

Converting Colors

$Y_{xy}(42.7776, 0.2511, 0.4238)$

Have a look what the booklet for
Yxy(42.7776, 0.2511, 0.4238)
contains.

Yxy(42.8365, 0.2511, 0.4235)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(42.8365, 0.2511, 0.4235)

Conversions

Conversions Part 1

Format	Color
Hex	02C78F
RGB	2, 199, 143
RGB Percent	1%, 78%, 56%
CMY	0.9939, 0.2196, 0.4392
CMYK	0.99, 0.00, 0.28, 0.22
HSL	163°, 98%, 39%
HSV	163°, 99%, 78%
XYZ	25.3985, 42.8365, 32.9138
YIQ	133.7130, -99.4360, -59.1800

Conversions

Conversions Part 2

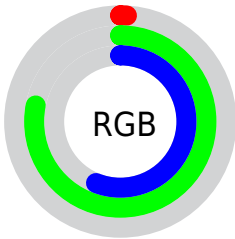
Format	Color
RYB	2, 117, 199
Decimal	182159
CIELab	71.44, -54.86, 16.54
CIELCh	71, 57.300, 163.223
Yxy	42.8365, 0.2511, 0.4235
Android (android.graphics.Color)	4278372239 (0xFF02C78F)
YUV	133.7130, 4.5785, -115.5123
Hunter-Lab	65.4496, -45.2679, 15.9985

Details

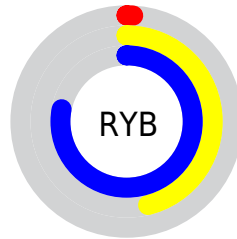
The Yxy color **42.8365, 0.2511, 0.4235** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **12.4763, 0.5809, 0.2980**, and the grayscale version is **23.6867, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.3179, 0.2629, 0.4021**, and **20.7192, 0.2581, 0.4492** is the 20% darker color. If you saturate the color by 10%, you get **42.8148, 0.2512, 0.4243**, and if you desaturate by 10%, it is **43.1680, 0.2500, 0.4129**.

Distribution



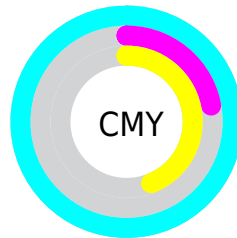
- Red (1%)
- Green (78%)
- Blue (56%)



- Red (1%)
- Yellow (46%)
- Blue (78%)



- Cyan (99%)
- Magenta (0%)
- Yellow (28%)
- Black (22%)




- Cyan (99%)
- Magenta (22%)
- Yellow (44%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 42.8365, 0.2511, 0.4235 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 42.8365, 0.2511, 0.4235 by changing the saturation by 10% instead.

 42.8365, 0.2511,
0.4235


 42.8365, 0.2511,
0.4235


357.9389, 0.2835,
0.3729


 29.7569, 0.2425,
0.4373


 79.4641, 0.2632,
0.4043

 19.6541, 0.2313,
0.4556


 103.7808, 0.2677,
0.3973


 12.1439, 0.2158,
0.4813


 132.6120, 0.2714,
0.3915

 6.8417, 0.1934,
0.5194

 166.3421, 0.2745,
0.3866

 3.3633, 0.1588,
0.5809

 205.3554, 0.2773,
0.3824

 1.3242, 0.0000,
0.8558

250.0364, 0.2796,

 0.1598, 0.0000,

0.3788

1.0000

300.7694, 0.2817,
0.3757

■ 0.0000, 0.0000,
0.0000

■ 42.8365, 0.2511,
0.4235

■ 42.8365, 0.2511,
0.4235

■ 42.8148, 0.2512,
0.4243

■ 43.1680, 0.2500,
0.4129

■ 43.6664, 0.2506,
0.4022

■ 44.3808, 0.2532,
0.3915

■ 45.3386, 0.2577,
0.3809

■ 46.5633, 0.2641,
0.3707

■ 48.0753, 0.2720,
0.3610

■ 49.8930, 0.2812,
0.3518

■ 52.0335, 0.2914,
0.3433

■ 54.5123, 0.3023,
0.3355

Harmonies

Analogous

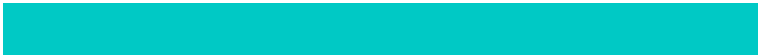
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



42.8365, 0.3262, 0.4773



42.8365, 0.2511, 0.4235



42.8365, 0.1969, 0.3349

Triad

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



42.8365, 0.2511, 0.4235



42.8365, 0.2170, 0.2061



42.8365, 0.4748, 0.3645

Complementary

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



42.8365, 0.2511, 0.4235



12.4763, 0.5809, 0.2980

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.



