

# Converting Colors

Yxy(48.9769, 0.3120, 0.4356)

Have a look what the booklet for  
Yxy(48.9769, 0.3120, 0.4356)  
contains.

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# Color

**Yxy(48.9769, 0.3120, 0.4356)**

# Conversions

## Conversions Part 1

Format	Color
Hex	87CA81
RGB	135, 202, 129
RGB Percent	53%, 79%, 51%
CMY	0.4704, 0.2079, 0.4941
CMYK	0.33, 0.00, 0.36, 0.21
HSL	115°, 41%, 65%
HSV	115°, 36%, 79%
XYZ	35.0799, 48.9769, 28.3787
YIQ	173.6450, -16.4990, -36.9070

# Conversions

## Conversions Part 2

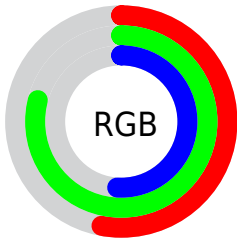
Format	Color
<a href="#">RYB</a>	<a href="#">129, 202, 196</a>
Decimal	<a href="#">8899201</a>
CIELab	<a href="#">75.44, -35.47, 29.90</a>
CIElCh	<a href="#">75, 46.389, 139.874</a>
Yxy	<a href="#">48.9769, 0.3120, 0.4356</a>
Android (android.graphics.Color)	<a href="#">4287089281 (0xFF87CA81)</a>
YUV	<a href="#">173.6450, -22.0100, -33.8917</a>
Hunter-Lab	<a href="#">69.9835, -32.9964, 24.9460</a>

# Details

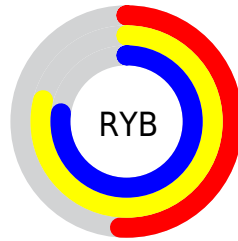
The Yxy color **48.9769, 0.3120, 0.4356** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **31.7017, 0.3108, 0.2387**, and the grayscale version is **42.2627, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.8860, 0.3131, 0.4102**, and **23.2258, 0.3088, 0.4680** is the 20% darker color. If you saturate the color by 10%, you get **47.0874, 0.3111, 0.4704**, and if you desaturate by 10%, it is **51.2444, 0.3125, 0.4023**.

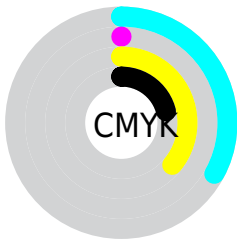
# Distribution



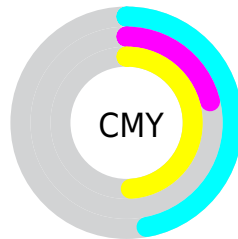
- Red (53%)
- Green (79%)
- Blue (51%)



- Red (51%)
- Yellow (79%)
- Blue (77%)



- Cyan (33%)
- Magenta (0%)
- Yellow (36%)
- Black (21%)




- Cyan (47%)
- Magenta (21%)
- Yellow (49%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.9769, 0.3120, 0.4356 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 48.9769, 0.3120, 0.4356 by changing the saturation by 10% instead.





