

# Converting Colors

$Yxy(42.2043, 0.2919, 0.3826)$

Have a look what the booklet for  
Yxy(42.2043, 0.2919, 0.3826)  
contains.

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# Color

**Yxy(42.3642, 0.2923, 0.3838)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80BB97
RGB	128, 187, 151
RGB Percent	50%, 73%, 59%
CMY	0.4978, 0.2667, 0.4079
CMYK	0.32, 0.00, 0.19, 0.27
HSL	143°, 30%, 62%
HSV	143°, 32%, 73%
XYZ	32.2643, 42.3642, 35.7524
YIQ	165.2550, -23.6080, -23.7040

# Conversions

## Conversions Part 2

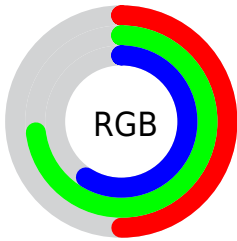
Format	Color
<a href="#">RYB</a>	<a href="#">128, 170, 187</a>
Decimal	<a href="#">8436631</a>
CIELab	<a href="#">71.12, -26.73, 12.23</a>
CIELCh	<a href="#">71, 29.397, 155.415</a>
Yxy	<a href="#">42.3642, 0.2923, 0.3838</a>
Android (android.graphics.Color)	<a href="#">4286626711</a> ( <a href="#">0xFF80BB97</a> )
YUV	<a href="#">165.2550, -7.0277, -32.6726</a>
Hunter-Lab	<a href="#">65.0878, -25.4203, 12.9938</a>

# Details

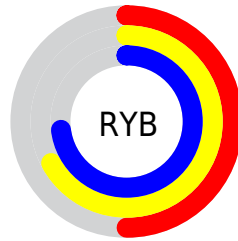
The Yxy color **42.3642, 0.2923, 0.3838** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **28.7000, 0.3408, 0.2801**, and the grayscale version is **37.8047, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.4540, 0.2964, 0.3728**, and **19.2317, 0.2851, 0.4011** is the 20% darker color. If you saturate the color by 10%, you get **40.6929, 0.2868, 0.4049**, and if you desaturate by 10%, it is **44.3422, 0.2985, 0.3644**.

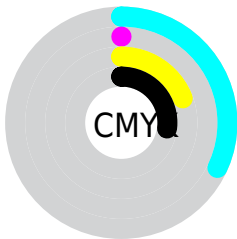
# Distribution



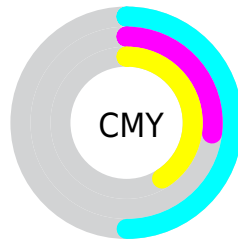
- Red (50%)
- Green (73%)
- Blue (59%)



- Red (50%)
- Yellow (67%)
- Blue (73%)



- Cyan (32%)
- Magenta (0%)
- Yellow (19%)
- Black (27%)



- Cyan (50%)
- Magenta (27%)
- Yellow (41%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.3642, 0.2923, 0.3838 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 42.3642, 0.2923, 0.3838 by changing the saturation by 10% instead.