42.8365, 0.4402, 0.3061



42.8365, 0.2511, 0.4235



42.8365, 0.2814, 0.2200

Square

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



42.8365, 0.2511, 0.4235



42.8365, 0.1809, 0.2177



42.8365, 0.3648, 0.2553



42.8365, 0.4578, 0.4235

Rectangle

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



42.8365, 0.2511, 0.4235



42.8365, 0.1779, 0.2815



42.8365, 0.3648, 0.2553



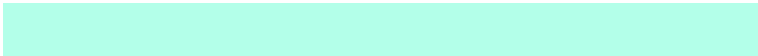
42.8365, 0.4691, 0.3446

Sweetspot

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



42.8382, 0.2511, 0.4235



86.9447, 0.2800, 0.3529



41.8338, 0.3142, 0.5882



18.3101, 0.2760, 0.3567



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.



42.8382, 0.2511, 0.4235



74.9254, 0.2516, 0.4258



29.1046, 0.2067, 0.2637



12.0143, 0.3021, 0.3356



27.5477, 0.2508, 0.4229



1.3164, 0.2447, 0.4008

Inverse Universe

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



12.4763, 0.5809, 0.2980



21.7321, 0.5867, 0.3006



13.7338, 0.6166, 0.3477



10.6856, 0.3246, 0.3225



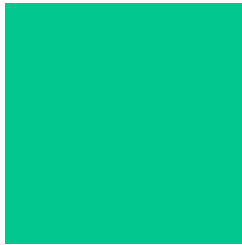
8.0072, 0.5797, 0.2967



0.3919, 0.5185, 0.2630

Previews

White Background



This preview shows how the Yxy color 42.8365, 0.2511, 0.4235 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 42.8365, 0.2511, 0.4235 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

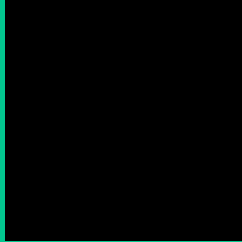
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 42.8365, 0.2511, 0.4235

Background



This preview shows how black text looks on a background with the Yxy color 42.8365, 0.2511, 0.4235.

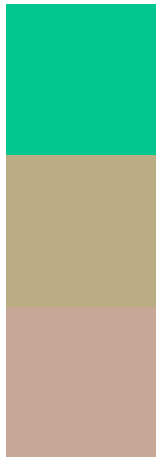


This preview shows how white text looks on a background with the Yxy color 42.8365, 0.2511, 0.4235.

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

42.8429, 0.2511, 0.4235

Protanopia

41.9649, 0.3613, 0.3859

Deuteranopia

41.9816, 0.3586, 0.3511



Tritanopia

42.8761, 0.2289, 0.3065

Trichromacy



Original Color

42.8429, 0.2511, 0.4235



Protanomaly

39.1271, 0.2966, 0.4042



Deuteranomaly

38.8588, 0.2940, 0.3791



Tritanomaly

42.5161, 0.2347, 0.3461

Monochromacy



Original Color

42.8429, 0.2511, 0.4235



Achromatopsia

23.8398, 0.3127, 0.3290



Achromatomaly

28.2383, 0.2678, 0.3674

CSS Examples

Text

The CSS property to change the color of the text to Yxy 42.8365, 0.2511, 0.4235 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(2, 199, 143)` looks like.

```
.text, #text, p{  
    color:rgb(2, 199, 143)  
}
```

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(2, 199, 143) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(2, 199, 143) }
```

Border

The CSS property to change the border of an element to Yxy 42.8365, 0.2511, 0.4235 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(2, 199, 143) }
```

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

```
.border{ border-color:rgb(2, 199, 143) }
```

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

Here you see how a box with a 4 pixel rgb(2, 199, 143) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(2, 199, 143); -webkit-box-  
shadow:4px 4px 4px 4px rgb(2, 199, 143);  
box-shadow:4px 4px 4px 4px rgb(2, 199,  
143) }
```


Background

The CSS property to change the background color of an element to Yxy 42.8365, 0.2511, 0.4235 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(2, 199, 143) }
```

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

```
.background{ background-color: rgb(2, 199,  
143) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor