

Converting Colors

$Y_{xy}(32.9511, 0.2359, 0.3686)$

Have a look what the booklet for
Yxy(32.9511, 0.2359, 0.3686)
contains.

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Color

Yxy(32.9728, 0.2359, 0.3685)

Conversions

Conversions Part 1

Format	Color
Hex	02AF99
RGB	2, 175, 153
RGB Percent	1%, 69%, 60%
CMY	0.9913, 0.3137, 0.3999
CMYK	0.99, 0.00, 0.13, 0.31
HSL	172°, 97%, 35%
HSV	172°, 99%, 69%
XYZ	21.1080, 32.9728, 35.3977
YIQ	120.7650, -96.0460, -43.5180

Conversions

Conversions Part 2

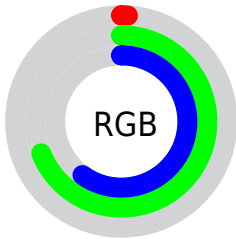
Format	Color
RYB	2, 94, 175
Decimal	176025
CIELab	64.14, -42.64, 0.65
CIELCh	64, 42.643, 179.127
Yxy	32.9728, 0.2359, 0.3685
Android (android.graphics.Color)	4278366105 (0xFF02AF99)
YUV	120.7650, 15.8919, -104.1569
Hunter-Lab	57.4219, -34.8729, 3.6461

Details

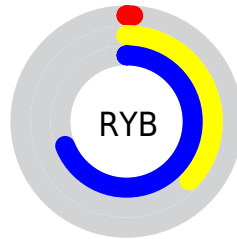
The Yxy color **32.9728, 0.2359, 0.3685** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **9.2287, 0.6202, 0.3203**, and the grayscale version is **19.0344, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.1436, 0.2511, 0.3606**, and **14.6341, 0.2382, 0.3774** is the 20% darker color. If you saturate the color by 10%, you get **32.9504, 0.2359, 0.3691**, and if you desaturate by 10%, it is **33.1798, 0.2365, 0.3641**.

Distribution



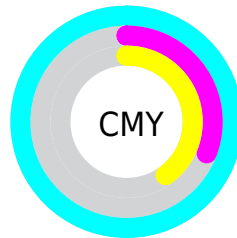
- Red (1%)
- Green (69%)
- Blue (60%)



- Red (1%)
- Yellow (37%)
- Blue (69%)



- Cyan (99%)
- Magenta (0%)
- Yellow (13%)
- Black (31%)




- Cyan (99%)
- Magenta (31%)
- Yellow (40%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 32.9728, 0.2359, 0.3685 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 32.9728, 0.2359, 0.3685 by changing the saturation by 10% instead.


 32.9728, 0.2359,
0.3685


 32.9728, 0.2359,
0.3685


315.5272, 0.2762,
0.3477

 22.1056, 0.2253,
0.3740


 64.3331, 0.2510,
0.3607

 13.9345, 0.2114,
0.3813


 85.5949, 0.2565,
0.3579


 8.0751, 0.1923,
0.3912


 111.0905, 0.2611,
0.3555

 4.1431, 0.1650,
0.4057

 141.2041, 0.2650,
0.3535

 1.7539, 0.1106,
0.4342

 176.3202, 0.2684,
0.3517

 0.4582, 0.0000,
0.5026

 216.8231, 0.2713,

 0.0000, 0.0000,

0.3502

0.0000

263.0973, 0.2739,
0.3489

■ 32.9728, 0.2359,
0.3685

■ 32.9728, 0.2359,
0.3685

■ 32.9504, 0.2359,
0.3691

■ 33.1798, 0.2365,
0.3641

■ 33.5070, 0.2386,
0.3597

■ 33.9910, 0.2426,
0.3553

■ 34.6512, 0.2485,
0.3510

■ 35.5045, 0.2562,
0.3467

■ 36.5655, 0.2655,
0.3426

■ 37.8476, 0.2763,
0.3387

■ 39.3630, 0.2882,
0.3351

■ 41.1229, 0.3010,
0.3317

Harmonies

Analogous

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



32.9728, 0.2917, 0.4295



32.9728, 0.2359, 0.3685



32.9728, 0.2026, 0.3001

Triad

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



32.9728, 0.2359, 0.3685



32.9728, 0.2597, 0.2293



32.9728, 0.4437, 0.3883

Complementary

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



32.9728, 0.2359, 0.3685



9.2287, 0.6202, 0.3203

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.



