

# Converting Colors

$Y_{xy}(47.3266, 0.2899, 0.3744)$

Have a look what the booklet for  
Yxy(47.3266, 0.2899, 0.3744)  
contains.

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# Color

**Yxy(47.4786, 0.2904, 0.3751)**

# Conversions

## Conversions Part 1

Format	Color
Hex	89C4A4
RGB	137, 196, 164
RGB Percent	54%, 77%, 64%
CMY	0.4627, 0.2314, 0.3569
CMYK	0.30, 0.00, 0.16, 0.23
HSL	147°, 33%, 65%
HSV	147°, 30%, 77%
XYZ	36.7576, 47.4786, 42.3396
YIQ	174.7110, -24.8920, -22.4600

# Conversions

## Conversions Part 2

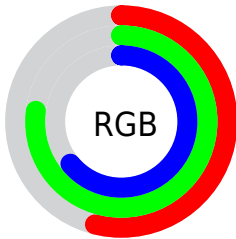
<b>Format</b>	<b>Color</b>
<b>RYB</b>	137, 177, 196
Decimal	9028772
CIELab	74.49, -25.78, 10.05
CIELCh	74, 27.669, 158.710
Yxy	47.4786, 0.2904, 0.3751
Android (android.graphics.Color)	4287218852 (0xFF89C4A4)
YUV	174.7110, -5.2805, -33.0725
Hunter-Lab	68.9047, -25.3614, 11.8016

# Details

The Yxy color **47.4786, 0.2904, 0.3751** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **32.4979, 0.3436, 0.2872**, and the grayscale version is **42.7518, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.5715, 0.2948, 0.3664**, and **22.4471, 0.2838, 0.3898** is the 20% darker color. If you saturate the color by 10%, you get **45.6032, 0.2840, 0.3936**, and if you desaturate by 10%, it is **49.6910, 0.2975, 0.3582**.

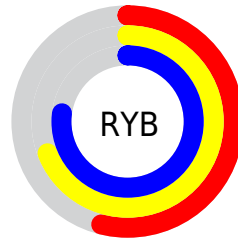
# Distribution



Red (54%)

Green (77%)

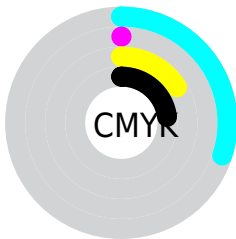
Blue (64%)



Red (54%)

Yellow (69%)

Blue (77%)

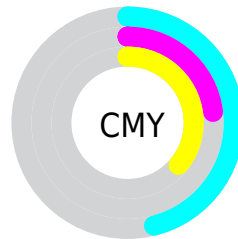


Cyan (30%)

Magenta (0%)

Yellow (16%)

Black (23%)



Cyan (46%)

Magenta (23%)

Yellow (36%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.4786, 0.2904, 0.3751 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 47.4786, 0.2904, 0.3751 by changing the saturation by 10% instead.



