

# Converting Colors

$Y_{xy}(46.2009, 0.2871, 0.3493)$

Have a look what the booklet for  
Yxy(46.2009, 0.2871, 0.3493)  
contains.

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# Color

**Yxy(46.3255, 0.2870, 0.3501)**

# Conversions

## Conversions Part 1

Format	Color
Hex	90BF80
RGB	144, 191, 176
RGB Percent	56%, 75%, 69%
CMY	0.4351, 0.2510, 0.3098
CMYK	0.25, 0.00, 0.08, 0.25
HSL	161°, 27%, 66%
HSV	161°, 25%, 75%
XYZ	37.9761, 46.3255, 48.0192
YIQ	175.2370, -23.1970, -14.6290

# Conversions

## Conversions Part 2

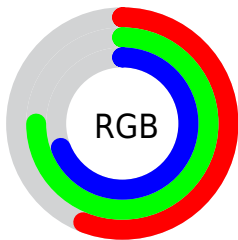
<b>Format</b>	<b>Color</b>
<b>RYB</b>	144, 172, 191
Decimal	9486256
CIELab	73.76, -18.62, 2.52
CIElCh	74, 18.785, 172.300
Yxy	46.3255, 0.2870, 0.3501
Android (android.graphics.Color)	4287676336 (0xFF90BFB0)
YUV	175.2370, 0.3762, -27.3948
Hunter-Lab	68.0628, -19.5148, 5.8141

# Details

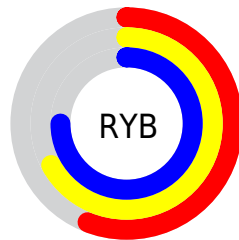
The Yxy color **46.3255, 0.2870, 0.3501** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **33.5420, 0.3475, 0.3089**, and the grayscale version is **43.0120, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.4898, 0.2916, 0.3452**, and **21.6219, 0.2788, 0.3547** is the 20% darker color. If you saturate the color by 10%, you get **44.5139, 0.2777, 0.3601**, and if you desaturate by 10%, it is **48.4427, 0.2971, 0.3409**.

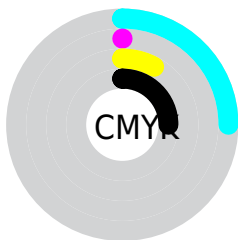
# Distribution



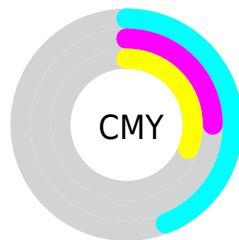
- Red (56%)
- Green (75%)
- Blue (69%)



- Red (56%)
- Yellow (67%)
- Blue (75%)



- Cyan (25%)
- Magenta (0%)
- Yellow (8%)
- Black (25%)



- Cyan (44%)
- Magenta (25%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.3255, 0.2870, 0.3501 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 46.3255, 0.2870, 0.3501 by changing the saturation by 10% instead.



