

Converting Colors

$Yxy(46.9817, 0.2420, 0.3699)$

Have a look what the booklet for
Yxy(46.9817, 0.2420, 0.3699)
contains.

Yxy(46.9644, 0.2423, 0.3707)	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(46.9644, 0.2423, 0.3707)

Conversions

Conversions Part 1

Format	Color
Hex	2FCCB1
RGB	47, 204, 177
RGB Percent	18%, 80%, 69%
CMY	0.8159, 0.2000, 0.3060
CMYK	0.77, 0.00, 0.13, 0.20
HSL	170°, 63%, 49%
HSV	170°, 77%, 80%
XYZ	30.6973, 46.9644, 49.0295
YIQ	153.9790, -84.9050, -41.6810

Conversions

Conversions Part 2

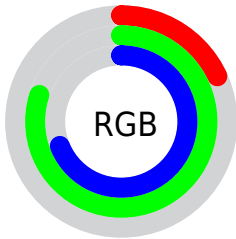
Format	Color
RYB	47, 133, 204
Decimal	3132593
CIELab	74.17, -45.60, 2.16
CIELCh	74, 45.652, 177.282
Yxy	46.9644, 0.2423, 0.3707
Android (android.graphics.Color)	4281322673 (0xFF2FCCB1)
YUV	153.9790, 11.3494, -93.8206
Hunter-Lab	68.5306, -39.9721, 5.5530

Details

The Yxy color **46.9644, 0.2423, 0.3707** 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 **15.3623, 0.5374, 0.3040**, and the grayscale version is **32.2770, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.3251, 0.2535, 0.3549**, and **22.9756, 0.2388, 0.3798** is the 20% darker color. If you saturate the color by 10%, you get **46.4517, 0.2403, 0.3769**, and if you desaturate by 10%, it is **47.7107, 0.2462, 0.3645**.

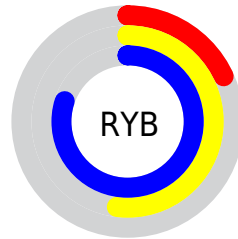
Distribution



Red (18%)

Green (80%)

Blue (69%)



Red (18%)

Yellow (52%)

Blue (80%)

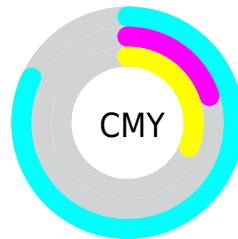


Cyan (77%)

Magenta (0%)

Yellow (13%)

Black (20%)



Cyan (82%)

Magenta (20%)

Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 46.9644, 0.2423, 0.3707 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 46.9644, 0.2423, 0.3707 by changing the saturation by 10% instead.


 46.9644, 0.2423,
0.3707


 46.9644, 0.2423,
0.3707


374.6724, 0.2773,
0.3498


 33.0075, 0.2337,
0.3759


 85.6605, 0.2549,
0.3631

 22.1322, 0.2227,
0.3826


 111.1685, 0.2597,
0.3602


 13.9541, 0.2083,
0.3915

 141.2956, 0.2637,
0.3578

 8.0887, 0.1886,
0.4039

 176.4263, 0.2672,
0.3558

 4.1518, 0.1603,
0.4220

 216.9449, 0.2702,
0.3540

 1.7588, 0.0988,
0.4602

263.2359, 0.2729,

 0.4613, 0.0000,

0.3524

0.5679

315.6836, 0.2752,
0.3510

■ 0.0000, 0.0000,
0.0000

■ 46.9644, 0.2423,
0.3707

■ 46.9644, 0.2423,
0.3707

■ 46.4517, 0.2403,
0.3769

■ 47.7107, 0.2462,
0.3645

■ 46.1298, 0.2401,
0.3830


■ 48.7131, 0.2520,
0.3584

■ 46.0501, 0.2402,
0.3849


■ 49.9974, 0.2596,
0.3525


■ 51.5848, 0.2689,
0.3468

■ 53.4944, 0.2795,
0.3415

 55.7438, 0.2912,
0.3365

 58.3493, 0.3037,
0.3319

 61.3261, 0.3167,
0.3278

 64.6885, 0.3300,
0.3241

Harmonies

Analogous

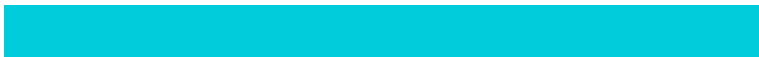
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



46.9644, 0.2968, 0.4266



46.9644, 0.2423, 0.3707



46.9644, 0.2086, 0.3055

Triad

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



46.9644, 0.2423, 0.3707



46.9644, 0.2590, 0.2328



46.9644, 0.4384, 0.3834

Complementary

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



46.9644, 0.2423, 0.3707



15.3623, 0.5374, 0.3040

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.