 48.9769, 0.3120,  
0.4356


 48.9769, 0.3120,  
0.4356


382.6514, 0.3141,  
0.3799


 34.6012, 0.3108,  
0.4502


 88.6571, 0.3132,  
0.4148

 23.3558, 0.3089,  
0.4692


 114.7304, 0.3136,  
0.4072

 14.8565, 0.3056,  
0.4950


 145.4717, 0.3138,  
0.4008

 8.7187, 0.2996,  
0.5318

181.2653, 0.3139,  
0.3953

 4.5582, 0.2872,  
0.5871

222.4957, 0.3140,  
0.3907

 1.9904, 0.2759,  
0.7241

269.5472, 0.3141,

 0.6019, 0.0000,

0.3866

1.0000

322.8043, 0.3141,  
0.3830

0.0000, 0.0000,  
0.0000

48.9769, 0.3120,  
0.4356

48.9769, 0.3120,  
0.4356

47.0874, 0.3111,  
0.4704

51.2444, 0.3125,  
0.4023

45.5494, 0.3098,  
0.5051

53.9022, 0.3128,  
0.3717

44.3431, 0.3082,  
0.5373


56.9699, 0.3128,  
0.3442


43.4438, 0.3063,  
0.5643


60.4637, 0.3126,  
0.3200


42.8235, 0.3042,  
0.5841

64.3992, 0.3124,  
0.2989

 42.4488, 0.3022,  
0.5956

 68.7909, 0.3120,  
0.2806

 42.3556, 0.3017,  
0.5987

 70.7195, 0.3151,  
0.2772

# Harmonies

## Analogous

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



48.9769, 0.3733, 0.4439



48.9769, 0.3120, 0.4356



48.9769, 0.2541, 0.3868

# Triad

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



48.9769, 0.3120, 0.4356



48.9769, 0.2111, 0.2365



48.9769, 0.4206, 0.3230

# Complementary

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



48.9769, 0.3120, 0.4356



31.7017, 0.3108, 0.2387

# 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.



48.9769, 0.3681, 0.2788



48.9769, 0.3120, 0.4356



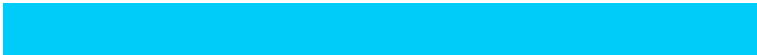
48.9769, 0.2466, 0.2307

# Square

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



48.9769, 0.3120, 0.4356



48.9769, 0.2000, 0.2665



48.9769, 0.3029, 0.2461



48.9769, 0.4399, 0.3717

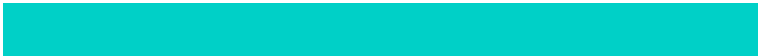


# Rectangle

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



48.9769, 0.3120, 0.4356



48.9769, 0.2250, 0.3426



48.9769, 0.3029, 0.2461



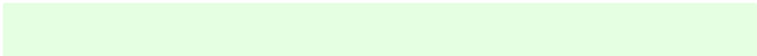
48.9769, 0.4061, 0.3074

# Sweetspot

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



48.9790, 0.3120, 0.4356



93.7648, 0.3128, 0.3576



53.5831, 0.3689, 0.4115



19.9182, 0.3128, 0.3614



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

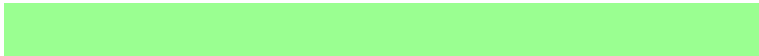


# Same Dimension

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



48.9790, 0.3120, 0.4356



80.4841, 0.3114, 0.4615



49.4260, 0.2883, 0.3907



12.5804, 0.3128, 0.3529



27.2724, 0.3021, 0.5984



1.4226, 0.3087, 0.5931



# Inverse Universe

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



31.7017, 0.3108, 0.2387



47.1624, 0.3100, 0.2208



31.2239, 0.3487, 0.2749



11.3549, 0.3125, 0.3061



9.4267, 0.3004, 0.1429

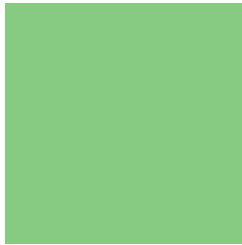


0.5005, 0.3047, 0.1452



# Previews

## White Background



This preview shows how the Yxy color 48.9769, 0.3120, 0.4356 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 48.9769, 0.3120, 0.4356 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

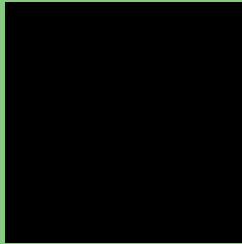
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.9769, 0.3120, 0.4356**

## Background



This preview shows how black text looks on a background with the Yxy color 48.9769, 0.3120, 0.4356.

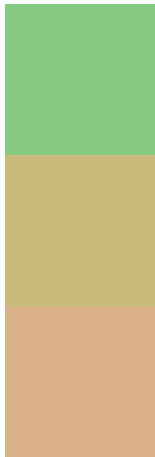


This preview shows how white text looks on a background with the Yxy color 48.9769, 0.3120, 0.4356.

# 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

48.9769, 0.3120, 0.4356

### Protanopia

48.5206, 0.3781, 0.4082

### Deuteranopia

48.2536, 0.3877, 0.3794



## Tritanopia

48.6429, 0.2697, 0.3077

# Trichromacy



**Original Color**

48.9769, 0.3120, 0.4356

**Protanomaly**

48.0894, 0.3515, 0.4178

**Deuteranomaly**

47.5026, 0.3570, 0.3987

**Tritanomaly**

48.6638, 0.2853, 0.3526

# Monochromacy



**Original Color**

48.9769, 0.3120, 0.4356

**Achromatopsia**

42.3268, 0.3127, 0.3290

**Achromatomaly**

44.2232, 0.3127, 0.3657

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.9769, 0.3120, 0.4356 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(135, 202, 129)` looks like.

```
.text, #text, p{  
    color:rgb(135, 202, 129)  
}
```

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(135, 202, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 202, 129) }
```

## Border

The CSS property to change the border of an element to Yxy 48.9769, 0.3120, 0.4356 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(135, 202, 129) }
```

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

```
.border{ border-color:rgb(135, 202, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 202, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(135, 202, 129); -webkit-box-shadow:4px 4px 4px 4px rgb(135, 202, 129); box-shadow:4px 4px 4px 4px rgb(135, 202, 129) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.9769, 0.3120, 0.4356 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 202, 129) }
```

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

```
.background{ background-color: rgb(135,  
202, 129) }
```

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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