 47.4786, 0.2904,  
0.3751


 47.4786, 0.2904,  
0.3751


376.7217, 0.3019,  
0.3514


 33.4142, 0.2874,  
0.3812


 86.4276, 0.2946,  
0.3663

 22.4439, 0.2836,  
0.3893


 112.0809, 0.2962,  
0.3631

 14.1834, 0.2783,  
0.4002


 142.3660, 0.2975,  
0.3604

 8.2484, 0.2708,  
0.4158

177.6673, 0.2987,  
0.3580

 4.2543, 0.2590,  
0.4402

218.3691, 0.2996,  
0.3560

 1.8168, 0.2385,  
0.4831

264.8558, 0.3005,

 0.4976, 0.0000,

0.3543

1.0000

317.5119, 0.3012,  
0.3527

0.0000, 0.0000,  
0.0000

47.4786, 0.2904,  
0.3751

47.4786, 0.2904,  
0.3751

45.6032, 0.2840,  
0.3936

49.6910, 0.2975,  
0.3582

44.0417, 0.2787,  
0.4134

52.2504, 0.3050,  
0.3428

42.7776, 0.2747,  
0.4342

55.1734, 0.3126,  
0.3291

41.7901, 0.2724,  
0.4554


58.4741, 0.3203,  
0.3170

41.0557, 0.2720,  
0.4765


62.1655, 0.3279,  
0.3063

 40.5467, 0.2735,  
0.4968

 66.2603, 0.3352,  
0.2969

 40.2126, 0.2766,  
0.5156

 66.9414, 0.3275,  
0.2866

 67.5871, 0.3196,  
0.2766

 67.9612, 0.3154,  
0.2712

# Harmonies

## Analogous

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



47.4786, 0.3284, 0.3959



47.4786, 0.2904, 0.3751



47.4786, 0.2597, 0.3398

# Triad

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



47.4786, 0.2904, 0.3751



47.4786, 0.2618, 0.2667



47.4786, 0.3876, 0.3469

# Complementary

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



47.4786, 0.2904, 0.3751



32.4979, 0.3436, 0.2872

# 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.



47.4786, 0.3676, 0.3156



47.4786, 0.2904, 0.3751



47.4786, 0.2935, 0.2711

# Square

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



47.4786, 0.2904, 0.3751



47.4786, 0.2440, 0.2777



47.4786, 0.3324, 0.2886



47.4786, 0.3858, 0.3761



# Rectangle

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



47.4786, 0.2904, 0.3751



47.4786, 0.2469, 0.3149



47.4786, 0.3324, 0.2886



47.4786, 0.3832, 0.3364

# Sweetspot

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



47.4806, 0.2904, 0.3751



95.1276, 0.3057, 0.3415



49.7736, 0.3348, 0.4092



20.2038, 0.3046, 0.3436



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

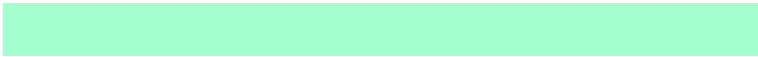


# Same Dimension

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



47.4806, 0.2904, 0.3751



83.7435, 0.2862, 0.3869



48.6535, 0.2716, 0.3330



11.3337, 0.3055, 0.3418



25.8545, 0.2758, 0.5131



1.1310, 0.2638, 0.4695



# Inverse Universe

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



32.4979, 0.3436, 0.2872



52.3313, 0.3526, 0.2779



31.5244, 0.3760, 0.3252



10.1673, 0.3206, 0.3166



8.2323, 0.4758, 0.2395



0.3695, 0.4322, 0.2154



# Previews

## White Background



This preview shows how the Yxy color 47.4786, 0.2904, 0.3751 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

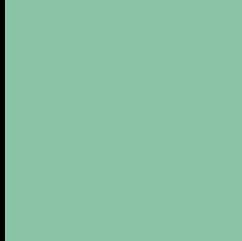
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.4786, 0.2904, 0.3751 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

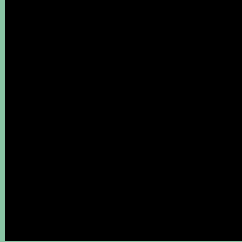
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 47.4786, 0.2904, 0.3751**

## Background



This preview shows how black text looks on a background with the Yxy color 47.4786, 0.2904, 0.3751.

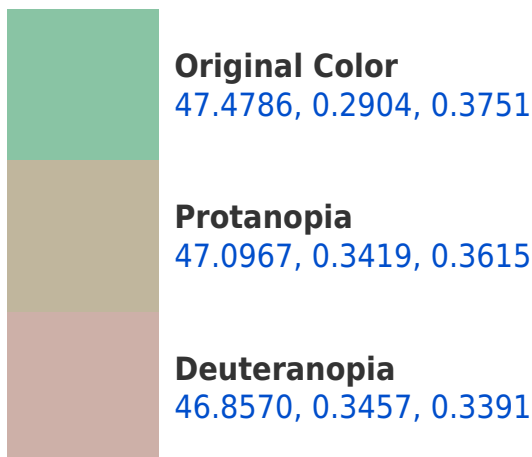


This preview shows how white text looks on a background with the Yxy color 47.4786, 0.2904, 0.3751.

# 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





## Tritanopia

47.2544, 0.2686, 0.3087

# Trichromacy



**Original Color**

47.4786, 0.2904, 0.3751

**Protanomaly**

46.8494, 0.3210, 0.3657

**Deuteranomaly**

46.3603, 0.3229, 0.3503

**Tritanomaly**

47.1678, 0.2763, 0.3317

# Monochromacy



**Original Color**

47.4786, 0.2904, 0.3751

**Achromatopsia**

42.8690, 0.3127, 0.3290

**Achromatomaly**

44.3843, 0.3036, 0.3457

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.4786, 0.2904, 0.3751 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, 196, 164)` looks like.

```
.text, #text, p{  
    color:rgb(137, 196, 164)  
}
```

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, 196, 164) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 196, 164) }
```

## Border

The CSS property to change the border of an element to Yxy 47.4786, 0.2904, 0.3751 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, 196, 164) }
```

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

```
.border{ border-color:rgb(137, 196, 164) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 196, 164)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 196, 164); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 196, 164);  
box-shadow:4px 4px 4px 4px rgb(137, 196,  
164) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.4786, 0.2904, 0.3751 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 196, 164) }
```

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

```
.background{ background-color: rgb(137,  
196, 164) }
```

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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