

# Converting Colors

$Y_{xy}(46.7252, 0.2927, 0.3122)$

Have a look what the booklet for  
Yxy(46.7252, 0.2927, 0.3122)  
contains.

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# Color

**Yxy(46.9244, 0.2931, 0.3133)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ABB8C4
RGB	171, 184, 196
RGB Percent	67%, 72%, 77%
CMY	0.3293, 0.2784, 0.2315
CMYK	0.13, 0.06, 0.00, 0.23
HSL	209°, 17%, 72%
HSV	209°, 13%, 77%
XYZ	43.8990, 46.9244, 58.9513
YIQ	181.4810, -11.6000, 0.9760

# Conversions

## Conversions Part 2

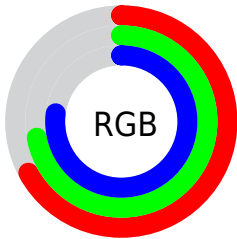
Format	Color
R <sub>Y</sub> B	171, 180, 196
Decimal	11253956
CIE Lab	74.14, -2.05, -7.59
CIE LCh	74, 7.863, 254.908
Yxy	46.9244, 0.2931, 0.3133
Android (android.graphics.Color)	4289444036 (0xFFABB8C4)
YUV	181.4810, 7.1579, -9.1918
Hunter-Lab	68.5014, -5.4861, -3.0731

# Details

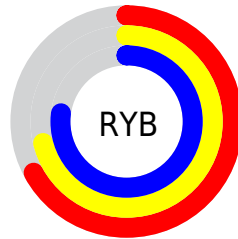
The Yxy color `46.9244, 0.2931, 0.3133` is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be `48.5354, 0.3336, 0.3442`, and the grayscale version is `46.4492, 0.3127, 0.3290`.

A 20% lighter version of the original color is `85.5808, 0.2961, 0.3157`, and `22.1075, 0.2883, 0.3093` is the 20% darker color. If you saturate the color by 10%, you get `41.1093, 0.2772, 0.2994`, and if you desaturate by 10%, it is `53.3293, 0.3086, 0.3258`.

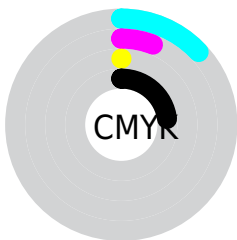
# Distribution



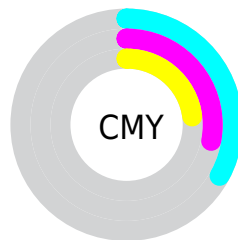
- Red (67%)
- Green (72%)
- Blue (77%)



- Red (67%)
- Yellow (71%)
- Blue (77%)



- Cyan (13%)
- Magenta (6%)
- Yellow (0%)
- Black (23%)



- Cyan (33%)
- Magenta (28%)
- Yellow (23%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.9244, 0.2931, 0.3133 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 46.9244, 0.2931, 0.3133 by changing the saturation by 10% instead.



■ 46.9244, 0.2931,  
0.3133

■ 46.9244, 0.2931,  
0.3133

374.5127, 0.3029,  
0.3212

■ 32.9759, 0.2907,  
0.3113

■ 85.6008, 0.2966,  
0.3162

■ 22.1080, 0.2876,  
0.3088

111.0974, 0.2980,  
0.3172

■ 13.9363, 0.2835,  
0.3054

141.2122, 0.2991,  
0.3181

■ 8.0763, 0.2778,  
0.3007

176.3296, 0.3001,  
0.3189

■ 4.1438, 0.2693,  
0.2937

216.8340, 0.3009,  
0.3196

■ 1.7543, 0.2556,  
0.2821

263.1097, 0.3016,

■ 0.4585, 0.2057,

0.3202

0.2444

315.5411, 0.3023,  
0.3207

0.0000, 0.0000,  
0.0000

46.9244, 0.2931,  
0.3133

46.9244, 0.2931,  
0.3133

41.1093, 0.2772,  
0.2994

53.3293, 0.3086,  
0.3258

35.8587, 0.2610,  
0.2842

60.3363, 0.3234,  
0.3370

31.1542, 0.2451,  
0.2676

67.9649, 0.3375,  
0.3469

26.9737, 0.2297,  
0.2501

76.2317, 0.3507,  
0.3556

23.2934, 0.2155,  
0.2317

82.3989, 0.3529,  
0.3645

■ 20.0872, 0.2028,  
0.2130

■ 87.8034, 0.3508,  
0.3735

■ 17.3255, 0.1921,  
0.1945

■ 93.4949, 0.3489,  
0.3823

■ 14.9741, 0.1838,  
0.1765

■ 96.7643, 0.3478,  
0.3870

■ 13.4809, 0.1789,  
0.1640

# Harmonies

## Analogous

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



46.9244, 0.2917, 0.3205



46.9244, 0.2931, 0.3133



46.9244, 0.2996, 0.3104

# Triad

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



46.9244, 0.2931, 0.3133



46.9244, 0.3298, 0.3274



46.9244, 0.3154, 0.3465

# Complementary

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



46.9244, 0.2931, 0.3133



48.5354, 0.3336, 0.3442

# 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.



46.9244, 0.3257, 0.3481



46.9244, 0.2931, 0.3133



46.9244, 0.3342, 0.3369

# Square

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



46.9244, 0.2931, 0.3133



46.9244, 0.3208, 0.3185



46.9244, 0.3327, 0.3445



46.9244, 0.3045, 0.3399



# Rectangle

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



46.9244, 0.2931, 0.3133



46.9244, 0.3061, 0.3111



46.9244, 0.3327, 0.3445



46.9244, 0.3191, 0.3476

# Sweetspot

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



46.9264, 0.2931, 0.3133



95.0344, 0.3066, 0.3242



51.5326, 0.3028, 0.3464



20.1457, 0.3054, 0.3233



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

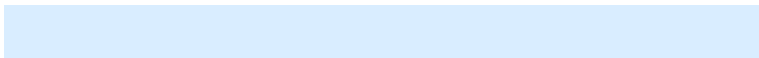


# Same Dimension

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



46.9264, 0.2931, 0.3133



82.3006, 0.2891, 0.3100



42.0923, 0.2927, 0.2970



10.5956, 0.2984, 0.3177



8.8380, 0.1795, 0.1663



0.5193, 0.1905, 0.2057



# Inverse Universe

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



44.3256, 0.3243, 0.3126



76.8510, 0.3269, 0.3093



53.7666, 0.3317, 0.3591



10.1635, 0.3209, 0.3171



8.1744, 0.4852, 0.2446

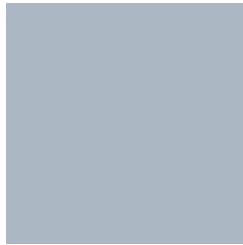


0.3671, 0.4389, 0.2192



# Previews

## White Background



This preview shows how the Yxy color 46.9244, 0.2931, 0.3133 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

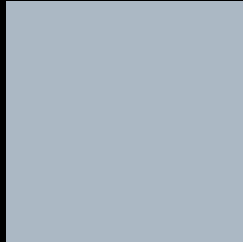
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.9244, 0.2931, 0.3133 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

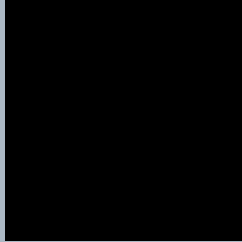
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

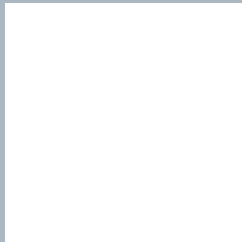
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.9244, 0.2931, 0.3133**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.9244, 0.2931, 0.3133.



This preview shows how white text looks on a background with the Yxy color 46.9244, 0.2931, 0.3133.

# 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

46.9244, 0.2931, 0.3133

### Protanopia

46.8879, 0.3034, 0.3123

### Deuteranopia

46.8130, 0.3105, 0.3041



## Tritanopia

47.0161, 0.2916, 0.3107

# Trichromacy



## Original Color

46.9244, 0.2931, 0.3133

## Protanomaly

46.8610, 0.2994, 0.3122

## Deuteranomaly

46.9880, 0.3036, 0.3074

## Tritanomaly

46.9701, 0.2923, 0.3120

# Monochromacy



## Original Color

46.9244, 0.2931, 0.3133

## Achromatopsia

46.2077, 0.3127, 0.3290

## Achromatomaly

46.3482, 0.3054, 0.3237

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.9244, 0.2931, 0.3133 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, 184, 196)` looks like.

```
.text, #text, p{  
    color:rgb(171, 184, 196)  
}
```

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, 184, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 184, 196) }
```

## Border

The CSS property to change the border of an element to Yxy 46.9244, 0.2931, 0.3133 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, 184, 196) }
```

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

```
.border{ border-color:rgb(171, 184, 196) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 184, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 184, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 184, 196);  
box-shadow:4px 4px 4px 4px rgb(171, 184,  
196) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.9244, 0.2931, 0.3133 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 184, 196) }
```

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

```
.background{ background-color: rgb(171,  
184, 196) }
```

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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