

# Converting Colors

$Y_{xy}(49.4491, 0.2583, 0.4498)$

Have a look what the booklet for  
Yxy(49.4491, 0.2583, 0.4498)  
contains.

<b>Yxy(49.4235, 0.2583, 0.4497)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(49.4235, 0.2583, 0.4497)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01D58A
RGB	1, 213, 138
RGB Percent	0%, 84%, 54%
CMY	0.9975, 0.1647, 0.4588
CMYK	1.00, 0.00, 0.35, 0.16
HSL	159°, 99%, 42%
HSV	159°, 100%, 84%
XYZ	28.3880, 49.4235, 32.0918
YIQ	141.0620, -102.2770, -68.2690

# Conversions

## Conversions Part 2

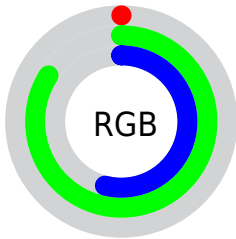
Format	Color
<b>RYB</b>	1, 130, 213
Decimal	120202
CIELab	75.71, -61.10, 25.03
CIELCh	76, 66.025, 157.723
Yxy	49.4235, 0.2583, 0.4497
Android (android.graphics.Color)	4278310282 (0xFF01D58A)
YUV	141.0620, -1.5096, -122.8344
Hunter-Lab	70.3018, -50.9496, 22.1463

# Details

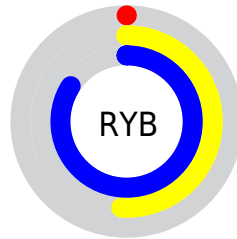
The Yxy color **49.4235, 0.2583, 0.4497** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **14.6759, 0.5580, 0.2850**, and the grayscale version is **26.6523, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.2688, 0.2662, 0.4086**, and **24.8021, 0.2667, 0.4801** is the 20% darker color. If you saturate the color by 10%, you get **49.4148, 0.2584, 0.4501**, and if you desaturate by 10%, it is **49.8167, 0.2564, 0.4363**.

# Distribution



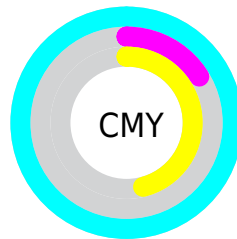
- Red (0%)
- Green (84%)
- Blue (54%)



- Red (0%)
- Yellow (51%)
- Blue (84%)



- Cyan (100%)
- Magenta (0%)
- Yellow (35%)
- Black (16%)




- Cyan (100%)
- Magenta (16%)
- Yellow (46%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.4235, 0.2583, 0.4497 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 49.4235, 0.2583, 0.4497 by changing the saturation by 10% instead.





