

# Converting Colors

$Y_{xy}(42.7294, 0.2832, 0.3450)$

Have a look what the booklet for  
Yxy(42.7294, 0.2832, 0.3450)  
contains.

<b>Yxy(42.6165, 0.2833, 0.3450)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(42.6165, 0.2833, 0.3450)**

# Conversions

## Conversions Part 1

Format	Color
Hex	89B8AD
RGB	137, 184, 173
RGB Percent	54%, 72%, 68%
CMY	0.4629, 0.2784, 0.3216
CMYK	0.26, 0.00, 0.06, 0.28
HSL	166°, 25%, 63%
HSV	166°, 26%, 72%
XYZ	34.9949, 42.6165, 45.9146
YIQ	168.6930, -24.4810, -13.3850

# Conversions

## Conversions Part 2

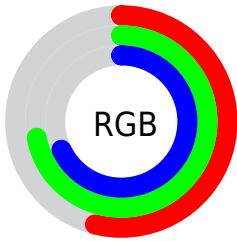
Format	Color
<b>RYB</b>	137, 164, 184
Decimal	9025709
CIELab	71.29, -17.90, 0.53
CIELCh	71, 17.910, 178.308
Yxy	42.6165, 0.2833, 0.3450
Android (android.graphics.Color)	4287215789 (0xFF89B8AD)
YUV	168.6930, 2.1234, -27.7948
Hunter-Lab	65.2813, -18.5549, 3.9962

# Details

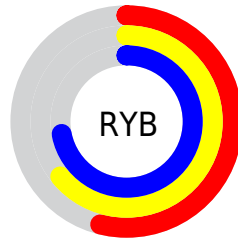
The Yxy color **42.6165, 0.2833, 0.3450** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **30.2103, 0.3536, 0.3137**, and the grayscale version is **39.5123, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.9980, 0.2888, 0.3423**, and **19.5915, 0.2748, 0.3495** is the 20% darker color. If you saturate the color by 10%, you get **41.0299, 0.2732, 0.3523**, and if you desaturate by 10%, it is **44.4772, 0.2943, 0.3383**.

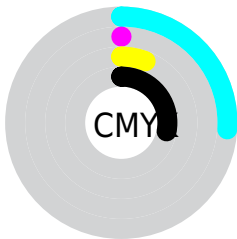
# Distribution



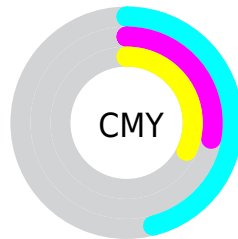
- Red (54%)
- Green (72%)
- Blue (68%)



- Red (54%)
- Yellow (64%)
- Blue (72%)



- Cyan (26%)
- Magenta (0%)
- Yellow (6%)
- Black (28%)




- Cyan (46%)
- Magenta (28%)
- Yellow (32%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.6165, 0.2833, 0.3450 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 42.6165, 0.2833, 0.3450 by changing the saturation by 10% instead.