32.9728, 0.4365, 0.3378



32.9728, 0.2359, 0.3685



32.9728, 0.3232, 0.2514

Square

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



32.9728, 0.2359, 0.3685



32.9728, 0.2155, 0.2281



32.9728, 0.3904, 0.2897



32.9728, 0.4128, 0.4318

Rectangle

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



32.9728, 0.2359, 0.3685



32.9728, 0.1952, 0.2645



32.9728, 0.3904, 0.2897



32.9728, 0.4460, 0.3717

Sweetspot

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



32.9741, 0.2359, 0.3685



67.3451, 0.2743, 0.3394



30.8739, 0.3039, 0.5958



14.7531, 0.2697, 0.3410



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.



32.9741, 0.2359, 0.3685



58.9919, 0.2361, 0.3698



14.6198, 0.1910, 0.2065



9.0543, 0.3003, 0.3319



23.6038, 0.2357, 0.3686



0.6614, 0.2320, 0.3553

Inverse Universe

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



9.2287, 0.6202, 0.3203



16.4108, 0.6260, 0.3222



12.9652, 0.5750, 0.3801



8.0313, 0.3267, 0.3261



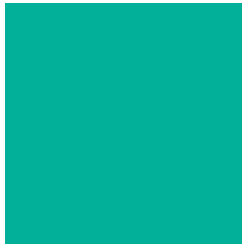
6.5743, 0.6212, 0.3196



0.1880, 0.5605, 0.2862

Previews

White Background



This preview shows how the Yxy color 32.9728, 0.2359, 0.3685 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 32.9728, 0.2359, 0.3685 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

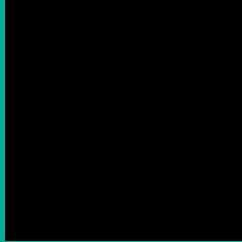
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 32.9728, 0.2359, 0.3685

Background



This preview shows how black text looks on a background with the Yxy color 32.9728, 0.2359, 0.3685.

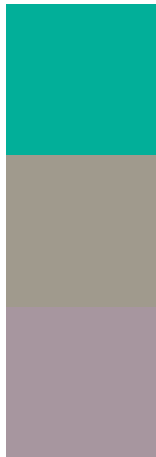


This preview shows how white text looks on a background with the Yxy color 32.9728, 0.2359, 0.3685.

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

32.9728, 0.2359, 0.3685

Protanopia

32.5079, 0.3311, 0.3487

Deuteranopia

32.5314, 0.3215, 0.3159



Tritanopia

33.1908, 0.2257, 0.3072

Trichromacy



Original Color

32.9728, 0.2359, 0.3685



Protanomaly

30.7686, 0.2751, 0.3583



Deuteranomaly

30.3564, 0.2687, 0.3322



Tritanomaly

32.8135, 0.2278, 0.3270

Monochromacy



Original Color

32.9728, 0.2359, 0.3685



Achromatopsia

19.1202, 0.3127, 0.3290



Achromatomaly

22.3629, 0.2605, 0.3447

CSS Examples

Text

The CSS property to change the color of the text to Yxy 32.9728, 0.2359, 0.3685 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(2, 175, 153)` looks like.

```
.text, #text, p{  
    color:rgb(2, 175, 153)  
}
```

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(2, 175, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(2, 175, 153) }
```

Border

The CSS property to change the border of an element to Yxy 32.9728, 0.2359, 0.3685 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(2, 175, 153) }
```

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

```
.border{ border-color:rgb(2, 175, 153) }
```

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

Here you see how a box with a 4 pixel rgb(2, 175, 153) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(2, 175, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(2, 175, 153);  
box-shadow:4px 4px 4px 4px rgb(2, 175,  
153) }
```


Background

The CSS property to change the background color of an element to Yxy 32.9728, 0.2359, 0.3685 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(2, 175, 153) }
```

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

```
.background{ background-color: rgb(2, 175,  
153) }
```

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](#).

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