

Converting Colors

$Y_{xy}(31.8786, 0.2431, 0.3951)$

Have a look what the booklet for
Yxy(31.8786, 0.2431, 0.3951)
contains.

Yxy(31.7221, 0.2429, 0.3946)	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(31.7221, 0.2429, 0.3946)

Conversions

Conversions Part 1

Format	Color
Hex	00AD8A
RGB	0, 173, 138
RGB Percent	0%, 68%, 54%
CMY	1.0000, 0.3215, 0.4588
CMYK	1.00, 0.00, 0.20, 0.32
HSL	168°, 100%, 34%
HSV	168°, 100%, 68%
XYZ	19.5269, 31.7221, 29.1416
YIQ	117.2830, -91.8730, -47.5610

Conversions

Conversions Part 2

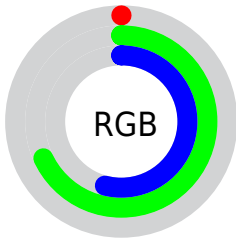
Format	Color
RYB	0, 96, 173
Decimal	44426
CIELab	63.11, -45.97, 7.51
CIELCh	63, 46.581, 170.719
Yxy	31.7221, 0.2429, 0.3946
Android (android.graphics.Color)	4278234506 (0xFF00AD8A)
YUV	117.2830, 10.2135, -102.8572
Hunter-Lab	56.3224, -36.6786, 8.7486

Details

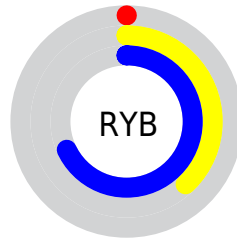
The Yxy color **31.7221, 0.2429, 0.3946** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **9.0068, 0.6058, 0.3111**, and the grayscale version is **17.8728, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.1799, 0.2574, 0.3808**, and **13.8982, 0.2478, 0.4120** is the 20% darker color. If you saturate the color by 10%, you get **31.7264, 0.2429, 0.3946**, and if you desaturate by 10%, it is **31.9514, 0.2428, 0.3873**.

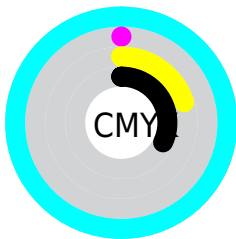
Distribution



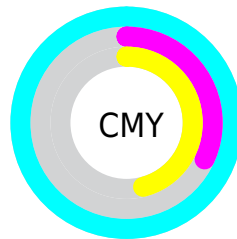
- Red (0%)
- Green (68%)
- Blue (54%)



- Red (0%)
- Yellow (38%)
- Blue (68%)



- Cyan (100%)
- Magenta (0%)
- Yellow (20%)
- Black (32%)





- Cyan (100%)
- Magenta (32%)
- Yellow (46%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 31.7221, 0.2429, 0.3946 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 31.7221, 0.2429, 0.3946 by changing the saturation by 10% instead.


 31.7221, 0.2429,
0.3946


 31.7221, 0.2429,
0.3946

309.8514, 0.2803,
0.3586


 21.1493, 0.2327,
0.4048


 62.3752, 0.2571,
0.3807


 13.2332, 0.2191,
0.4187


 83.2243, 0.2623,
0.3757

 7.5893, 0.2000,
0.4386


 108.2676, 0.2666,
0.3716

 3.8333, 0.1717,
0.4696

 137.8895, 0.2702,
0.3682

 1.5808, 0.0889,
0.5457

 172.4745, 0.2733,
0.3652

 0.3446, 0.0000,
1.0000

 212.4068, 0.2759,

 0.0000, 0.0000,

0.3627

0.0000

258.0710, 0.2783,
0.3605

■ 31.7221, 0.2429,
0.3946

■ 31.7221, 0.2429,
0.3946

■ 31.7264, 0.2429,
0.3946

■ 31.9514, 0.2428,
0.3873

■ 32.2862, 0.2441,
0.3800

■ 32.7729, 0.2473,
0.3727

■ 33.4312, 0.2524,
0.3655

■ 34.2774, 0.2593,
0.3585

■ 35.3262, 0.2678,
0.3518

■ 36.5907, 0.2776,
0.3454

■ 38.0829, 0.2886,
0.3395

■ 39.8139, 0.3004,
0.3340

Harmonies

Analogous

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



31.7221, 0.3084, 0.4537



31.7221, 0.2429, 0.3946



31.7221, 0.1994, 0.3161

Triad

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



31.7221, 0.2429, 0.3946



31.7221, 0.2383, 0.2176



31.7221, 0.4596, 0.3770

Complementary

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



31.7221, 0.2429, 0.3946



9.0068, 0.6058, 0.3111

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.



