.3015,  
0.3235

0.0000, 0.0000,  
0.0000

49.5621, 0.2919,  
0.3186

49.5621, 0.2919,  
0.3186

45.0086, 0.2767,  
0.3101

54.5555, 0.3072,  
0.3264

40.8729, 0.2619,  
0.3008

59.9976, 0.3224,  
0.3334

37.1399, 0.2478,  
0.2908

65.9048, 0.3372,  
0.3397

33.7912, 0.2349,  
0.2803

72.2904, 0.3516,  
0.3452

30.8066, 0.2233,  
0.2694

76.2005, 0.3540,  
0.3509

■ 28.1635, 0.2136,  
0.2582

■ 79.3293, 0.3527,  
0.3568

■ 25.8362, 0.2057,  
0.2469

■ 82.5676, 0.3515,  
0.3625

■ 23.7937, 0.1999,  
0.2358

■ 85.9165, 0.3502,  
0.3682

■ 22.6009, 0.1969,  
0.2287

■ 89.3770, 0.3490,  
0.3738

# Harmonies

## Analogous

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



49.5621, 0.2947, 0.3278



49.5621, 0.2919, 0.3186



49.5621, 0.2946, 0.3124

# Triad

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



49.5621, 0.2919, 0.3186



49.5621, 0.3232, 0.3207



49.5621, 0.3232, 0.3479

# Complementary

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



49.5621, 0.2919, 0.3186



47.2077, 0.3360, 0.3392

# 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.



49.5621, 0.3311, 0.3456



49.5621, 0.2919, 0.3186



49.5621, 0.3311, 0.3298

# Square

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



49.5621, 0.2919, 0.3186



49.5621, 0.3125, 0.3137



49.5621, 0.3340, 0.3389



49.5621, 0.3126, 0.3450



# Rectangle

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



49.5621, 0.2919, 0.3186



49.5621, 0.2991, 0.3107



49.5621, 0.3340, 0.3389



49.5621, 0.3263, 0.3477

# Sweetspot

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



49.5642, 0.2919, 0.3186



96.1994, 0.3065, 0.3260



52.2890, 0.3056, 0.3543



20.4408, 0.3054, 0.3255



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

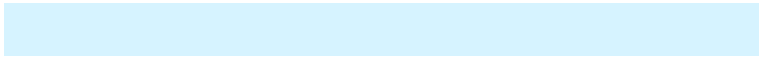


# Same Dimension

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



49.5642, 0.2919, 0.3186



85.5792, 0.2879, 0.3164



44.1420, 0.2914, 0.3012



11.5152, 0.2984, 0.3220



14.8547, 0.1973, 0.2302



0.8251, 0.2037, 0.2532



# Inverse Universe

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



44.8683, 0.3210, 0.3054



75.9186, 0.3228, 0.3007



52.7131, 0.3338, 0.3553



10.7609, 0.3182, 0.3129



9.0396, 0.4124, 0.2046

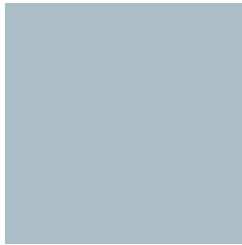


0.4403, 0.3890, 0.1917



# Previews

## White Background



This preview shows how the Yxy color 49.5621, 0.2919, 0.3186 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

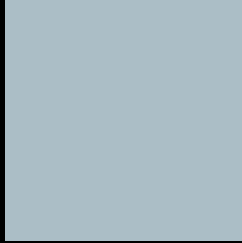
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.5621, 0.2919, 0.3186 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

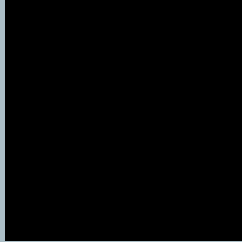
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

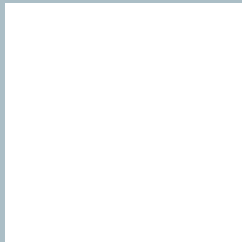
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.5621, 0.2919, 0.3186**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.5621, 0.2919, 0.3186.



This preview shows how white text looks on a background with the Yxy color 49.5621, 0.2919, 0.3186.

# 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

49.5621, 0.2919, 0.3186

### Protanopia

49.2028, 0.3067, 0.3164

### Deuteranopia

49.3600, 0.3130, 0.3059



## Tritanopia

49.5255, 0.2884, 0.3097

# Trichromacy



## Original Color

49.5621, 0.2919, 0.3186

## Protanomaly

49.3499, 0.3010, 0.3175

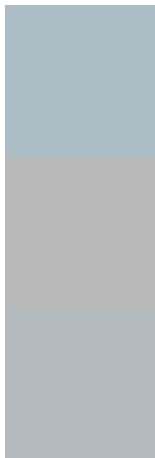
## Deuteranomaly

49.2233, 0.3053, 0.3103

## Tritanomaly

49.4301, 0.2898, 0.3123

# Monochromacy



## Original Color

49.5621, 0.2919, 0.3186

## Achromatopsia

48.5150, 0.3127, 0.3290

## Achromatomaly

48.9617, 0.3047, 0.3251

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.5621, 0.2919, 0.3186 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(171, 190, 198)` looks like.

```
.text, #text, p{  
    color:rgb(171, 190, 198)  
}
```

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(171, 190, 198) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 190, 198) }
```

## Border

The CSS property to change the border of an element to Yxy 49.5621, 0.2919, 0.3186 is called "border". The border property can be set on classes, ids or directly on the HTML element.

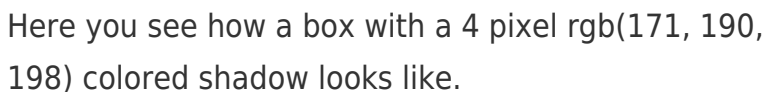
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(171, 190, 198) }
```

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

```
.border{ border-color:rgb(171, 190, 198) }
```

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



Here you see how a box with a 4 pixel `rgb(171, 190, 198)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(171, 190, 198); -webkit-box-shadow:4px 4px 4px 4px rgb(171, 190, 198); box-shadow:4px 4px 4px 4px rgb(171, 190, 198) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.5621, 0.2919, 0.3186 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 190, 198) }
```

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

```
.background{ background-color: rgb(171,  
190, 198) }
```

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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