

# Converting Colors

$Y_{xy}(41.7271, 0.2899, 0.3421)$

Have a look what the booklet for  
Yxy(41.7271, 0.2899, 0.3421)  
contains.

<b>Yxy(41.5121, 0.2898, 0.3420)</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(41.5121, 0.2898, 0.3420)**

# Conversions

## Conversions Part 1

Format	Color
Hex	90B4AB
RGB	144, 180, 171
RGB Percent	56%, 71%, 67%
CMY	0.4352, 0.2941, 0.3294
CMYK	0.20, 0.00, 0.05, 0.29
HSL	165°, 19%, 64%
HSV	165°, 20%, 71%
XYZ	35.1760, 41.5121, 44.6923
YIQ	168.2100, -18.5670, -10.4310

# Conversions

## Conversions Part 2

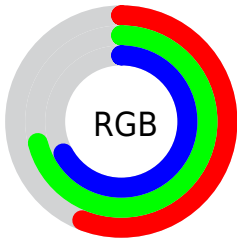
<b>Format</b>	<b>Color</b>
<b>RYB</b>	144, 165, 180
Decimal	9483435
CIELab	70.53, -14.01, 0.56
CIELCh	71, 14.017, 177.709
Yxy	41.5121, 0.2898, 0.3420
Android (android.graphics.Color)	4287673515 (0xFF90B4AB)
YUV	168.2100, 1.3755, -21.2322
Hunter-Lab	64.4299, -15.2987, 3.9740

# Details

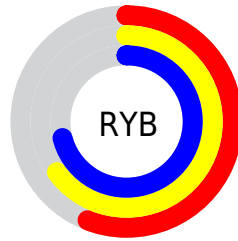
The Yxy color **41.5121, 0.2898, 0.3420** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **31.9541, 0.3421, 0.3164**, and the grayscale version is **39.2687, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.4877, 0.2941, 0.3400**, and **18.8378, 0.2829, 0.3454** is the 20% darker color. If you saturate the color by 10%, you get **39.8514, 0.2793, 0.3494**, and if you desaturate by 10%, it is **43.4405, 0.3010, 0.3352**.

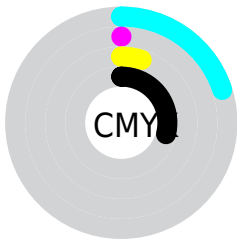
# Distribution



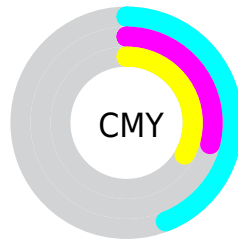
- Red (56%)
- Green (71%)
- Blue (67%)



- Red (56%)
- Yellow (65%)
- Blue (71%)



- Cyan (20%)
- Magenta (0%)
- Yellow (5%)
- Black (29%)




- Cyan (44%)
- Magenta (29%)
- Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.5121, 0.2898, 0.3420 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 41.5121, 0.2898, 0.3420 by changing the saturation by 10% instead.




