

# Converting Colors

$Yxy(42.0893, 0.2570, 0.2988)$

Have a look what the booklet for  
Yxy(42.0893, 0.2570, 0.2988)  
contains.

<b>Yxy(41.9487, 0.2571, 0.2978)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(41.9487, 0.2571, 0.2978)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80B5CB
RGB	128, 181, 203
RGB Percent	50%, 71%, 80%
CMY	0.4977, 0.2902, 0.2039
CMYK	0.37, 0.11, 0.00, 0.20
HSL	198°, 42%, 65%
HSV	198°, 37%, 80%
XYZ	36.2156, 41.9487, 62.6977
YIQ	167.6610, -38.6500, -4.3940

# Conversions

## Conversions Part 2

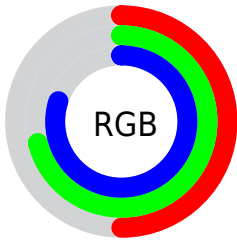
Format	Color
R <sub>Y</sub> B	128, 159, 203
Decimal	8435147
CIE Lab	70.84, -11.81, -16.67
CIE LCh	71, 20.431, 234.697
Yxy	41.9487, 0.2571, 0.2978
Android (android.graphics.Color)	4286625227 (0xFF80B5CB)
YUV	167.6610, 17.4221, -34.7827
Hunter-Lab	64.7678, -13.5335, -12.0575

# Details

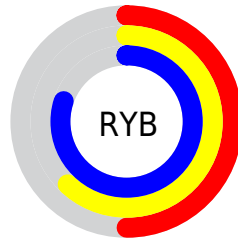
The Yxy color **41.9487, 0.2571, 0.2978** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **36.1078, 0.3910, 0.3578**, and the grayscale version is **38.9193, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.8557, 0.2695, 0.3092**, and **19.1041, 0.2416, 0.2876** is the 20% darker color. If you saturate the color by 10%, you get **38.1539, 0.2434, 0.2877**, and if you desaturate by 10%, it is **46.1658, 0.2717, 0.3072**.

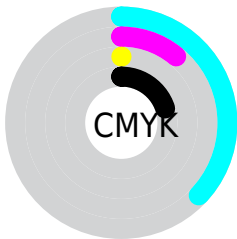
# Distribution



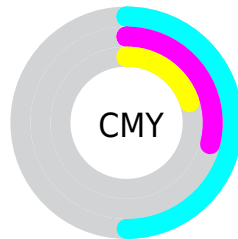
- Red (50%)
- Green (71%)
- Blue (80%)



- Red (50%)
- Yellow (62%)
- Blue (80%)



- Cyan (37%)
- Magenta (11%)
- Yellow (0%)
- Black (20%)



- Cyan (50%)
- Magenta (29%)
- Yellow (20%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.9487, 0.2571, 0.2978 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 41.9487, 0.2571, 0.2978 by changing the saturation by 10% instead.



