

# Converting Colors

$Y_{xy}(50.1887, 0.2986, 0.3731)$

Have a look what the booklet for  
Yxy(50.1887, 0.2986, 0.3731)  
contains.

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# Color

**Yxy(50.2162, 0.2986, 0.3733)**

# Conversions

## Conversions Part 1

Format	Color
Hex	97C7A7
RGB	151, 199, 167
RGB Percent	59%, 78%, 65%
CMY	0.4077, 0.2196, 0.3451
CMYK	0.24, 0.00, 0.16, 0.22
HSL	140°, 30%, 69%
HSV	140°, 24%, 78%
XYZ	40.1676, 50.2162, 44.1359
YIQ	181.0000, -18.3360, -20.1280

# Conversions

## Conversions Part 2

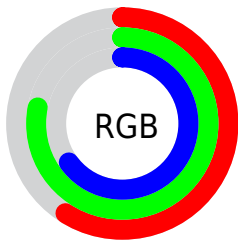
<b>Format</b>	<b>Color</b>
<b>RYB</b>	151, 187, 199
Decimal	9947047
CIELab	76.20, -22.20, 10.95
CIElCh	76, 24.759, 153.744
Yxy	50.2162, 0.2986, 0.3733
Android (android.graphics.Color)	4288137127 (0xFF97C7A7)
YUV	181.0000, -6.9020, -26.3100
Hunter-Lab	70.8634, -22.8316, 12.6767

# Details

The Yxy color **50.2162, 0.2986, 0.3733** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **37.7105, 0.3303, 0.2885**, and the grayscale version is **46.2597, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.9157, 0.3014, 0.3642**, and **24.1413, 0.2942, 0.3868** is the 20% darker color. If you saturate the color by 10%, you get **48.0054, 0.2932, 0.3952**, and if you desaturate by 10%, it is **52.8030, 0.3044, 0.3534**.

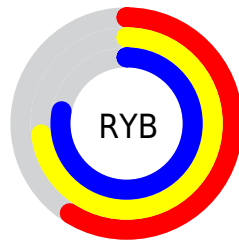
# Distribution



Red (59%)

Green (78%)

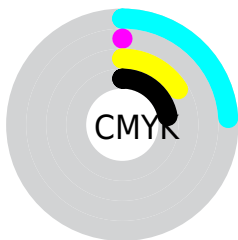
Blue (65%)



Red (59%)

Yellow (73%)

Blue (78%)

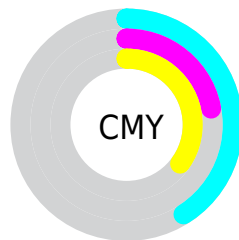


Cyan (24%)

Magenta (0%)

Yellow (16%)

Black (22%)



Cyan (41%)

Magenta (22%)


Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.2162, 0.2986, 0.3733 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 50.2162, 0.2986, 0.3733 by changing the saturation by 10% instead.




