

# Converting Colors

$Y_{xy}(42.5109, 0.2858, 0.3339)$

Have a look what the booklet for  
Yxy(42.5109, 0.2858, 0.3339)  
contains.

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# Color

**Yxy(42.6900, 0.2857, 0.3346)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	91B6B2
RGB	145, 182, 178
RGB Percent	57%, 71%, 70%
CMY	0.4311, 0.2863, 0.3019
CMYK	0.20, 0.00, 0.02, 0.29
HSL	174°, 20%, 64%
HSV	174°, 20%, 71%
XYZ	36.4511, 42.6900, 48.4441
YIQ	170.4810, -20.7680, -9.0880

# Conversions

## Conversions Part 2

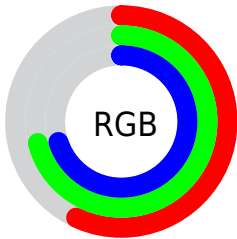
<b>Format</b>	<b>Color</b>
<b>RYB</b>	145, 165, 182
Decimal	9549490
CIELab	71.34, -13.21, -2.09
CIELCh	71, 13.379, 188.986
Yxy	42.6900, 0.2857, 0.3346
Android (android.graphics.Color)	4287739570 (0xFF91B6B2)
YUV	170.4810, 3.7069, -22.3468
Hunter-Lab	65.3376, -14.7577, 1.7762

# Details

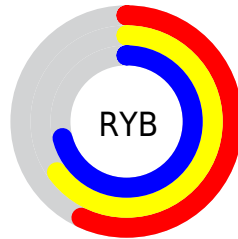
The Yxy color **42.6900, 0.2857, 0.3346** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **32.3881, 0.3482, 0.3235**, and the grayscale version is **40.4475, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.2317, 0.2902, 0.3333**, and **19.5609, 0.2785, 0.3369** is the 20% darker color. If you saturate the color by 10%, you get **41.0896, 0.2737, 0.3377**, and if you desaturate by 10%, it is **44.5599, 0.2987, 0.3317**.

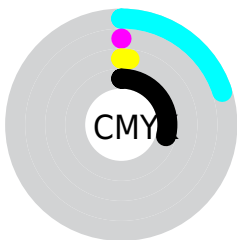
# Distribution



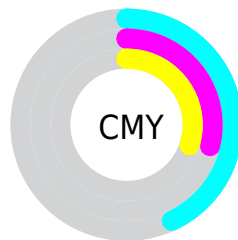
- Red (57%)
- Green (71%)
- Blue (70%)



- Red (57%)
- Yellow (65%)
- Blue (71%)



- Cyan (20%)
- Magenta (0%)
- Yellow (2%)
- Black (29%)




- Cyan (43%)
- Magenta (29%)
- Yellow (30%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.6900, 0.2857, 0.3346 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 42.6900, 0.2857, 0.3346 by changing the saturation by 10% instead.





 42.6900, 0.2857,  
0.3346


 42.6900, 0.2857,  
0.3346


357.3353, 0.2993,  
0.3319

 29.6420, 0.2823,  
0.3353


 79.2428, 0.2907,  
0.3336

 19.5670, 0.2778,  
0.3361


 103.5164, 0.2926,  
0.3332

 12.0807, 0.2718,  
0.3372


132.3007, 0.2941,  
0.3329

 6.7986, 0.2634,  
0.3387

165.9800, 0.2955,  
0.3327

 3.3365, 0.2506,  
0.3409

204.9387, 0.2966,  
0.3324

 1.3098, 0.2290,  
0.3442

249.5612, 0.2977,

 0.1488, 0.0000,

0.3322

300.2320, 0.2985,  
0.3320

0.3257

0.0000, 0.0000,  
0.0000

42.6900, 0.2857,  
0.3346

42.6900, 0.2857,  
0.3346

41.0896, 0.2737,  
0.3377

44.5599, 0.2987,  
0.3317

39.7408, 0.2629,  
0.3410

46.7058, 0.3123,  
0.3291

38.6319, 0.2537,  
0.3445

49.1405, 0.3264,  
0.3267

37.7479, 0.2461,  
0.3481

51.8744, 0.3406,  
0.3246

37.0722, 0.2404,  
0.3518

54.9174, 0.3549,  
0.3227

■ 36.5860, 0.2366,  
0.3555

■ 58.2790, 0.3689,  
0.3210

■ 36.2671, 0.2347,  
0.3592

■ 58.5043, 0.3678,  
0.3190

■ 36.0731, 0.2341,  
0.3627

■ 58.5916, 0.3661,  
0.3170

■ 58.6800, 0.3643,  
0.3149

# Harmonies

## Analogous

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



42.6900, 0.3017, 0.3512



42.6900, 0.2857, 0.3346



42.6900, 0.2769, 0.3169

# Triad

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



42.6900, 0.2857, 0.3346



42.6900, 0.3035, 0.2989



42.6900, 0.3492, 0.3537

# Complementary

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



42.6900, 0.2857, 0.3346



32.3881, 0.3482, 0.3235

# 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.



42.6900, 0.3499, 0.3392



42.6900, 0.2857, 0.3346



42.6900, 0.3231, 0.3082

# Square

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



42.6900, 0.2857, 0.3346



42.6900, 0.2870, 0.2969



42.6900, 0.3402, 0.3228



42.6900, 0.3385, 0.3621



# Rectangle

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



42.6900, 0.2857, 0.3346



42.6900, 0.2762, 0.3071



42.6900, 0.3402, 0.3228



42.6900, 0.3507, 0.3494

# Sweetspot

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



42.6918, 0.2857, 0.3346



82.3646, 0.3043, 0.3306



41.9224, 0.3138, 0.3835



18.1370, 0.3034, 0.3308



93.3107, 0.3127, 0.3290



18.7317, 0.3127, 0.3290



# Same Dimension

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



42.6918, 0.2857, 0.3346



76.1574, 0.2806, 0.3359



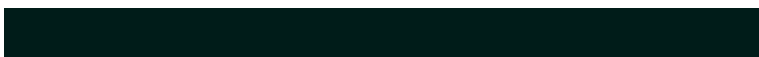
37.3482, 0.2816, 0.3084



10.1935, 0.2999, 0.3315



25.4845, 0.2340, 0.3623



0.9032, 0.2313, 0.3528



# Inverse Universe

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



32.3881, 0.3482, 0.3235



54.3280, 0.3575, 0.3223



36.8632, 0.3486, 0.3488



9.0275, 0.3271, 0.3266



7.0628, 0.6253, 0.3218



0.2542, 0.5773, 0.2954



# Previews

## White Background



This preview shows how the Yxy color 42.6900, 0.2857, 0.3346 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

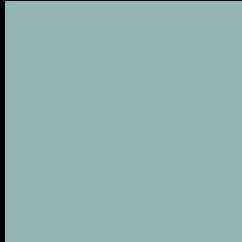
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.6900, 0.2857, 0.3346 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

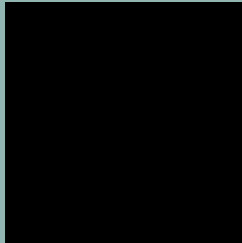
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

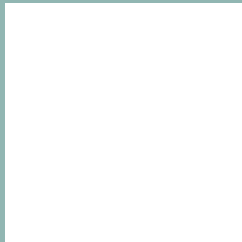
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.6900, 0.2857, 0.3346**

## Background



This preview shows how black text looks on a background with the Yxy color 42.6900, 0.2857, 0.3346.

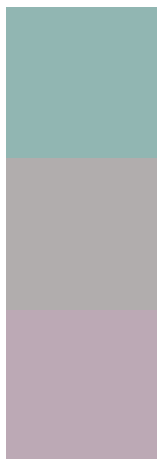


This preview shows how white text looks on a background with the Yxy color 42.6900, 0.2857, 0.3346.

# 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

42.6900, 0.2857, 0.3346

### Protanopia

42.2514, 0.3163, 0.3290

### Deuteranopia

42.4035, 0.3198, 0.3134



## Tritanopia

42.8335, 0.2765, 0.3095

# Trichromacy



## Original Color

42.6900, 0.2857, 0.3346

## Protanomaly

42.1451, 0.3040, 0.3304

## Deuteranomaly

42.3380, 0.3061, 0.3209

## Tritanomaly

42.8816, 0.2800, 0.3191

# Monochromacy



## Original Color

42.6900, 0.2857, 0.3346

## Achromatopsia

40.1978, 0.3127, 0.3290

## Achromatomaly

40.8663, 0.3022, 0.3304

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.6900, 0.2857, 0.3346 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(145, 182, 178)` looks like.

```
.text, #text, p{  
    color:rgb(145, 182, 178)  
}
```

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(145, 182, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(145, 182, 178) }
```

## Border

The CSS property to change the border of an element to Yxy 42.6900, 0.2857, 0.3346 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(145, 182, 178) }
```

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

```
.border{ border-color:rgb(145, 182, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(145, 182, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(145, 182, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(145, 182, 178);  
box-shadow:4px 4px 4px 4px rgb(145, 182,  
178) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.6900, 0.2857, 0.3346 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(145, 182, 178) }
```

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

```
.background{ background-color: rgb(145,  
182, 178) }
```

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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