

Converting Colors

$Y_{xy}(31.0024, 0.2033, 0.3698)$

Have a look what the booklet for
Yxy(31.0024, 0.2033, 0.3698)
contains.

Yxy(32.9930, 0.2352, 0.3667)	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(32.9930, 0.2352, 0.3667)

Conversions

Conversions Part 1

Format	Color
Hex	00AF9A
RGB	0, 175, 154
RGB Percent	0%, 69%, 60%
CMY	0.9999, 0.3137, 0.3961
CMYK	1.00, 0.00, 0.12, 0.31
HSL	173°, 100%, 34%
HSV	173°, 100%, 69%
XYZ	21.1616, 32.9930, 35.8181
YIQ	120.2810, -97.5590, -43.6310

Conversions

Conversions Part 2

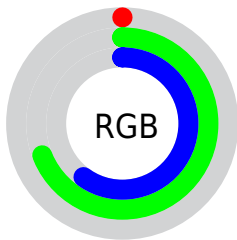
Format	Color
RYB	0, 93, 175
Decimal	44954
CIELab	64.16, -42.45, 0.14
CIELCh	64, 42.452, 179.817
Yxy	32.9930, 0.2352, 0.3667
Android (android.graphics.Color)	4278235034 (0xFF00AF9A)
YUV	120.2810, 16.6235, -105.4864
Hunter-Lab	57.4395, -34.7571, 3.2356

Details

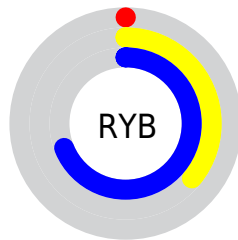
The Yxy color **32.9930, 0.2352, 0.3667** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **9.1690, 0.6245, 0.3214**, and the grayscale version is **18.8479, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.1388, 0.2503, 0.3593**, and **14.6540, 0.2374, 0.3747** is the 20% darker color. If you saturate the color by 10%, you get **32.9941, 0.2352, 0.3667**, and if you desaturate by 10%, it is **33.1888, 0.2358, 0.3626**.

Distribution



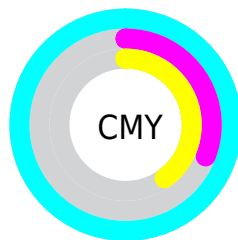
- Red (0%)
- Green (69%)
- Blue (60%)



- Red (0%)
- Yellow (36%)
- Blue (69%)



- Cyan (100%)
- Magenta (0%)
- Yellow (12%)
- Black (31%)





- Cyan (100%)
- Magenta (31%)
- Yellow (40%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 32.9930, 0.2352, 0.3667 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 32.9930, 0.2352, 0.3667 by changing the saturation by 10% instead.


 32.9930, 0.2352,
0.3667


 32.9930, 0.2352,
0.3667


 315.6182, 0.2758,
0.3470


 22.1211, 0.2245,
0.3719


 64.3646, 0.2504,
0.3593

 13.9459, 0.2105,
0.3787


 85.6331, 0.2559,
0.3566


 8.0830, 0.1914,
0.3880


 111.1359, 0.2606,
0.3543

 4.1481, 0.1640,
0.4014

 141.2573, 0.2645,
0.3524

 1.7568, 0.1103,
0.4277

 176.3819, 0.2679,
0.3508

 0.4600, 0.0000,
0.4835

 216.8940, 0.2709,

 0.0000, 0.0000,

0.3493

0.0000

263.1779, 0.2735,
0.3481

■ 32.9930, 0.2352,
0.3667

■ 32.9930, 0.2352,
0.3667

■ 32.9941, 0.2352,
0.3667

■ 33.1888, 0.2358,
0.3626

■ 33.4943, 0.2377,
0.3585

■ 33.9537, 0.2415,
0.3543

■ 34.5869, 0.2472,
0.3502

■ 35.4111, 0.2547,
0.3462

■ 36.4410, 0.2639,
0.3423

■ 37.6904, 0.2746,
0.3386

■ 39.1713, 0.2865,
0.3351

■ 40.8954, 0.2993,
0.3319

Harmonies

Analogous

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



32.9930, 0.2904, 0.4279



32.9930, 0.2352, 0.3667



32.9930, 0.2026, 0.2989

Triad

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



32.9930, 0.2352, 0.3667



32.9930, 0.2612, 0.2300



32.9930, 0.4428, 0.3892

Complementary

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



32.9930, 0.2352, 0.3667



9.1690, 0.6245, 0.3214

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.