 41.5121, 0.2898,  
0.3420

 41.5121, 0.2898,  
0.3420


352.4564, 0.3015,  
0.3354

 28.7194, 0.2868,  
0.3437


 77.4607, 0.2941,  
0.3396

 18.8687, 0.2829,  
0.3459


 101.3854, 0.2957,  
0.3386

 11.5754, 0.2777,  
0.3489


129.7896, 0.2970,  
0.3379

 6.4553, 0.2702,  
0.3532

163.0576, 0.2982,  
0.3372

 3.1238, 0.2587,  
0.3599

201.5739, 0.2992,  
0.3367

 1.1967, 0.2381,  
0.3718

245.7229, 0.3000,

 0.0590, 0.0000,

0.3362

0.7017

295.8889, 0.3008,  
0.3358

0.0000, 0.0000,  
0.0000

41.5121, 0.2898,  
0.3420

41.5121, 0.2898,  
0.3420

39.8514, 0.2793,  
0.3494

43.4405, 0.3010,  
0.3352

38.4409, 0.2699,  
0.3574

45.6429, 0.3127,  
0.3290

37.2692, 0.2618,  
0.3659

48.1319, 0.3247,  
0.3234

36.3217, 0.2553,  
0.3747

50.9175, 0.3367,  
0.3185

35.5822, 0.2506,  
0.3839

54.0095, 0.3486,  
0.3141

■ 35.0326, 0.2478,  
0.3931

■ 57.4172, 0.3602,  
0.3103

■ 34.6512, 0.2470,  
0.4023

■ 58.1896, 0.3588,  
0.3058

■ 34.3932, 0.2476,  
0.4115

■ 58.4064, 0.3549,  
0.3012

■ 34.3930, 0.2476,  
0.4115

■ 58.6294, 0.3511,  
0.2967

# Harmonies

## Analogous

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



41.5121, 0.3086, 0.3577



41.5121, 0.2898, 0.3420



41.5121, 0.2773, 0.3229

# Triad

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



41.5121, 0.2898, 0.3420



41.5121, 0.2958, 0.2954



41.5121, 0.3530, 0.3499

# Complementary

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



41.5121, 0.2898, 0.3420



31.9541, 0.3421, 0.3164

# 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.



41.5121, 0.3494, 0.3332



41.5121, 0.2898, 0.3420



41.5121, 0.3159, 0.3026

# Square

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



41.5121, 0.2898, 0.3420



41.5121, 0.2807, 0.2966



41.5121, 0.3357, 0.3162



41.5121, 0.3453, 0.3617



# Rectangle

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



41.5121, 0.2898, 0.3420



41.5121, 0.2740, 0.3113



41.5121, 0.3357, 0.3162



41.5121, 0.3530, 0.3446

# Sweetspot

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



41.5138, 0.2898, 0.3420



80.2597, 0.3055, 0.3327



41.4299, 0.3179, 0.3819



17.2930, 0.3048, 0.3331



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290



# Same Dimension

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



41.5138, 0.2898, 0.3420



73.8838, 0.2851, 0.3452



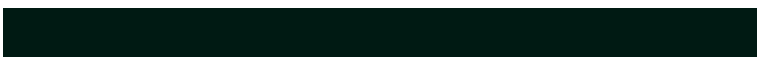
38.3530, 0.2825, 0.3158



9.5946, 0.3018, 0.3347



24.0154, 0.2473, 0.4104



0.7643, 0.2403, 0.3849



# Inverse Universe

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



31.9541, 0.3421, 0.3164



53.3745, 0.3504, 0.3135



34.5033, 0.3492, 0.3418



8.5389, 0.3249, 0.3233



6.9136, 0.5896, 0.3022



0.2270, 0.5103, 0.2585



# Previews

## White Background



This preview shows how the Yxy color 41.5121, 0.2898, 0.3420 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

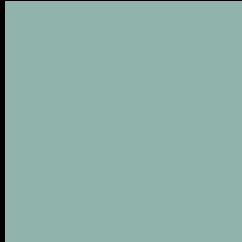
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 41.5121, 0.2898, 0.3420 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

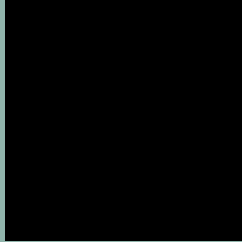
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

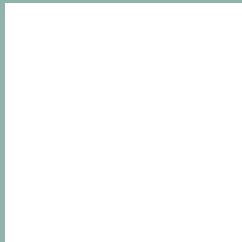
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 41.5121, 0.2898, 0.3420**

## **Background**



This preview shows how black text looks on a background with the Yxy color 41.5121, 0.2898, 0.3420.



This preview shows how white text looks on a background with the Yxy color 41.5121, 0.2898, 0.3420.

# 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

41.5121, 0.2898, 0.3420

### Protanopia

41.1091, 0.3215, 0.3359

### Deuteranopia

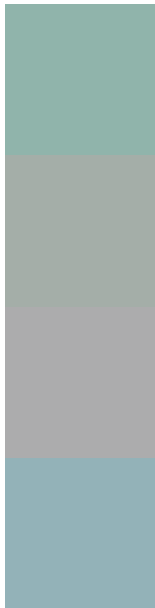
41.3848, 0.3261, 0.3198



## Tritanopia

41.5018, 0.2783, 0.3093

# Trichromacy



## Original Color

41.5121, 0.2898, 0.3420

## Protanomaly

40.9918, 0.3088, 0.3374

## Deuteranomaly

41.2928, 0.3119, 0.3276

## Tritanomaly

41.5045, 0.2826, 0.3204

# Monochromacy



## Original Color

41.5121, 0.2898, 0.3420

## Achromatopsia

39.1572, 0.3127, 0.3290

## Achromatomaly

39.7405, 0.3037, 0.3333

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.5121, 0.2898, 0.3420 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(144, 180, 171)` looks like.

```
.text, #text, p{  
    color:rgb(144, 180, 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(144, 180, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(144, 180, 171) }
```

## Border

The CSS property to change the border of an element to Yxy 41.5121, 0.2898, 0.3420 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(144, 180, 171) }
```

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

```
.border{ border-color:rgb(144, 180, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(144, 180, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(144, 180, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(144, 180, 171);  
box-shadow:4px 4px 4px 4px rgb(144, 180,  
171) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.5121, 0.2898, 0.3420 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(144, 180, 171) }
```

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

```
.background{ background-color: rgb(144,  
180, 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](#).

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