

# Converting Colors

$Y_{xy}(42.4492, 0.2849, 0.3757)$

Have a look what the booklet for  
Yxy(42.4492, 0.2849, 0.3757)  
contains.

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# Color

**Yxy(42.6117, 0.2846, 0.3762)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7BBC9D
RGB	123, 188, 157
RGB Percent	48%, 74%, 62%
CMY	0.5177, 0.2627, 0.3843
CMYK	0.35, 0.00, 0.16, 0.26
HSL	151°, 33%, 61%
HSV	151°, 35%, 74%
XYZ	32.2363, 42.6117, 38.4208
YIQ	165.0310, -28.7890, -23.4210

# Conversions

## Conversions Part 2

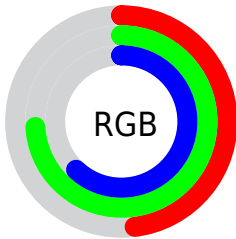
<b>Format</b>	<b>Color</b>
<b>RYB</b>	123, 166, 188
Decimal	8109213
CIELab	71.29, -27.56, 9.17
CIELCh	71, 29.049, 161.595
Yxy	42.6117, 0.2846, 0.3762
Android (android.graphics.Color)	4286299293 (0xFF7BBC9D)
YUV	165.0310, -3.9593, -36.8612
Hunter-Lab	65.2776, -26.0866, 10.7978

# Details

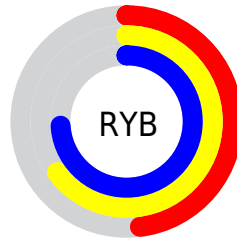
The Yxy color **42.6117, 0.2846, 0.3762** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **27.1903, 0.3547, 0.2865**, and the grayscale version is **37.6723, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.4054, 0.2896, 0.3670**, and **19.4304, 0.2755, 0.3900** is the 20% darker color. If you saturate the color by 10%, you get **41.0624, 0.2780, 0.3928**, and if you desaturate by 10%, it is **44.4533, 0.2921, 0.3609**.

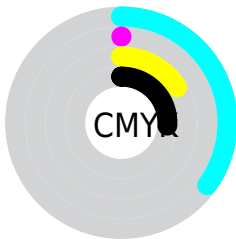
# Distribution



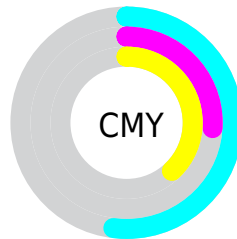
- Red (48%)
- Green (74%)
- Blue (62%)



- Red (48%)
- Yellow (65%)
- Blue (74%)



- Cyan (35%)
- Magenta (0%)
- Yellow (16%)
- Black (26%)




- Cyan (52%)
- Magenta (26%)
- Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.6117, 0.2846, 0.3762 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 42.6117, 0.2846, 0.3762 by changing the saturation by 10% instead.



