

Converting Colors

$Y_{xy}(33.8682, 0.2284, 0.3421)$

Have a look what the booklet for
Yxy(33.8682, 0.2284, 0.3421)
contains.

Yxy(33.8778, 0.2285, 0.3427)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(33.8778, 0.2285, 0.3427)

Conversions

Conversions Part 1

Format	Color
Hex	00B0A8
RGB	0, 176, 168
RGB Percent	0%, 69%, 66%
CMY	1.0000, 0.3098, 0.3412
CMYK	1.00, 0.00, 0.05, 0.31
HSL	177°, 100%, 35%
HSV	177°, 100%, 69%
XYZ	22.5885, 33.8778, 42.3893
YIQ	122.4640, -102.3280, -39.8000

Conversions

Conversions Part 2

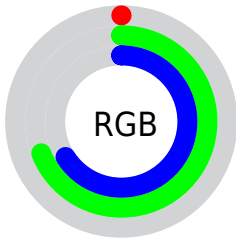
Format	Color
RYB	0, 90, 176
Decimal	45224
CIELab	64.87, -38.85, -6.61
CIELCh	65, 39.409, 189.661
Yxy	33.8778, 0.2285, 0.3427
Android (android.graphics.Color)	4278235304 (0xFF00B0A8)
YUV	122.4640, 22.4492, -107.4009
Hunter-Lab	58.2046, -32.5845, -2.4365

Details

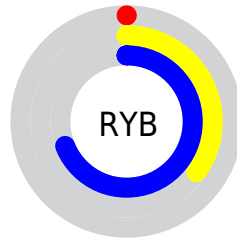
The Yxy color **33.8778, 0.2285, 0.3427** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **9.2489, 0.6350, 0.3272**, and the grayscale version is **19.5736, 0.3127, 0.3290**.

A 20% lighter version of the original color is **65.5823, 0.2445, 0.3404**, and **15.4269, 0.2294, 0.3457** is the 20% darker color. If you saturate the color by 10%, you get **33.8816, 0.2285, 0.3427**, and if you desaturate by 10%, it is **34.0364, 0.2297, 0.3412**.

Distribution



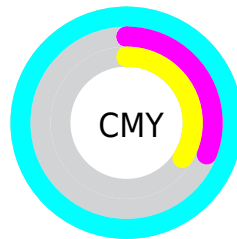
- Red (0%)
- Green (69%)
- Blue (66%)



- Red (0%)
- Yellow (35%)
- Blue (69%)



- Cyan (100%)
- Magenta (0%)
- Yellow (5%)
- Black (31%)





- Cyan (100%)
- Magenta (31%)
- Yellow (34%)


Brightness & Saturation Gradients


These gradients show how the Yxy color 33.8778, 0.2285, 0.3427 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 33.8778, 0.2285, 0.3427 by changing the saturation by 10% instead.

 33.8778, 0.2285,
0.3427


 33.8778, 0.2285,
0.3427

 319.5868, 0.2719,
0.3365


 22.7997, 0.2174,
0.3440


 65.7436, 0.2445,
0.3406

 14.4457, 0.2030,
0.3454


 87.3001, 0.2504,
0.3398


 8.4313, 0.1836,
0.3468


 113.1182, 0.2554,
0.3391

 4.3722, 0.1565,
0.3478

 143.5824, 0.2597,
0.3384

 1.8838, 0.1137,
0.3479

 179.0769, 0.2634,
0.3379

 0.5386, 0.0000,
0.3388

 219.9862, 0.2666,

 0.0000, 0.0000,

0.3374

0.0000

266.6947, 0.2694,
0.3369

■ 33.8778, 0.2285,
0.3427

■ 33.8778, 0.2285,
0.3427

■ 33.8816, 0.2285,
0.3427

■ 34.0364, 0.2297,
0.3412

■ 34.3026, 0.2322,
0.3398

■ 34.7237, 0.2365,
0.3383

■ 35.3198, 0.2427,
0.3368

■ 36.1083, 0.2507,
0.3353

■ 37.1044, 0.2605,
0.3339

■ 38.3217, 0.2718,
0.3325

■ 39.7726, 0.2845,
0.3313

■ 41.4688, 0.2982,
0.3301

Harmonies

Analogous

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



33.8778, 0.2741, 0.4036



33.8778, 0.2285, 0.3427



33.8778, 0.2058, 0.2846

Triad

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



33.8778, 0.2285, 0.3427



33.8778, 0.2832, 0.2417



33.8778, 0.4269, 0.4001

Complementary

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



33.8778, 0.2285, 0.3427



9.2489, 0.6350, 0.3272

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.