32.9930, 0.4366, 0.3390



32.9930, 0.2352, 0.3667



32.9930, 0.3248, 0.2524

Square

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



32.9930, 0.2352, 0.3667



32.9930, 0.2167, 0.2282



32.9930, 0.3914, 0.2909



32.9930, 0.4113, 0.4322

Rectangle

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



32.9930, 0.2352, 0.3667



32.9930, 0.1957, 0.2638



32.9930, 0.3914, 0.2909



32.9930, 0.4454, 0.3727

Sweetspot

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



32.9943, 0.2352, 0.3667



67.3704, 0.2740, 0.3388



30.8478, 0.3037, 0.5970



14.7594, 0.2695, 0.3403



89.0005, 0.3127, 0.3290



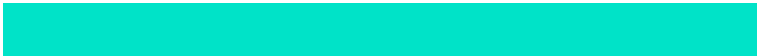
17.0645, 0.3127, 0.3290

Same Dimension

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



32.9943, 0.2352, 0.3667



59.0665, 0.2354, 0.3674



14.4297, 0.1902, 0.2048



9.0553, 0.3002, 0.3317



23.6329, 0.2351, 0.3662



0.6620, 0.2316, 0.3538

Inverse Universe

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



9.1690, 0.6245, 0.3214



16.4031, 0.6272, 0.3229



12.8014, 0.5782, 0.3791



8.0304, 0.3268, 0.3263



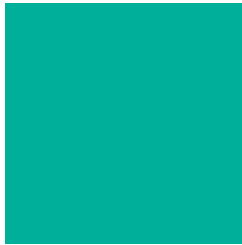
6.5707, 0.6226, 0.3203



0.1876, 0.5643, 0.2882

Previews

White Background



This preview shows how the Yxy color 32.9930, 0.2352, 0.3667 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 32.9930, 0.2352, 0.3667 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

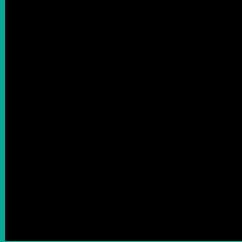
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 32.9930, 0.2352, 0.3667

Background



This preview shows how black text looks on a background with the Yxy color 32.9930, 0.2352, 0.3667.

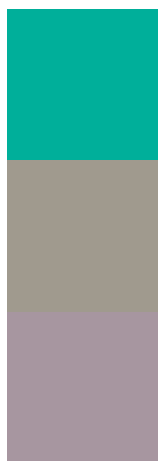


This preview shows how white text looks on a background with the Yxy color 32.9930, 0.2352, 0.3667.

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

32.9930, 0.2352, 0.3667

Protanopia

32.5378, 0.3301, 0.3472

Deuteranopia

32.5662, 0.3205, 0.3145



Tritanopia

33.1674, 0.2254, 0.3072

Trichromacy



Original Color

32.9930, 0.2352, 0.3667



Protanomaly

30.7408, 0.2736, 0.3566



Deuteranomaly

30.3291, 0.2672, 0.3306



Tritanomaly

32.7834, 0.2275, 0.3270

Monochromacy



Original Color

32.9930, 0.2352, 0.3667



Achromatopsia

18.7821, 0.3127, 0.3290



Achromatomaly

21.9586, 0.2595, 0.3448

CSS Examples

Text

The CSS property to change the color of the text to Yxy 32.9930, 0.2352, 0.3667 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, 175, 154)` looks like.

```
.text, #text, p{  
    color:rgb(0, 175, 154)  
}
```

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, 175, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 175, 154) }
```

Border

The CSS property to change the border of an element to Yxy 32.9930, 0.2352, 0.3667 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, 175, 154) }
```

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

```
.border{ border-color:rgb(0, 175, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 175, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 175, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 175, 154);  
box-shadow:4px 4px 4px 4px rgb(0, 175,  
154) }
```


Background

The CSS property to change the background color of an element to Yxy 32.9930, 0.2352, 0.3667 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 175, 154) }
```

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

```
.background{ background-color: rgb(0, 175,  
154) }
```

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