■ 46.3255, 0.2870,  
0.3501

■ 46.3255, 0.2870,  
0.3501

372.1157, 0.2999,  
0.3394

■ 32.5028, 0.2838,  
0.3528

■ 84.7059, 0.2917,  
0.3462

■ 21.7458, 0.2796,  
0.3563

■ 110.0324, 0.2935,  
0.3447

■ 13.6702, 0.2740,  
0.3610

139.9622, 0.2950,  
0.3435

■ 7.8917, 0.2662,  
0.3677

174.8798, 0.2962,  
0.3425

■ 4.0257, 0.2544,  
0.3779

215.1696, 0.2973,  
0.3415

■ 1.6880, 0.2347,  
0.3952

261.2159, 0.2983,

■ 0.4158, 0.0000,

0.3407

0.6004

313.4031, 0.2992,  
0.3401

0.0000, 0.0000,  
0.0000

46.3255, 0.2870,  
0.3501

46.3255, 0.2870,  
0.3501

44.5139, 0.2777,  
0.3601

48.4427, 0.2971,  
0.3409

42.9874, 0.2695,  
0.3709

50.8736, 0.3077,  
0.3325

41.7320, 0.2627,  
0.3822

53.6329, 0.3187,  
0.3250

40.7298, 0.2576,  
0.3941

56.7328, 0.3297,  
0.3183

39.9612, 0.2544,  
0.4062

60.1848, 0.3406,  
0.3124

■ 39.4032, 0.2531,  
0.4184

■ 63.3016, 0.3483,  
0.3069

■ 39.0281, 0.2538,  
0.4304

■ 63.6162, 0.3434,  
0.3008

■ 38.8711, 0.2547,  
0.4369

■ 63.9426, 0.3385,  
0.2948

■ 64.2809, 0.3337,  
0.2888

# Harmonies

## Analogous

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



46.3255, 0.3120, 0.3691



46.3255, 0.2870, 0.3501



46.3255, 0.2693, 0.3253

# Triad

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



46.3255, 0.2870, 0.3501



46.3255, 0.2867, 0.2855



46.3255, 0.3651, 0.3519

# Complementary

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



46.3255, 0.2870, 0.3501



33.5420, 0.3475, 0.3089

# 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.



46.3255, 0.3579, 0.3301



46.3255, 0.2870, 0.3501



46.3255, 0.3117, 0.2929

# Square

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



46.3255, 0.2870, 0.3501



46.3255, 0.2691, 0.2888



46.3255, 0.3381, 0.3089



46.3255, 0.3576, 0.3689



# Rectangle

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



46.3255, 0.2870, 0.3501



46.3255, 0.2637, 0.3096



46.3255, 0.3381, 0.3089



46.3255, 0.3644, 0.3449

# Sweetspot

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



46.3274, 0.2870, 0.3501



89.9649, 0.3050, 0.3346



46.7162, 0.3223, 0.3951



19.6955, 0.3044, 0.3351



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

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



46.3274, 0.2870, 0.3501



81.3281, 0.2823, 0.3549



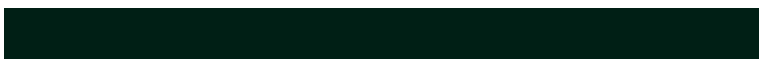
43.6321, 0.2761, 0.3180



10.7563, 0.3026, 0.3364



25.5629, 0.2542, 0.4353



1.0127, 0.2463, 0.4066



# Inverse Universe

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



33.5420, 0.3475, 0.3089



54.8401, 0.3567, 0.3047



35.5066, 0.3610, 0.3398



9.5852, 0.3240, 0.3217



7.5135, 0.5664, 0.2894



0.3065, 0.4969, 0.2511



# Previews

## White Background



This preview shows how the Yxy color 46.3255, 0.2870, 0.3501 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

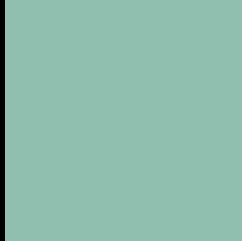
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.3255, 0.2870, 0.3501 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 46.3255, 0.2870, 0.3501**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.3255, 0.2870, 0.3501.

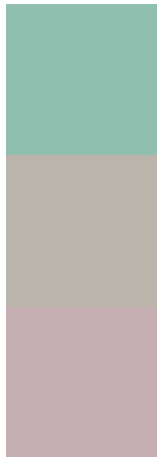


This preview shows how white text looks on a background with the Yxy color 46.3255, 0.2870, 0.3501.

# 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

46.3255, 0.2870, 0.3501

### Protanopia

45.9839, 0.3261, 0.3421

### Deuteranopia

45.9204, 0.3299, 0.3240



## Tritanopia

46.1945, 0.2728, 0.3087

# Trichromacy



## Original Color

46.3255, 0.2870, 0.3501

## Protanomaly

45.9175, 0.3111, 0.3452

## Deuteranomaly

45.7271, 0.3125, 0.3330

## Tritanomaly

46.0197, 0.2774, 0.3220

# Monochromacy



## Original Color

46.3255, 0.2870, 0.3501

## Achromatopsia

42.8690, 0.3127, 0.3290

## Achromatomaly

44.0354, 0.3030, 0.3372

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.3255, 0.2870, 0.3501 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, 191, 176)` looks like.

```
.text, #text, p{  
    color:rgb(144, 191, 176)  
}
```

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, 191, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(144, 191, 176) }
```

## Border

The CSS property to change the border of an element to Yxy 46.3255, 0.2870, 0.3501 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, 191, 176) }
```

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

```
.border{ border-color:rgb(144, 191, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(144, 191, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(144, 191, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(144, 191, 176);  
box-shadow:4px 4px 4px 4px rgb(144, 191,  
176) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.3255, 0.2870, 0.3501 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(144, 191, 176) }
```

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

```
.background{ background-color: rgb(144,  
191, 176) }
```

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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