 50.2162, 0.2986,  
0.3733


 50.2162, 0.2986,  
0.3733


387.5108, 0.3059,  
0.3508

 35.5852, 0.2967,  
0.3791


 90.4951, 0.3013,  
0.3650

 24.1140, 0.2942,  
0.3865


 116.9119, 0.3023,  
0.3619

 15.4182, 0.2908,  
0.3966


148.0260, 0.3031,  
0.3593

 9.1134, 0.2860,  
0.4109

184.2218, 0.3039,  
0.3571

 4.8152, 0.2784,  
0.4328

225.8838, 0.3045,  
0.3552

 2.1393, 0.2649,  
0.4702

273.3964, 0.3050,

 0.6866, 0.1387,

0.3535

0.8613

327.1439, 0.3055,  
0.3521

0.0000, 0.0000,  
0.0000

50.2162, 0.2986,  
0.3733

50.2162, 0.2986,  
0.3733

48.0054, 0.2932,  
0.3952

52.8030, 0.3044,  
0.3534

46.1467, 0.2885,  
0.4190

55.7760, 0.3103,  
0.3357

44.6230, 0.2848,  
0.4441

59.1526, 0.3162,  
0.3200

43.4134, 0.2823,  
0.4699

62.9476, 0.3220,  
0.3062

42.4945, 0.2815,  
0.4954

67.1746, 0.3275,  
0.2941

■ 41.8395, 0.2823,  
0.5194

■ 68.7991, 0.3212,  
0.2819

■ 41.4159, 0.2849,  
0.5410

■ 69.3242, 0.3153,  
0.2742

■ 41.2402, 0.2867,  
0.5523

# Harmonies

## Analogous

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



50.2162, 0.3323, 0.3886



50.2162, 0.2986, 0.3733



50.2162, 0.2698, 0.3441

# Triad

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



50.2162, 0.2986, 0.3733



50.2162, 0.2642, 0.2746



50.2162, 0.3767, 0.3406

# Complementary

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



50.2162, 0.2986, 0.3733



37.7105, 0.3303, 0.2885

# 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.



50.2162, 0.3565, 0.3130



50.2162, 0.2986, 0.3733



50.2162, 0.2906, 0.2761

# Square

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



50.2162, 0.2986, 0.3733



50.2162, 0.2507, 0.2869



50.2162, 0.3244, 0.2900



50.2162, 0.3785, 0.3670



# Rectangle

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



50.2162, 0.2986, 0.3733



50.2162, 0.2568, 0.3222



50.2162, 0.3244, 0.2900



50.2162, 0.3718, 0.3312

# Sweetspot

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



50.2183, 0.2986, 0.3733



96.0269, 0.3085, 0.3408



53.2472, 0.3359, 0.3911



20.4839, 0.3081, 0.3419



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

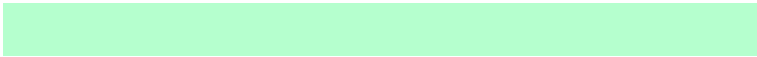


# Same Dimension

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



50.2183, 0.2986, 0.3733



85.7895, 0.2957, 0.3847



51.1548, 0.2832, 0.3407



11.9451, 0.3071, 0.3448



26.5347, 0.2861, 0.5498



1.2699, 0.2739, 0.5059



# Inverse Universe

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



37.7105, 0.3303, 0.2885



60.0632, 0.3352, 0.2792



36.8224, 0.3533, 0.3177



10.7543, 0.3187, 0.3137



8.9094, 0.4260, 0.2120



0.4349, 0.3988, 0.1971



# Previews

## White Background



This preview shows how the Yxy color 50.2162, 0.2986, 0.3733 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

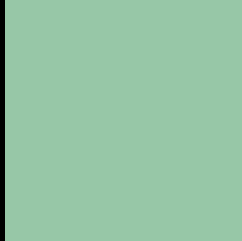
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.2162, 0.2986, 0.3733 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

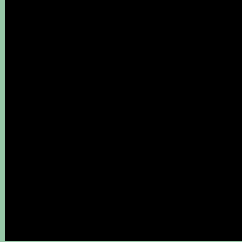
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

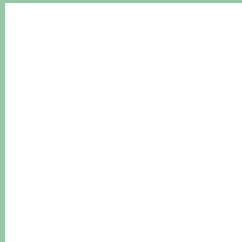
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 50.2162, 0.2986, 0.3733**

## Background



This preview shows how black text looks on a background with the Yxy color 50.2162, 0.2986, 0.3733.



This preview shows how white text looks on a background with the Yxy color 50.2162, 0.2986, 0.3733.

# 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

50.2162, 0.2986, 0.3733

### Protanopia

49.9842, 0.3420, 0.3620

### Deuteranopia

49.8369, 0.3474, 0.3412



## Tritanopia

50.1143, 0.2760, 0.3082

# Trichromacy



## Original Color

50.2162, 0.2986, 0.3733

## Protanomaly

49.6092, 0.3250, 0.3659

## Deuteranomaly

49.6875, 0.3276, 0.3522

## Tritanomaly

49.9932, 0.2838, 0.3302

# Monochromacy



## Original Color

50.2162, 0.2986, 0.3733

## Achromatopsia

46.2077, 0.3127, 0.3290

## Achromatomaly

47.6471, 0.3070, 0.3451

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.2162, 0.2986, 0.3733 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(151, 199, 167)` looks like.

```
.text, #text, p{  
    color:rgb(151, 199, 167)  
}
```

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(151, 199, 167) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(151, 199, 167) }
```

## Border

The CSS property to change the border of an element to Yxy 50.2162, 0.2986, 0.3733 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(151, 199, 167) }
```

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

```
.border{ border-color:rgb(151, 199, 167) }
```

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

Here you see how a box with a 4 pixel `rgb(151, 199, 167)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(151, 199, 167); -webkit-box-  
shadow:4px 4px 4px 4px rgb(151, 199, 167);  
box-shadow:4px 4px 4px 4px rgb(151, 199,  
167) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.2162, 0.2986, 0.3733 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(151, 199, 167) }
```

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

```
.background{ background-color: rgb(151,  
199, 167) }
```

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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