 42.6117, 0.2846,  
0.3762


 42.6117, 0.2846,  
0.3762


357.0124, 0.2992,  
0.3515


 29.5806, 0.2808,  
0.3828


 79.1246, 0.2901,  
0.3669

 19.5204, 0.2757,  
0.3914


 103.3751, 0.2921,  
0.3636

 12.0469, 0.2688,  
0.4034


 132.1342, 0.2937,  
0.3607

 6.7757, 0.2587,  
0.4209

165.7863, 0.2952,  
0.3583

 3.3222, 0.2428,  
0.4491

204.7158, 0.2964,  
0.3562

 1.3022, 0.2031,  
0.5133

249.3070, 0.2975,

 0.1429, 0.0000,

0.3545

1.0000

299.9445, 0.2984,  
0.3529

0.0000, 0.0000,  
0.0000

42.6117, 0.2846,  
0.3762

42.6117, 0.2846,  
0.3762

41.0624, 0.2780,  
0.3928

44.4533, 0.2921,  
0.3609

39.7843, 0.2726,  
0.4104

46.5964, 0.3003,  
0.3469

38.7618, 0.2688,  
0.4287


49.0563, 0.3088,  
0.3343

37.9755, 0.2668,  
0.4473

51.8457, 0.3174,  
0.3231


37.4030, 0.2668,  
0.4658

54.9767, 0.3260,  
0.3131

 37.0174, 0.2688,  
0.4837

 58.4605, 0.3344,  
0.3043

 36.8566, 0.2703,  
0.4931

 62.3081, 0.3426,  
0.2966

 62.8714, 0.3357,  
0.2879

 63.3847, 0.3287,  
0.2793

# Harmonies

## Analogous

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



42.6117, 0.3255, 0.4010



42.6117, 0.2846, 0.3762



42.6117, 0.2527, 0.3366

# Triad

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



42.6117, 0.2846, 0.3762



42.6117, 0.2602, 0.2614



42.6117, 0.3952, 0.3513

# Complementary

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



42.6117, 0.2846, 0.3762



27.1903, 0.3547, 0.2865

# 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.



42.6117, 0.3755, 0.3175



42.6117, 0.2846, 0.3762



42.6117, 0.2956, 0.2677

# Square

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



42.6117, 0.2846, 0.3762



42.6117, 0.2395, 0.2713



42.6117, 0.3381, 0.2877



42.6117, 0.3907, 0.3824



# Rectangle

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



42.6117, 0.2846, 0.3762



42.6117, 0.2400, 0.3097



42.6117, 0.3381, 0.2877



42.6117, 0.3912, 0.3400

# Sweetspot

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



42.6134, 0.2846, 0.3762



86.3397, 0.3040, 0.3412



44.3097, 0.3339, 0.4231



18.4345, 0.3028, 0.3430



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290



# Same Dimension

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



42.6134, 0.2846, 0.3762



75.1798, 0.2798, 0.3878



43.3492, 0.2642, 0.3273



10.7307, 0.3047, 0.3402



25.1075, 0.2697, 0.4910



0.9966, 0.2579, 0.4485



# Inverse Universe

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



27.1903, 0.3547, 0.2865



43.2737, 0.3669, 0.2777



26.5573, 0.3927, 0.3308



9.6101, 0.3216, 0.3181



7.7930, 0.5031, 0.2545



0.3185, 0.4483, 0.2243



# Previews

## White Background



This preview shows how the Yxy color 42.6117, 0.2846, 0.3762 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 42.6117, 0.2846, 0.3762 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 42.6117, 0.2846, 0.3762**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.6117, 0.2846, 0.3762.



This preview shows how white text looks on a background with the Yxy color 42.6117, 0.2846, 0.3762.

# 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

42.6117, 0.2846, 0.3762

### Protanopia

42.0021, 0.3416, 0.3617

### Deuteranopia

42.1806, 0.3443, 0.3382



## Tritanopia

42.3926, 0.2636, 0.3076

# Trichromacy



**Original Color**

42.6117, 0.2846, 0.3762

**Protanomaly**

41.6849, 0.3188, 0.3663

**Deuteranomaly**

41.6330, 0.3198, 0.3500

**Tritanomaly**

42.3255, 0.2715, 0.3318

# Monochromacy



**Original Color**

42.6117, 0.2846, 0.3762

**Achromatopsia**

37.6262, 0.3127, 0.3290

**Achromatomaly**

38.9798, 0.3014, 0.3452

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.6117, 0.2846, 0.3762 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(123, 188, 157)` looks like.

```
.text, #text, p{  
    color:rgb(123, 188, 157)  
}
```

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(123, 188, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 188, 157) }
```

## Border

The CSS property to change the border of an element to Yxy 42.6117, 0.2846, 0.3762 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(123, 188, 157) }
```

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

```
.border{ border-color:rgb(123, 188, 157) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 188, 157)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 188, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 188, 157);  
box-shadow:4px 4px 4px 4px rgb(123, 188,  
157) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.6117, 0.2846, 0.3762 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 188, 157) }
```

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

```
.background{ background-color: rgb(123,  
188, 157) }
```

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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