

# Converting Colors

$Y_{xy}(41.6755, 0.1832, 0.3913)$

Have a look what the booklet for  
Yxy(41.6755, 0.1832, 0.3913)  
contains.

<b>Yxy(46.6029, 0.2396, 0.3827)</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(46.6029, 0.2396, 0.3827)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CDAB
RGB	0, 205, 171
RGB Percent	0%, 80%, 67%
CMY	1.0000, 0.1960, 0.3293
CMYK	1.00, 0.00, 0.17, 0.20
HSL	170°, 100%, 40%
HSV	170°, 100%, 80%
XYZ	29.1770, 46.6029, 45.9940
YIQ	139.8290, -111.2660, -54.0340

# Conversions

## Conversions Part 2

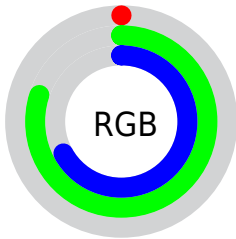
Format	Color
<b>RYB</b>	0, 112, 205
Decimal	52651
CIELab	73.94, -50.36, 5.00
CIELCh	74, 50.608, 174.334
Yxy	46.6029, 0.2396, 0.3827
Android (android.graphics.Color)	4278242731 (0xFF00CDAB)
YUV	139.8290, 15.3673, -122.6300
Hunter-Lab	68.2663, -43.1751, 7.8401

# Details

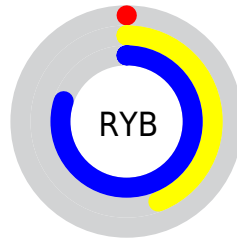
The Yxy color **46.6029, 0.2396, 0.3827** is a dark color, and the websafe version is hex **33CC99**. The color can be described as dark washed spring green. A complement of this color would be **13.0961, 0.6172, 0.3174**, and the grayscale version is **26.1306, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.8946, 0.2510, 0.3641**, and **23.1446, 0.2431, 0.3953** is the 20% darker color. If you saturate the color by 10%, you get **46.6088, 0.2396, 0.3827**, and if you desaturate by 10%, it is **46.8942, 0.2396, 0.3768**.

# Distribution



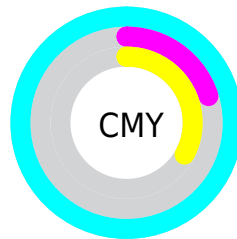
- Red (0%)
- Green (80%)
- Blue (67%)



- Red (0%)
- Yellow (44%)
- Blue (80%)



- Cyan (100%)
- Magenta (0%)
- Yellow (17%)
- Black (20%)




- Cyan (100%)
- Magenta (20%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.6029, 0.2396, 0.3827 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 46.6029, 0.2396, 0.3827 by changing the saturation by 10% instead.





 46.6029, 0.2396,  
0.3827


 46.6029, 0.2396,  
0.3827


373.2272, 0.2761,  
0.3553


 32.7218, 0.2305,  
0.3897


 85.1206, 0.2528,  
0.3727


 21.9134, 0.2190,  
0.3987


 110.5260, 0.2578,  
0.3689

 13.7933, 0.2037,  
0.4108


 140.5416, 0.2620,  
0.3658

 7.9771, 0.1828,  
0.4278

 175.5519, 0.2657,  
0.3631

 4.0803, 0.1526,  
0.4535

 215.9412, 0.2688,  
0.3607

 1.7186, 0.0711,  
0.5154

262.0939, 0.2716,

 0.4356, 0.0000,

0.3587

0.7770

314.3945, 0.2740,  
0.3569

■ 0.0000, 0.0000,  
0.0000

■ 46.6029, 0.2396,  
0.3827

■ 46.6029, 0.2396,  
0.3827

■ 46.6088, 0.2396,  
0.3827

■ 46.8942, 0.2396,  
0.3768

■ 47.3463, 0.2410,  
0.3709

■ 48.0211, 0.2444,  
0.3650

■ 48.9484, 0.2496,  
0.3591

■ 50.1537, 0.2568,  
0.3533

■ 51.6591, 0.2656,  
0.3478

■ 53.4846, 0.2759,  
0.3426

■ 55.6483, 0.2874,  
0.3376

■ 58.1672, 0.2997,  
0.3331

# Harmonies

## Analogous

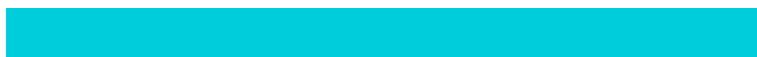
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



46.6029, 0.3008, 0.4431



46.6029, 0.2396, 0.3827



46.6029, 0.2006, 0.3087

# Triad

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



46.6029, 0.2396, 0.3827



46.6029, 0.2477, 0.2227



46.6029, 0.4527, 0.3822

# Complementary

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



46.6029, 0.2396, 0.3827



13.0961, 0.6172, 0.3174

# 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.



46.6029, 0.4384, 0.3292



46.6029, 0.2396, 0.3827



46.6029, 0.3120, 0.2426

# Square

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



46.6029, 0.2396, 0.3827



46.6029, 0.2056, 0.2249



46.6029, 0.3842, 0.2802



46.6029, 0.4252, 0.4305



# Rectangle

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



46.6029, 0.2396, 0.3827



46.6029, 0.1901, 0.2685



46.6029, 0.3842, 0.2802



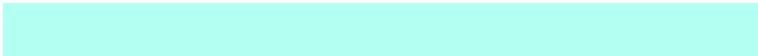
46.6029, 0.4529, 0.3645

# Sweetspot

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



46.6088, 0.2396, 0.3827



87.4740, 0.2755, 0.3427



44.0108, 0.3048, 0.5962



18.4376, 0.2710, 0.3450



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.



46.6088, 0.2396, 0.3827



76.3098, 0.2398, 0.3834



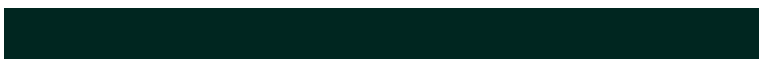
22.2071, 0.1932, 0.2153



12.6939, 0.3005, 0.3329



29.0244, 0.2394, 0.3818



1.5061, 0.2362, 0.3703



# Inverse Universe

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



13.0961, 0.6172, 0.3174



21.4292, 0.6195, 0.3187



17.1558, 0.5890, 0.3706



11.2435, 0.3264, 0.3252



8.1614, 0.6144, 0.3158

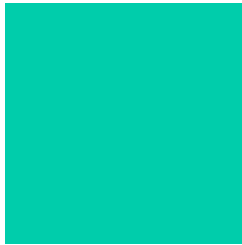


0.4307, 0.5641, 0.2881



# Previews

## White Background



This preview shows how the Yxy color 46.6029, 0.2396, 0.3827 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 46.6029, 0.2396, 0.3827 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

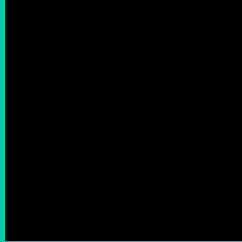
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

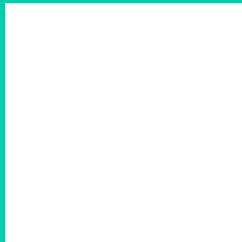
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.6029, 0.2396, 0.3827**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.6029, 0.2396, 0.3827.



This preview shows how white text looks on a background with the Yxy color 46.6029, 0.2396, 0.3827.

# 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

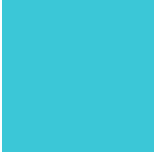
46.6029, 0.2396, 0.3827

### Protanopia

45.9300, 0.3388, 0.3579

### Deuteranopia

45.6286, 0.3318, 0.3240



## Tritanopia

46.6830, 0.2259, 0.3058

# Trichromacy



## Original Color

46.6029, 0.2396, 0.3827



## Protanomaly

43.0326, 0.2787, 0.3683



## Deuteranomaly

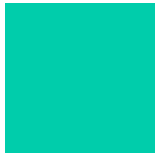
42.3051, 0.2749, 0.3437



## Tritanomaly

46.3089, 0.2292, 0.3318

# Monochromacy



## Original Color

46.6029, 0.2396, 0.3827



## Achromatopsia

26.2251, 0.3127, 0.3290



## Achromatomaly

30.9091, 0.2614, 0.3515

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.6029, 0.2396, 0.3827 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(0, 205, 171)` looks like.

```
.text, #text, p{  
    color:rgb(0, 205, 171)  
}
```

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(0, 205, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 205, 171) }
```

## Border

The CSS property to change the border of an element to Yxy 46.6029, 0.2396, 0.3827 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(0, 205, 171) }
```

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

```
.border{ border-color:rgb(0, 205, 171) }
```

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

Here you see how a box with a 4 pixel rgb(0, 205, 171) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 205, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 205, 171);  
box-shadow:4px 4px 4px 4px rgb(0, 205,  
171) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.6029, 0.2396, 0.3827 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 205, 171) }
```

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

```
.background{ background-color: rgb(0, 205,  
171) }
```

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