 49.4235, 0.2583,  
0.4497


 49.4235, 0.2583,  
0.4497


384.4072, 0.2873,  
0.3856


 34.9555, 0.2505,  
0.4668


 89.3201, 0.2692,  
0.4256

 23.6286, 0.2403,  
0.4894


 115.5176, 0.2732,  
0.4168

 15.0584, 0.2261,  
0.5204


 146.3936, 0.2765,  
0.4094

 8.8604, 0.2055,  
0.5654

 182.3327, 0.2794,  
0.4032

 4.6502, 0.1736,  
0.6348

 223.7192, 0.2818,  
0.3979

 2.0435, 0.0689,  
0.8696

270.9376, 0.2838,

 0.6326, 0.0000,

0.3932

1.0000

324.3721, 0.2857,  
0.3892

■ 0.0000, 0.0000,  
0.0000

■ 49.4235, 0.2583,  
0.4497

■ 49.4235, 0.2583,  
0.4497

■ 49.4148, 0.2584,  
0.4501

■ 49.8167, 0.2564,  
0.4363

■ 50.4065, 0.2562,  
0.4227

■ 51.2524, 0.2581,  
0.4090

■ 52.3875, 0.2619,  
0.3955

■ 53.8398, 0.2676,  
0.3824

■ 55.6339, 0.2748,  
0.3699

■ 57.7917, 0.2832,  
0.3582

■ 60.3336, 0.2926,  
0.3475

■ 63.2781, 0.3026,  
0.3376

# Harmonies

## Analogous

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



49.4235, 0.3414, 0.4963



49.4235, 0.2583, 0.4497



49.4235, 0.1948, 0.3527

# Triad

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



49.4235, 0.2583, 0.4497



49.4235, 0.1995, 0.1964



49.4235, 0.4876, 0.3535

# Complementary

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



49.4235, 0.2583, 0.4497



14.6759, 0.5580, 0.2850

# 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.



49.4235, 0.4399, 0.2924



49.4235, 0.2583, 0.4497



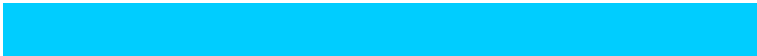
49.4235, 0.2632, 0.2068

# Square

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



49.4235, 0.2583, 0.4497



49.4235, 0.1668, 0.2136



49.4235, 0.3521, 0.2407

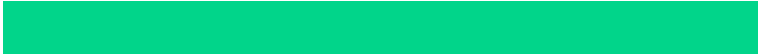


49.4235, 0.4773, 0.4177



# Rectangle

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



49.4235, 0.2583, 0.4497



49.4235, 0.1708, 0.2905



49.4235, 0.3521, 0.2407



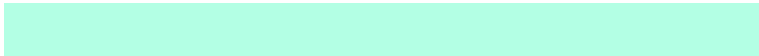
49.4235, 0.4780, 0.3326

# Sweetspot

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



49.4255, 0.2583, 0.4497



86.6450, 0.2827, 0.3589



49.2285, 0.3200, 0.5839



18.2383, 0.2790, 0.3638



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.



49.4255, 0.2583, 0.4497



74.2351, 0.2587, 0.4514



39.3726, 0.2128, 0.2860



14.0299, 0.3029, 0.3374



30.2064, 0.2578, 0.4482



1.8374, 0.2514, 0.4250



# Inverse Universe

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



14.6759, 0.5580, 0.2850



21.9989, 0.5614, 0.2867



15.0233, 0.6286, 0.3387



12.4925, 0.3236, 0.3208



8.9708, 0.5551, 0.2831

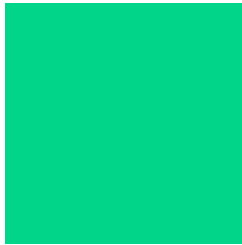


0.5566, 0.5069, 0.2566



# Previews

## White Background



This preview shows how the Yxy color 49.4235, 0.2583, 0.4497 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 49.4235, 0.2583, 0.4497 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

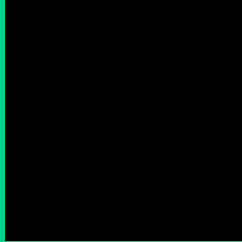
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

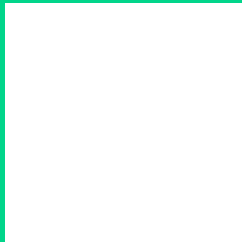
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.4235, 0.2583, 0.4497**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.4235, 0.2583, 0.4497.



This preview shows how white text looks on a background with the Yxy color 49.4235, 0.2583, 0.4497.

# 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

49.4299, 0.2583, 0.4497

### Protanopia

48.4836, 0.3740, 0.4035

### Deuteranopia

48.5150, 0.3747, 0.3678



## Tritanopia

49.3222, 0.2302, 0.3064

# Trichromacy



## Original Color

49.4299, 0.2583, 0.4497



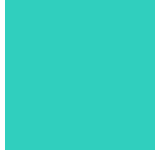
## Protanomaly

45.2311, 0.3066, 0.4274



## Deuteranomaly

44.6480, 0.3055, 0.4003



## Tritanomaly

48.9717, 0.2375, 0.3543

# Monochromacy



## Original Color

49.4299, 0.2583, 0.4497



## Achromatopsia

26.6356, 0.3127, 0.3290



## Achromatomaly

31.7045, 0.2704, 0.3765

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.4235, 0.2583, 0.4497 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(1, 213, 138)` looks like.

```
.text, #text, p{  
    color:rgb(1, 213, 138)  
}
```

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(1, 213, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 213, 138) }
```

## Border

The CSS property to change the border of an element to Yxy 49.4235, 0.2583, 0.4497 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(1, 213, 138) }
```

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

```
.border{ border-color:rgb(1, 213, 138) }
```

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

Here you see how a box with a 4 pixel rgb(1, 213, 138) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 213, 138); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 213, 138);  
box-shadow:4px 4px 4px 4px rgb(1, 213,  
138) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.4235, 0.2583, 0.4497 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 213, 138) }
```

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

```
.background{ background-color: rgb(1, 213,  
138) }
```

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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