33.8778, 0.4329, 0.3546



33.8778, 0.2285, 0.3427



33.8778, 0.3449, 0.2682

Square

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



33.8778, 0.2285, 0.3427



33.8778, 0.2349, 0.2335



33.8778, 0.4020, 0.3081



33.8778, 0.3891, 0.4336

Rectangle

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



33.8778, 0.2285, 0.3427



33.8778, 0.2047, 0.2569



33.8778, 0.4020, 0.3081



33.8778, 0.4329, 0.3856

Sweetspot

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



33.8816, 0.2285, 0.3427



69.3674, 0.2712, 0.3326



31.1116, 0.3011, 0.5991



14.8275, 0.2664, 0.3332



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290

Same Dimension

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



33.8816, 0.2285, 0.3427



61.4325, 0.2286, 0.3430



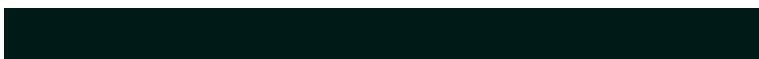
11.6485, 0.1821, 0.1753



9.6247, 0.2992, 0.3300



24.8587, 0.2285, 0.3425



0.7842, 0.2273, 0.3384

Inverse Universe

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



9.2489, 0.6350, 0.3272



16.7633, 0.6364, 0.3280



14.8529, 0.5548, 0.3977



8.5113, 0.3280, 0.3280



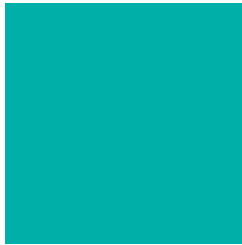
6.7876, 0.6341, 0.3267



0.2156, 0.6099, 0.3133

Previews

White Background



This preview shows how the Yxy color 33.8778, 0.2285, 0.3427 looks on a white background.

Color Contrast Check

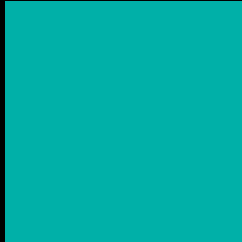
Large Text (above 18pt) WCAG AA × Fail

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 33.8778, 0.2285, 0.3427 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

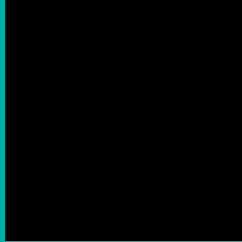
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

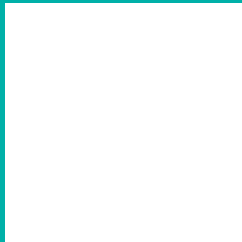
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 33.8778, 0.2285, 0.3427

Background



This preview shows how black text looks on a background with the Yxy color 33.8778, 0.2285, 0.3427.

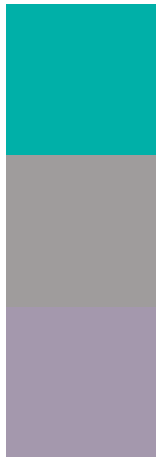


This preview shows how white text looks on a background with the Yxy color 33.8778, 0.2285, 0.3427.

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

33.8778, 0.2285, 0.3427

Protanopia

33.5482, 0.3157, 0.3290

Deuteranopia

33.3661, 0.3053, 0.2989



Tritanopia

33.9063, 0.2232, 0.3057

Trichromacy



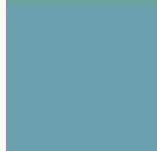
Original Color

33.8778, 0.2285, 0.3427



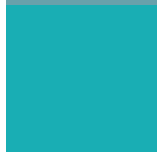
Protanomaly

31.4992, 0.2630, 0.3339



Deuteranomaly

31.3731, 0.2570, 0.3125



Tritanomaly

33.7741, 0.2243, 0.3186

Monochromacy



Original Color

33.8778, 0.2285, 0.3427



Achromatopsia

19.4618, 0.3127, 0.3290



Achromatomaly

22.8298, 0.2562, 0.3347

CSS Examples

Text

The CSS property to change the color of the text to Yxy 33.8778, 0.2285, 0.3427 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, 176, 168)` looks like.

```
.text, #text, p{  
    color:rgb(0, 176, 168)  
}
```

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, 176, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 176, 168) }
```

Border

The CSS property to change the border of an element to Yxy 33.8778, 0.2285, 0.3427 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, 176, 168) }
```

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

```
.border{ border-color:rgb(0, 176, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 176, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 176, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 176, 168);  
box-shadow:4px 4px 4px 4px rgb(0, 176,  
168) }
```


Background

The CSS property to change the background color of an element to Yxy 33.8778, 0.2285, 0.3427 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 176, 168) }
```

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

```
.background{ background-color: rgb(0, 176,  
168) }
```

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