46.9644, 0.4288, 0.3349



46.9644, 0.2423, 0.3707



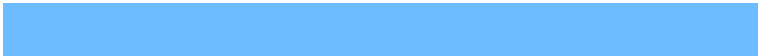
46.9644, 0.3188, 0.2528

Square

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



46.9644, 0.2423, 0.3707



46.9644, 0.2179, 0.2331



46.9644, 0.3831, 0.2890



46.9644, 0.4111, 0.4254

Rectangle

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



46.9644, 0.2423, 0.3707



46.9644, 0.2004, 0.2705



46.9644, 0.3831, 0.2890



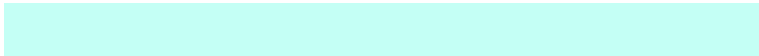
46.9644, 0.4396, 0.3674

Sweetspot

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



46.9662, 0.2423, 0.3707



89.8896, 0.2837, 0.3396



44.9206, 0.3133, 0.5614



18.9625, 0.2795, 0.3415



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.



46.9662, 0.2423, 0.3707



76.5599, 0.2400, 0.3807



28.1654, 0.2092, 0.2489



12.6926, 0.3006, 0.3330



28.9942, 0.2400, 0.3840



1.5047, 0.2367, 0.3720

Inverse Universe

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



15.3623, 0.5374, 0.3040



22.1091, 0.5974, 0.3120



21.5355, 0.5252, 0.3813



11.2447, 0.3263, 0.3250



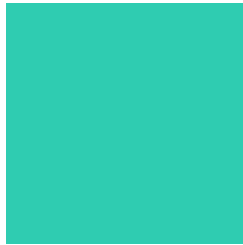
8.1664, 0.6129, 0.3150



0.4313, 0.5617, 0.2868

Previews

White Background



This preview shows how the Yxy color 46.9644, 0.2423, 0.3707 looks on a white background.

Color Contrast Check

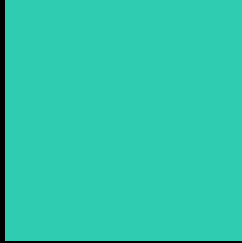
Large Text (above 18pt) WCAG AA × Fail

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 46.9644, 0.2423, 0.3707 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

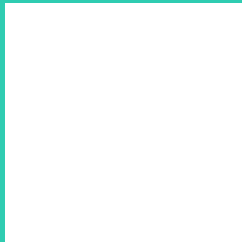
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 46.9644, 0.2423, 0.3707

Background



This preview shows how black text looks on a background with the Yxy color 46.9644, 0.2423, 0.3707.

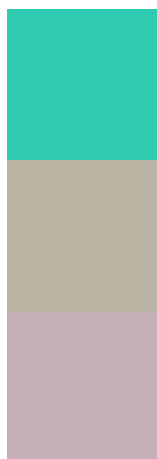


This preview shows how white text looks on a background with the Yxy color 46.9644, 0.2423, 0.3707.

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

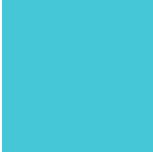
46.9644, 0.2423, 0.3707

Protanopia

46.0142, 0.3329, 0.3500

Deuteranopia

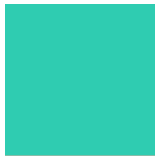
45.9492, 0.3256, 0.3190



Tritanopia

47.0552, 0.2290, 0.3060

Trichromacy



Original Color

46.9644, 0.2423, 0.3707



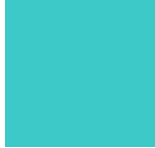
Protanomaly

44.5781, 0.2865, 0.3580



Deuteranomaly

44.2048, 0.2817, 0.3360



Tritanomaly

47.0145, 0.2337, 0.3288

Monochromacy



Original Color

46.9644, 0.2423, 0.3707



Achromatopsia

32.3143, 0.3127, 0.3290



Achromatomaly

35.7585, 0.2733, 0.3448

CSS Examples

Text

The CSS property to change the color of the text to Yxy 46.9644, 0.2423, 0.3707 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(47, 204, 177)` looks like.

```
.text, #text, p{  
  color:rgb(47, 204, 177)  
}
```

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(47, 204, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 204, 177) }
```

Border

The CSS property to change the border of an element to Yxy 46.9644, 0.2423, 0.3707 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(47, 204, 177) }
```

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

```
.border{ border-color:rgb(47, 204, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 204, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 204, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 204, 177);  
box-shadow:4px 4px 4px 4px rgb(47, 204,  
177) }
```


Background

The CSS property to change the background color of an element to Yxy 46.9644, 0.2423, 0.3707 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 204, 177) }
```

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

```
.background{ background-color: rgb(47, 204,  
177) }
```

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