31.7221, 0.4393, 0.3222



31.7221, 0.2429, 0.3946



31.7221, 0.3028, 0.2356

Square

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



31.7221, 0.2429, 0.3946



31.7221, 0.1979, 0.2226



31.7221, 0.3787, 0.2726



31.7221, 0.4351, 0.4288

Rectangle

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



31.7221, 0.2429, 0.3946



31.7221, 0.1863, 0.2721



31.7221, 0.3787, 0.2726



31.7221, 0.4581, 0.3586

Sweetspot

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



31.7264, 0.2429, 0.3946



65.3949, 0.2771, 0.3457



30.2935, 0.3081, 0.5935



14.0029, 0.2730, 0.3483



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.7264, 0.2429, 0.3946



56.7814, 0.2433, 0.3958



17.4305, 0.1985, 0.2346



9.0439, 0.3012, 0.3336



23.3130, 0.2427, 0.3938



0.6555, 0.2366, 0.3719

Inverse Universe

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



9.0068, 0.6058, 0.3111



16.1038, 0.6095, 0.3131



11.0837, 0.5993, 0.3623



8.0409, 0.3256, 0.3244



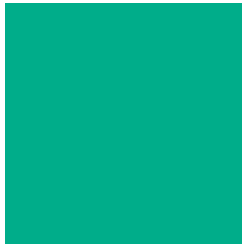
6.6228, 0.6034, 0.3098



0.1917, 0.5246, 0.2664

Previews

White Background



This preview shows how the Yxy color 31.7221, 0.2429, 0.3946 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 31.7221, 0.2429, 0.3946 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 31.7221, 0.2429, 0.3946

Background



This preview shows how black text looks on a background with the Yxy color 31.7221, 0.2429, 0.3946.

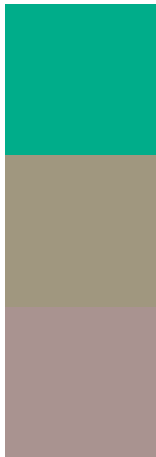


This preview shows how white text looks on a background with the Yxy color 31.7221, 0.2429, 0.3946.

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

31.7221, 0.2429, 0.3946

Protanopia

31.1391, 0.3455, 0.3660

Deuteranopia

31.3161, 0.3390, 0.3335



Tritanopia

31.7037, 0.2270, 0.3052

Trichromacy



Original Color

31.7221, 0.2429, 0.3946



Protanomaly

29.2597, 0.2847, 0.3790



Deuteranomaly

28.9181, 0.2805, 0.3534



Tritanomaly

31.4159, 0.2310, 0.3358

Monochromacy



Original Color

31.7221, 0.2429, 0.3946



Achromatopsia

17.7888, 0.3127, 0.3290



Achromatomaly

20.8278, 0.2626, 0.3536

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.7221, 0.2429, 0.3946 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, 173, 138)` looks like.

```
.text, #text, p{  
    color:rgb(0, 173, 138)  
}
```

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, 173, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 173, 138) }
```

Border

The CSS property to change the border of an element to Yxy 31.7221, 0.2429, 0.3946 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, 173, 138) }
```

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

```
.border{ border-color:rgb(0, 173, 138) }
```

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

Here you see how a box with a 4 pixel rgb(0, 173, 138) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 173, 138); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 173, 138);  
box-shadow:4px 4px 4px 4px rgb(0, 173,  
138) }
```


Background

The CSS property to change the background color of an element to Yxy 31.7221, 0.2429, 0.3946 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 173, 138) }
```

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

```
.background{ background-color: rgb(0, 173,  
138) }
```

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