 42.6165, 0.2833,  
0.3450


 42.6165, 0.2833,  
0.3450


357.0322, 0.2982,  
0.3369

 29.5843, 0.2795,  
0.3471

 79.1318, 0.2888,  
0.3420

 19.5233, 0.2746,  
0.3498


 103.3838, 0.2908,  
0.3409

 12.0490, 0.2680,  
0.3534


 132.1444, 0.2925,  
0.3400

 6.7771, 0.2586,  
0.3585

165.7982, 0.2940,  
0.3392

 3.3231, 0.2444,  
0.3664

204.7295, 0.2953,  
0.3385

 1.3026, 0.2194,  
0.3803

249.3226, 0.2964,

 0.1432, 0.0000,

0.3379

0.5462

299.9621, 0.2973,  
0.3374

0.0000, 0.0000,  
0.0000

42.6165, 0.2833,  
0.3450

42.6165, 0.2833,  
0.3450

41.0299, 0.2732,  
0.3523

44.4772, 0.2943,  
0.3383

39.6986, 0.2643,  
0.3600

46.6192, 0.3060,  
0.3322

38.6097, 0.2570,  
0.3681

49.0560, 0.3181,  
0.3266

37.7469, 0.2513,  
0.3765

51.7989, 0.3304,  
0.3216

37.0921, 0.2476,  
0.3851

54.8581, 0.3426,  
0.3172

■ 36.6242, 0.2458,  
0.3937

■ 58.2439, 0.3547,  
0.3134

■ 36.3169, 0.2458,  
0.4023

■ 59.8650, 0.3574,  
0.3093

■ 36.2070, 0.2461,  
0.4061

■ 60.0734, 0.3538,  
0.3049

■ 60.2877, 0.3501,  
0.3005

# Harmonies

## Analogous

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



42.6165, 0.3068, 0.3654



42.6165, 0.2833, 0.3450



42.6165, 0.2680, 0.3205

# Triad

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



42.6165, 0.2833, 0.3450



42.6165, 0.2917, 0.2870



42.6165, 0.3637, 0.3554

# Complementary

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



42.6165, 0.2833, 0.3450



30.2103, 0.3536, 0.3137

# 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.



42.6165, 0.3596, 0.3345



42.6165, 0.2833, 0.3450



42.6165, 0.3171, 0.2961

# Square

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



42.6165, 0.2833, 0.3450



42.6165, 0.2726, 0.2880



42.6165, 0.3422, 0.3132



42.6165, 0.3536, 0.3705



# Rectangle

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



42.6165, 0.2833, 0.3450



42.6165, 0.2640, 0.3059



42.6165, 0.3422, 0.3132



42.6165, 0.3640, 0.3488

# Sweetspot

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



42.6182, 0.2833, 0.3450



83.4516, 0.3030, 0.3337



42.4548, 0.3192, 0.3986



17.8620, 0.3012, 0.3346



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.



42.6182, 0.2833, 0.3450



75.4755, 0.2772, 0.3493



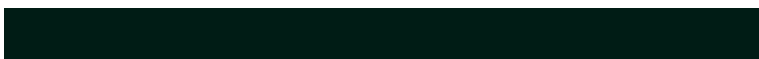
38.3767, 0.2742, 0.3117



10.1737, 0.3016, 0.3344



24.9613, 0.2458, 0.4050



0.8888, 0.2397, 0.3830



# Inverse Universe

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



30.2103, 0.3536, 0.3137



48.9352, 0.3666, 0.3099



33.4052, 0.3620, 0.3456



9.0458, 0.3252, 0.3237



7.1530, 0.5948, 0.3050

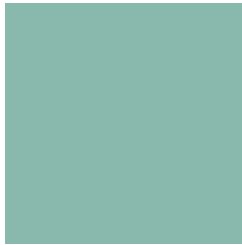


0.2620, 0.5214, 0.2646



# Previews

## White Background



This preview shows how the Yxy color 42.6165, 0.2833, 0.3450 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

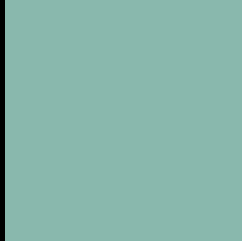
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.6165, 0.2833, 0.3450 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

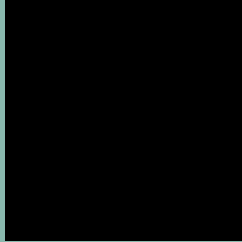
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

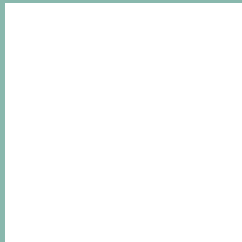
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.6165, 0.2833, 0.3450**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.6165, 0.2833, 0.3450.



This preview shows how white text looks on a background with the Yxy color 42.6165, 0.2833, 0.3450.

# 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

42.6165, 0.2833, 0.3450

### Protanopia

42.2609, 0.3232, 0.3371

### Deuteranopia

42.4577, 0.3260, 0.3199



## Tritanopia

42.7387, 0.2716, 0.3093

# Trichromacy



**Original Color**

42.6165, 0.2833, 0.3450

**Protanomaly**

42.2014, 0.3079, 0.3402

**Deuteranomaly**

42.0252, 0.3093, 0.3276

**Tritanomaly**

42.6192, 0.2757, 0.3218

# Monochromacy



**Original Color**

42.6165, 0.2833, 0.3450

**Achromatopsia**

39.6755, 0.3127, 0.3290

**Achromatomaly**

40.3425, 0.3011, 0.3347

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.6165, 0.2833, 0.3450 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(137, 184, 173)` looks like.

```
.text, #text, p{  
    color:rgb(137, 184, 173)  
}
```

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(137, 184, 173) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 184, 173) }
```

## Border

The CSS property to change the border of an element to Yxy 42.6165, 0.2833, 0.3450 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(137, 184, 173) }
```

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

```
.border{ border-color:rgb(137, 184, 173) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 184, 173)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 184, 173); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 184, 173);  
box-shadow:4px 4px 4px 4px rgb(137, 184,  
173) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.6165, 0.2833, 0.3450 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 184, 173) }
```

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

```
.background{ background-color: rgb(137,  
184, 173) }
```

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