

Converting Colors

$Y_{xy}(46.7428, 0.2366, 0.3749)$

Have a look what the booklet for
Yxy(46.7428, 0.2366, 0.3749)
contains.

Yxy(46.7972, 0.2373, 0.3744)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(46.7972, 0.2373, 0.3744)

Conversions

Conversions Part 1

Format	Color
Hex	00CDB0
RGB	0, 205, 176
RGB Percent	0%, 80%, 69%
CMY	1.0000, 0.1960, 0.3099
CMYK	1.00, 0.00, 0.14, 0.20
HSL	172°, 100%, 40%
HSV	172°, 100%, 80%
XYZ	29.6607, 46.7972, 48.5346
YIQ	140.3990, -112.8710, -52.4790

Conversions

Conversions Part 2

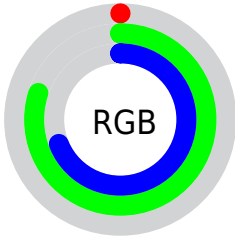
Format	Color
RYB	0, 110, 205
Decimal	52656
CIELab	74.06, -49.04, 2.50
CIELCh	74, 49.108, 177.085
Yxy	46.7972, 0.2373, 0.3744
Android (android.graphics.Color)	4278242736 (0xFF00CDB0)
YUV	140.3990, 17.5513, -123.1299
Hunter-Lab	68.4085, -42.3203, 5.8207

Details

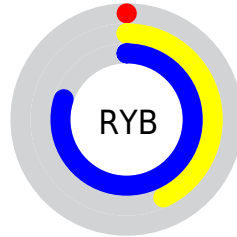
The Yxy color **46.7972, 0.2373, 0.3744** is a dark color, and the websafe version is hex **33CC99**. The color can be described as dark washed spring green. A complement of this color would be **13.0698, 0.6223, 0.3202**, and the grayscale version is **26.3543, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.2893, 0.2488, 0.3565**, and **23.2679, 0.2400, 0.3839** is the 20% darker color. If you saturate the color by 10%, you get **46.8027, 0.2373, 0.3744**, and if you desaturate by 10%, it is **47.0729, 0.2375, 0.3695**.

Distribution



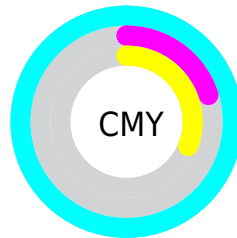
- Red (0%)
- Green (80%)
- Blue (69%)



- Red (0%)
- Yellow (43%)
- Blue (80%)



- Cyan (100%)
- Magenta (0%)
- Yellow (14%)
- Black (20%)





- Cyan (100%)
- Magenta (20%)
- Yellow (31%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 46.7972, 0.2373, 0.3744 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 46.7972, 0.2373, 0.3744 by changing the saturation by 10% instead.


 46.7972, 0.2373,
0.3744


 46.7972, 0.2373,
0.3744

374.0045, 0.2747,
0.3516

 32.8754, 0.2281,
0.3801


 85.4108, 0.2508,
0.3661

 22.0310, 0.2164,
0.3874


 110.8714, 0.2559,
0.3630

 13.8797, 0.2010,
0.3971


 140.9470, 0.2602,
0.3604

 8.0370, 0.1800,
0.4106

 176.0221, 0.2640,
0.3581

 4.1186, 0.1501,
0.4303

 216.4809, 0.2672,
0.3561

 1.7402, 0.0772,
0.4760

262.7080, 0.2700,

 0.4495, 0.0000,

0.3544

0.5881

315.0877, 0.2725,
0.3529

■ 0.0000, 0.0000,
0.0000

■ 46.7972, 0.2373,
0.3744

■ 46.7972, 0.2373,
0.3744

■ 46.8027, 0.2373,
0.3744

■ 47.0729, 0.2375,
0.3695

■ 47.5089, 0.2391,
0.3645

■ 48.1667, 0.2427,
0.3595

■ 49.0762, 0.2481,
0.3545

■ 50.2627, 0.2554,
0.3497

■ 51.7485, 0.2645,
0.3450

■ 53.5533, 0.2750,
0.3405

■ 55.6955, 0.2867,
0.3364

■ 58.1919, 0.2994,
0.3325

Harmonies

Analogous

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



46.7972, 0.2955, 0.4353



46.7972, 0.2373, 0.3744



46.7972, 0.2016, 0.3036

Triad

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



46.7972, 0.2373, 0.3744



46.7972, 0.2546, 0.2264



46.7972, 0.4477, 0.3858

Complementary

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



46.7972, 0.2373, 0.3744



13.0698, 0.6223, 0.3202

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.



46.7972, 0.4375, 0.3342



46.7972, 0.2373, 0.3744



46.7972, 0.3186, 0.2476

Square

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



46.7972, 0.2373, 0.3744



46.7972, 0.2112, 0.2266



46.7972, 0.3880, 0.2857



46.7972, 0.4181, 0.4315

Rectangle

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



46.7972, 0.2373, 0.3744



46.7972, 0.1929, 0.2660



46.7972, 0.3880, 0.2857



46.7972, 0.4491, 0.3688

Sweetspot

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



46.8027, 0.2373, 0.3744



87.5861, 0.2746, 0.3407



43.9562, 0.3040, 0.5968



18.4647, 0.2699, 0.3426



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.



46.8027, 0.2373, 0.3744



76.6288, 0.2375, 0.3750



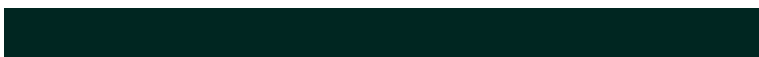
21.2543, 0.1915, 0.2093



12.6987, 0.3002, 0.3323



29.1431, 0.2371, 0.3737



1.5111, 0.2344, 0.3640

Inverse Universe

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



13.0698, 0.6223, 0.3202



21.3880, 0.6244, 0.3213



17.5840, 0.5846, 0.3740



11.2391, 0.3268, 0.3257



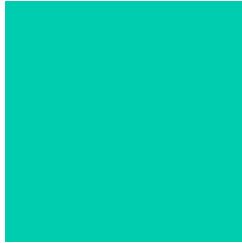
8.1438, 0.6197, 0.3187



0.4287, 0.5737, 0.2934

Previews

White Background



This preview shows how the Yxy color 46.7972, 0.2373, 0.3744 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 46.7972, 0.2373, 0.3744 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

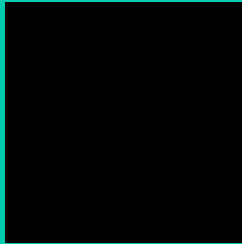
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

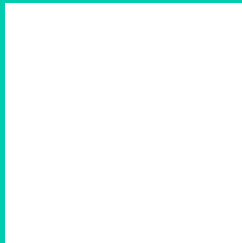
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 46.7972, 0.2373, 0.3744

Background



This preview shows how black text looks on a background with the Yxy color 46.7972, 0.2373, 0.3744.

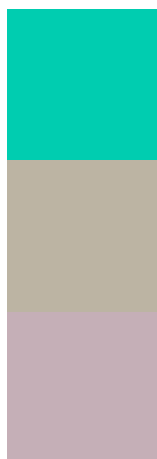


This preview shows how white text looks on a background with the Yxy color 46.7972, 0.2373, 0.3744.

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

46.7972, 0.2373, 0.3744

Protanopia

45.9782, 0.3337, 0.3513

Deuteranopia

45.9492, 0.3256, 0.3190



Tritanopia

46.6746, 0.2250, 0.3044

Trichromacy



Original Color

46.7972, 0.2373, 0.3744



Protanomaly

43.2154, 0.2754, 0.3605



Deuteranomaly

42.7731, 0.2704, 0.3377



Tritanomaly

46.3654, 0.2280, 0.3288

Monochromacy



Original Color

46.7972, 0.2373, 0.3744



Achromatopsia

26.2251, 0.3127, 0.3290



Achromatomaly

30.9747, 0.2600, 0.3480

CSS Examples

Text

The CSS property to change the color of the text to Yxy 46.7972, 0.2373, 0.3744 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, 176)` looks like.

```
.text, #text, p{  
    color:rgb(0, 205, 176)  
}
```

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, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 205, 176) }
```

Border

The CSS property to change the border of an element to Yxy 46.7972, 0.2373, 0.3744 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, 176) }
```

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

```
.border{ border-color:rgb(0, 205, 176) }
```

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, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 205, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 205, 176);  
box-shadow:4px 4px 4px 4px rgb(0, 205,  
176) }
```


Background

The CSS property to change the background color of an element to Yxy 46.7972, 0.2373, 0.3744 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, 176) }
```

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

```
.background{ background-color: rgb(0, 205,  
176) }
```

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