 42.3642, 0.2923,  
0.3838


 42.3642, 0.2923,  
0.3838


355.9905, 0.3032,  
0.3550


 29.3866, 0.2894,  
0.3915


 78.7505, 0.2964,  
0.3730

 19.3735, 0.2854,  
0.4017


 102.9280, 0.2979,  
0.3690

 11.9404, 0.2800,  
0.4158


 131.6076, 0.2991,  
0.3657

 6.7031, 0.2718,  
0.4367

165.1736, 0.3002,  
0.3629

 3.2771, 0.2584,  
0.4705

204.0106, 0.3011,  
0.3605

 1.2781, 0.2269,  
0.5603

248.5027, 0.3019,

 0.1241, 0.0000,

0.3584

1.0000

299.0346, 0.3026,  
0.3566

0.0000, 0.0000,  
0.0000

42.3642, 0.2923,  
0.3838

42.3642, 0.2923,  
0.3838

40.6929, 0.2868,  
0.4049

44.3422, 0.2985,  
0.3644

39.3074, 0.2823,  
0.4275

46.6362, 0.3050,  
0.3469

38.1922, 0.2790,  
0.4509


49.2615, 0.3117,  
0.3312


37.3283, 0.2774,  
0.4746


52.2310, 0.3184,  
0.3174

36.6938, 0.2776,  
0.4977


55.5567, 0.3249,  
0.3052


 36.2632, 0.2795,  
0.5193

 59.2501, 0.3312,  
0.2945

 36.0161, 0.2822,  
0.5360

 62.5645, 0.3341,  
0.2847

 63.2310, 0.3253,  
0.2739

 63.9403, 0.3167,  
0.2635

# Harmonies

## Analogous

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



42.3642, 0.3343, 0.4043



42.3642, 0.2923, 0.3838



42.3642, 0.2573, 0.3454

# Triad

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



42.3642, 0.2923, 0.3838



42.3642, 0.2538, 0.2612



42.3642, 0.3942, 0.3445

# Complementary

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



42.3642, 0.2923, 0.3838



28.7000, 0.3408, 0.2801

# 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.



42.3642, 0.3697, 0.3106



42.3642, 0.2923, 0.3838



42.3642, 0.2870, 0.2643

# Square

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



42.3642, 0.2923, 0.3838



42.3642, 0.2364, 0.2747



42.3642, 0.3295, 0.2821



42.3642, 0.3947, 0.3772



# Rectangle

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



42.3642, 0.2923, 0.3838



42.3642, 0.2422, 0.3175



42.3642, 0.3295, 0.2821



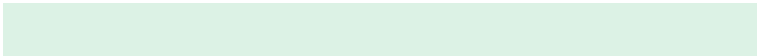
42.3642, 0.3884, 0.3329

# Sweetspot

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



42.3660, 0.2923, 0.3838



84.5922, 0.3066, 0.3430



45.0334, 0.3392, 0.4121



18.4836, 0.3056, 0.3454



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.



42.3660, 0.2923, 0.3838



73.7019, 0.2883, 0.3986



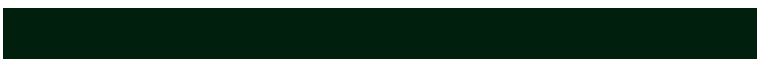
43.4318, 0.2726, 0.3389



10.7095, 0.3064, 0.3433



24.8305, 0.2816, 0.5337



0.9855, 0.2677, 0.4837



# Inverse Universe

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



28.7000, 0.3408, 0.2801



45.2733, 0.3494, 0.2688



27.7651, 0.3750, 0.3195



9.6316, 0.3195, 0.3151



8.1343, 0.4478, 0.2240



0.3311, 0.4098, 0.2031



# Previews

## White Background



This preview shows how the Yxy color 42.3642, 0.2923, 0.3838 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

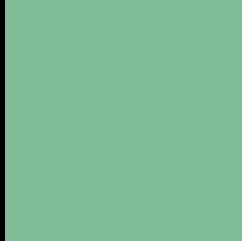
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.3642, 0.2923, 0.3838 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 42.3642, 0.2923, 0.3838**

## Background



This preview shows how black text looks on a background with the Yxy color 42.3642, 0.2923, 0.3838.



This preview shows how white text looks on a background with the Yxy color 42.3642, 0.2923, 0.3838.

# 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

42.3642, 0.2923, 0.3838

### Protanopia

41.9680, 0.3469, 0.3685

### Deuteranopia

41.8743, 0.3520, 0.3447



## Tritanopia

42.3062, 0.2681, 0.3091

# Trichromacy



**Original Color**

42.3642, 0.2923, 0.3838

**Protanomaly**

41.7339, 0.3247, 0.3734

**Deuteranomaly**

41.3759, 0.3277, 0.3570

**Tritanomaly**

42.1900, 0.2769, 0.3347

# Monochromacy



**Original Color**

42.3642, 0.2923, 0.3838

**Achromatopsia**

37.6262, 0.3127, 0.3290

**Achromatomaly**

39.1006, 0.3048, 0.3481

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  42.3642, 0.2923, 0.3838 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(128, 187, 151)` looks like.

```
.text, #text, p{  
    color:rgb(128, 187, 151)  
}
```

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(128, 187, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 187, 151) }
```

## Border

The CSS property to change the border of an element to Yxy 42.3642, 0.2923, 0.3838 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(128, 187, 151) }
```

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

```
.border{ border-color:rgb(128, 187, 151) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 187, 151)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 187, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 187, 151);  
box-shadow:4px 4px 4px 4px rgb(128, 187,  
151) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.3642, 0.2923, 0.3838 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 187, 151) }
```

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

```
.background{ background-color: rgb(128,  
187, 151) }
```

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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