

# Converting Colors

$Y_{xy}(47.2190, 0.2437, 0.3829)$

Have a look what the booklet for  
Yxy(47.2190, 0.2437, 0.3829)  
contains.

<b>Yxy(46.9962, 0.2435, 0.3822)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(46.9962, 0.2435, 0.3822)**

# Conversions

## Conversions Part 1

Format	Color
Hex	25CDAB
RGB	37, 205, 171
RGB Percent	15%, 80%, 67%
CMY	0.8555, 0.1960, 0.3294
CMYK	0.82, 0.00, 0.17, 0.20
HSL	168°, 70%, 47%
HSV	168°, 82%, 80%
XYZ	29.9413, 46.9962, 46.0248
YIQ	150.8920, -89.2140, -46.1900

# Conversions

## Conversions Part 2

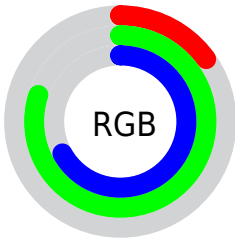
Format	Color
<a href="#">RYB</a>	<a href="#">37, 130, 205</a>
Decimal	<a href="#">2477483</a>
CIELab	<a href="#">74.19, -48.53, 5.40</a>
CIELCh	<a href="#">74, 48.827, 173.653</a>
Yxy	<a href="#">46.9962, 0.2435, 0.3822</a>
Android (android.graphics.Color)	<a href="#">4280667563 (0xFF25CDAB)</a>
YUV	<a href="#">150.8920, 9.9132, -99.8833</a>
Hunter-Lab	<a href="#">68.5538, -42.0080, 8.1822</a>

# Details

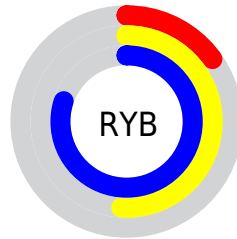
The Yxy color **46.9962, 0.2435, 0.3822** is a dark color, and the websafe version is hex **33CC99**. The color can be described as middle muted spring green. A complement of this color would be **14.7475, 0.5495, 0.3005**, and the grayscale version is **30.8670, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.5217, 0.2543, 0.3638**, and **23.1446, 0.2431, 0.3953** is the 20% darker color. If you saturate the color by 10%, you get **46.5651, 0.2427, 0.3896**, and if you desaturate by 10%, it is **47.6483, 0.2462, 0.3748**.

# Distribution



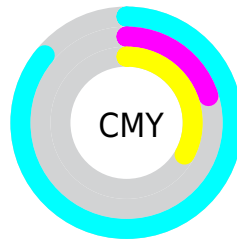
- Red (15%)
- Green (80%)
- Blue (67%)



- Red (15%)
- Yellow (51%)
- Blue (80%)



- Cyan (82%)
- Magenta (0%)
- Yellow (17%)
- Black (20%)




- Cyan (86%)
- Magenta (20%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.9962, 0.2435, 0.3822 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 46.9962, 0.2435, 0.3822 by changing the saturation by 10% instead.





 46.9962, 0.2435,  
0.3822

 46.9962, 0.2435,  
0.3822


374.7994, 0.2781,  
0.3551


 33.0327, 0.2349,  
0.3891


 85.7080, 0.2560,  
0.3722


 22.1515, 0.2239,  
0.3981


 111.2249, 0.2608,  
0.3685


 13.9682, 0.2094,  
0.4101


 141.3619, 0.2648,  
0.3654

 8.0986, 0.1895,  
0.4272

 176.5031, 0.2682,  
0.3627

 4.1581, 0.1606,  
0.4529

 217.0331, 0.2712,  
0.3604

 1.7624, 0.0893,  
0.5105

263.3362, 0.2738,

 0.4636, 0.0000,

0.3584

0.7845

315.7968, 0.2761,  
0.3566

■ 0.0000, 0.0000,  
0.0000

■ 46.9962, 0.2435,  
0.3822

■ 46.9962, 0.2435,  
0.3822

■ 46.5651, 0.2427,  
0.3896

■ 47.6483, 0.2462,  
0.3748

■ 46.3312, 0.2432,  
0.3954

■ 48.5472, 0.2508,  
0.3675

■ 49.7208, 0.2573,  
0.3603

■ 51.1918, 0.2655,  
0.3534

■ 52.9807, 0.2752,  
0.3469

■ 55.1059, 0.2860,  
0.3408

■ 57.5846, 0.2978,  
0.3351

■ 60.4328, 0.3102,  
0.3300

■ 63.6654, 0.3229,  
0.3253

# Harmonies

## Analogous

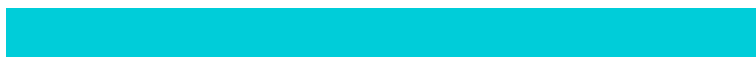
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



46.9962, 0.3031, 0.4391



46.9962, 0.2435, 0.3822



46.9962, 0.2050, 0.3112

# Triad

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



46.9962, 0.2435, 0.3822



46.9962, 0.2489, 0.2259



46.9962, 0.4478, 0.3798

# Complementary

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



46.9962, 0.2435, 0.3822



14.7475, 0.5495, 0.3005

# 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.



46.9962, 0.4328, 0.3284



46.9962, 0.2435, 0.3822



46.9962, 0.3106, 0.2447

# Square

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



46.9962, 0.2435, 0.3822



46.9962, 0.2085, 0.2288



46.9962, 0.3801, 0.2810



46.9962, 0.4224, 0.4264



# Rectangle

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



46.9962, 0.2435, 0.3822



46.9962, 0.1943, 0.2721



46.9962, 0.3801, 0.2810



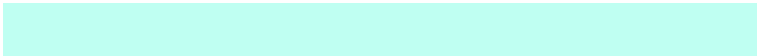
46.9962, 0.4475, 0.3627

# Sweetspot

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



46.9980, 0.2435, 0.3822



89.0462, 0.2823, 0.3427



45.2272, 0.3144, 0.5702



18.7949, 0.2785, 0.3449



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.



46.9980, 0.2435, 0.3822



75.9352, 0.2432, 0.3948



29.0364, 0.2077, 0.2524



12.6867, 0.3010, 0.3337



28.8541, 0.2429, 0.3943



1.4987, 0.2389, 0.3800



# Inverse Universe

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



14.7475, 0.5495, 0.3005



21.6526, 0.6060, 0.3124



19.5312, 0.5497, 0.3738



11.2501, 0.3259, 0.3243



8.1927, 0.6052, 0.3107

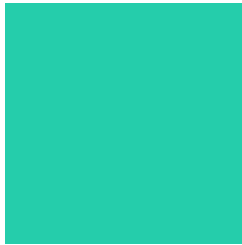


0.4338, 0.5505, 0.2806



# Previews

## White Background



This preview shows how the Yxy color 46.9962, 0.2435, 0.3822 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 46.9962, 0.2435, 0.3822 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

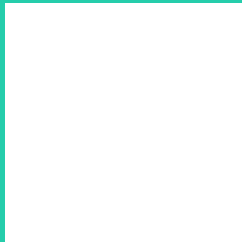
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.9962, 0.2435, 0.3822**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.9962, 0.2435, 0.3822.

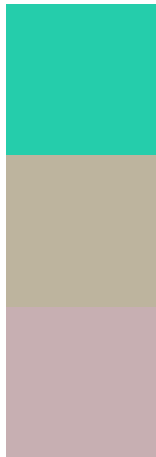


This preview shows how white text looks on a background with the Yxy color 46.9962, 0.2435, 0.3822.

# 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

46.9962, 0.2435, 0.3822

### Protanopia

45.9300, 0.3388, 0.3579

### Deuteranopia

46.0164, 0.3317, 0.3253



## Tritanopia

46.9821, 0.2284, 0.3059

# Trichromacy



## Original Color

46.9962, 0.2435, 0.3822



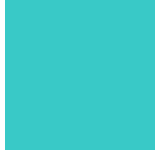
## Protanomaly

44.1079, 0.2885, 0.3673



## Deuteranomaly

43.7884, 0.2843, 0.3448



## Tritanomaly

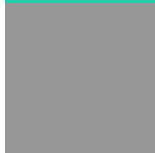
46.7667, 0.2333, 0.3317

# Monochromacy



## Original Color

46.9962, 0.2435, 0.3822



## Achromatopsia

30.9469, 0.3127, 0.3290



## Achromatomaly

34.8457, 0.2717, 0.3501

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.9962, 0.2435, 0.3822 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(37, 205, 171)` looks like.

```
.text, #text, p{  
  color:rgb(37, 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(37, 205, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(37, 205, 171) }
```

## Border

The CSS property to change the border of an element to Yxy 46.9962, 0.2435, 0.3822 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(37, 205, 171) }
```

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

```
.border{ border-color:rgb(37, 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(37, 205, 171) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(37, 205, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(37, 205, 171);  
box-shadow:4px 4px 4px 4px rgb(37, 205,  
171) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.9962, 0.2435, 0.3822 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(37, 205, 171) }
```

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

```
.background{ background-color: rgb(37, 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