■ 41.9487, 0.2571,  
0.2978

■ 41.9487, 0.2571,  
0.2978

■ 354.2702, 0.2848,  
0.3140

■ 29.0611, 0.2502,  
0.2936

■ 78.1220, 0.2671,  
0.3038

■ 19.1271, 0.2415,  
0.2881

■ 102.1765, 0.2709,  
0.3061

■ 11.7621, 0.2299,  
0.2806

■ 130.7221, 0.2741,  
0.3079

■ 6.5819, 0.2141,  
0.2699

■ 164.1431, 0.2769,  
0.3095

■ 3.2020, 0.1911,  
0.2535

■ 202.8241, 0.2792,  
0.3109

■ 1.2381, 0.1554,  
0.2258

■ 247.1493, 0.2813,

■ 0.0925, 0.0000,

0.3121

0.0665

297.5033, 0.2832,  
0.3131

0.0000, 0.0000,  
0.0000

41.9487, 0.2571,  
0.2978

41.9487, 0.2571,  
0.2978

38.1539, 0.2434,  
0.2877

46.1658, 0.2717,  
0.3072

34.7563, 0.2309,  
0.2772

50.8188, 0.2868,  
0.3160

31.7353, 0.2199,  
0.2662

55.9267, 0.3021,  
0.3239

29.0660, 0.2108,  
0.2551

61.5058, 0.3174,  
0.3311

26.7195, 0.2037,  
0.2440

67.5712, 0.3324,  
0.3376

■ 24.6576, 0.1985,  
0.2330

■ 74.1377, 0.3470,  
0.3433

■ 24.0574, 0.1971,  
0.2296

■ 78.2228, 0.3497,  
0.3491

■ 81.4641, 0.3485,  
0.3550

■ 84.8190, 0.3474,  
0.3609

# Harmonies

## Analogous

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



41.9487, 0.2631, 0.3224



41.9487, 0.2571, 0.2978



41.9487, 0.2651, 0.2831

# Triad

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



41.9487, 0.2571, 0.2978



41.9487, 0.3433, 0.3082



41.9487, 0.3387, 0.3818

# Complementary

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



41.9487, 0.2571, 0.2978



36.1078, 0.3910, 0.3578

# 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.



41.9487, 0.3617, 0.3749



41.9487, 0.2571, 0.2978



41.9487, 0.3649, 0.3320

# Square

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



41.9487, 0.2571, 0.2978



41.9487, 0.3139, 0.2898



41.9487, 0.3716, 0.3562



41.9487, 0.3093, 0.3731



# Rectangle

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



41.9487, 0.2571, 0.2978



41.9487, 0.2775, 0.2801



41.9487, 0.3716, 0.3562



41.9487, 0.3474, 0.3812

# Sweetspot

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



41.9503, 0.2571, 0.2978



89.9137, 0.2956, 0.3207



49.4951, 0.2941, 0.4075



18.9936, 0.2935, 0.3196



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

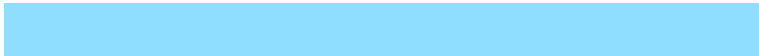


# Same Dimension

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



41.9503, 0.2571, 0.2978



65.2921, 0.2465, 0.2901



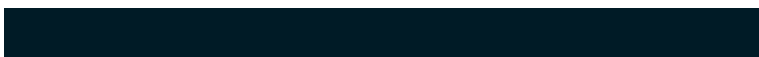
28.9509, 0.2493, 0.2429



12.1483, 0.2983, 0.3220



15.4716, 0.1975, 0.2311



0.9257, 0.2035, 0.2525



# Inverse Universe

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



31.4940, 0.3396, 0.2628



46.1196, 0.3472, 0.2493



49.7071, 0.3743, 0.4023



11.3453, 0.3182, 0.3128



9.3649, 0.4115, 0.2040

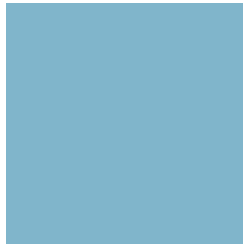


0.4960, 0.3897, 0.1921



# Previews

## White Background



This preview shows how the Yxy color 41.9487, 0.2571, 0.2978 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

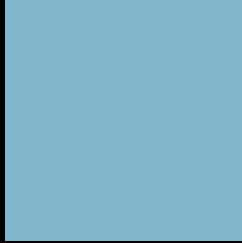
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 41.9487, 0.2571, 0.2978 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

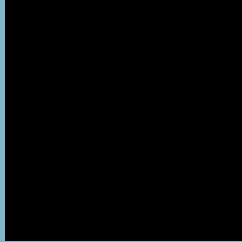
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 41.9487, 0.2571, 0.2978**

## **Background**



This preview shows how black text looks on a background with the Yxy color 41.9487, 0.2571, 0.2978.



This preview shows how white text looks on a background with the Yxy color 41.9487, 0.2571, 0.2978.

# 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

41.9487, 0.2571, 0.2978

### Protanopia

41.5921, 0.2902, 0.2944

### Deuteranopia

41.7164, 0.2867, 0.2810



## Tritanopia

41.9227, 0.2596, 0.3074

# Trichromacy



**Original Color**

41.9487, 0.2571, 0.2978

**Protanomaly**

41.6535, 0.2771, 0.2962

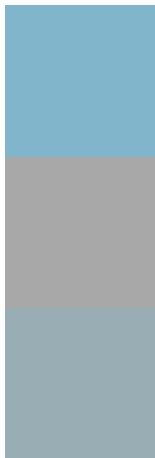
**Deuteranomaly**

41.4630, 0.2750, 0.2860

**Tritanomaly**

42.0914, 0.2591, 0.3047

# Monochromacy



**Original Color**

41.9487, 0.2571, 0.2978

**Achromatopsia**

39.1572, 0.3127, 0.3290

**Achromatomaly**

39.9956, 0.2892, 0.3176

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.9487, 0.2571, 0.2978 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(128, 181, 203)` looks like.

```
.text, #text, p{  
    color:rgb(128, 181, 203)  
}
```

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(128, 181, 203) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 181, 203) }
```

## Border

The CSS property to change the border of an element to Yxy 41.9487, 0.2571, 0.2978 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(128, 181, 203) }
```

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

```
.border{ border-color:rgb(128, 181, 203) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 181, 203)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 181, 203); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 181, 203);  
box-shadow:4px 4px 4px 4px rgb(128, 181,  
203) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.9487, 0.2571, 0.2978 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 181, 203) }
```

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

```
.background{ background-color: rgb(128,  
181, 203) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor