

# Converting Colors

$Y_{xy}(32.7041, 0.2151, 0.2944)$

Have a look what the booklet for  
Yxy(32.7041, 0.2151, 0.2944)  
contains.

<b>Yxy(32.5110, 0.2150, 0.2939)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(32.5110, 0.2150, 0.2939)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00AABF
RGB	0, 170, 191
RGB Percent	0%, 67%, 75%
CMY	0.9988, 0.3334, 0.2509
CMYK	1.00, 0.11, 0.00, 0.25
HSL	187°, 100%, 38%
HSV	187°, 100%, 75%
XYZ	23.7831, 32.5110, 54.3251
YIQ	121.5640, -108.0610, -29.5090

# Conversions

## Conversions Part 2

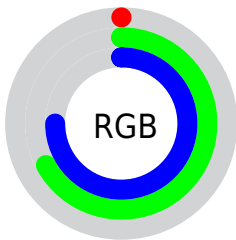
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 90, 191
Decimal	43711
CIELab	63.76, -28.73, -21.10
CIELCh	64, 35.649, 216.299
Yxy	32.5110, 0.2150, 0.2939
Android (android.graphics.Color)	4278233791 (0xFF00AABF)
YUV	121.5640, 34.2319, -106.6116
Hunter-Lab	57.0184, -25.3275, -16.5765

# Details

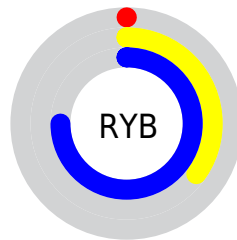
The Yxy color **32.5110, 0.2150, 0.2939** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **11.6288, 0.6309, 0.3370**, and the grayscale version is **19.2567, 0.3127, 0.3290**.

A 20% lighter version of the original color is **63.7608, 0.2333, 0.3028**, and **14.5576, 0.2114, 0.2811** is the 20% darker color. If you saturate the color by 10%, you get **32.4976, 0.2150, 0.2938**, and if you desaturate by 10%, it is **33.4488, 0.2176, 0.2977**.

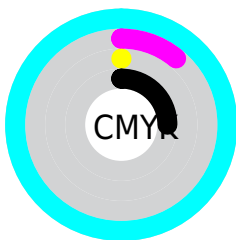
# Distribution



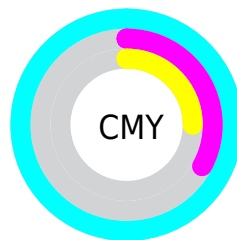
- Red (0%)
- Green (67%)
- Blue (75%)



- Red (0%)
- Yellow (35%)
- Blue (75%)



- Cyan (100%)
- Magenta (11%)
- Yellow (0%)
- Black (25%)




- Cyan (100%)
- Magenta (33%)
- Yellow (25%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 32.5110, 0.2150, 0.2939 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 32.5110, 0.2150, 0.2939 by changing the saturation by 10% instead.




 32.5110, 0.2150,  
0.2939


 32.5110, 0.2150,  
0.2939


313.4405, 0.2647,  
0.3140


 21.7521, 0.2026,  
0.2880


 63.6113, 0.2331,  
0.3018

 13.6749, 0.1867,  
0.2800


 84.7215, 0.2399,  
0.3046


 7.8949, 0.1658,  
0.2686


 110.0510, 0.2457,  
0.3069

 4.0278, 0.1376,  
0.2510

 139.9841, 0.2506,  
0.3088

 1.6891, 0.0982,  
0.2221

 174.9051, 0.2548,  
0.3104

 0.4166, 0.0000,  
0.1541

215.1987, 0.2585,

 0.0000, 0.0000,

0.3118

0.0000

261.2490, 0.2618,  
0.3130

■ 32.5110, 0.2150,  
0.2939

■ 32.5110, 0.2150,  
0.2939

■ 32.4976, 0.2150,  
0.2938

■ 33.4488, 0.2176,  
0.2977

■ 34.5368, 0.2217,  
0.3014

■ 35.8244, 0.2277,  
0.3053

■ 37.3367, 0.2355,  
0.3091

■ 39.0949, 0.2452,  
0.3128

■ 41.1175, 0.2565,  
0.3165

■ 43.4214, 0.2692,  
0.3199

■ 46.0218, 0.2831,  
0.3232

■ 48.9330, 0.2977,  
0.3263

# Harmonies

## Analogous

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



32.5110, 0.2389, 0.3484



32.5110, 0.2150, 0.2939



32.5110, 0.2145, 0.2565

# Triad

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



32.5110, 0.2150, 0.2939



32.5110, 0.3360, 0.2693



32.5110, 0.3885, 0.4230

# Complementary

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



32.5110, 0.2150, 0.2939



11.6288, 0.6309, 0.3370

# 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.



32.5110, 0.4201, 0.3910



32.5110, 0.2150, 0.2939



32.5110, 0.3896, 0.3054

# Square

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



32.5110, 0.2150, 0.2939



32.5110, 0.2799, 0.2463



32.5110, 0.4214, 0.3485



32.5110, 0.3380, 0.4301



# Rectangle

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



32.5110, 0.2150, 0.2939



32.5110, 0.2270, 0.2437



32.5110, 0.4214, 0.3485



32.5110, 0.4018, 0.4144

# Sweetspot

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



32.5122, 0.2150, 0.2939



77.4693, 0.2684, 0.3197



37.3223, 0.2981, 0.5931



16.6141, 0.2628, 0.3183



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290

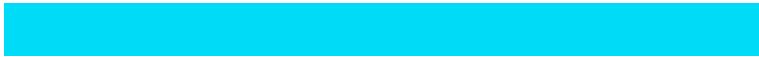


# Same Dimension

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



32.5122, 0.2150, 0.2939



57.9639, 0.2148, 0.2933



9.0154, 0.1684, 0.1262



10.6249, 0.2985, 0.3264



21.4240, 0.2151, 0.2944



0.8911, 0.2176, 0.3034



# Inverse Universe

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



13.9882, 0.3508, 0.1707



25.0092, 0.3514, 0.1709



23.2815, 0.5117, 0.4317



9.6777, 0.3154, 0.3088



9.1925, 0.3504, 0.1704



0.3653, 0.3425, 0.1660



# Previews

## White Background



This preview shows how the Yxy color 32.5110, 0.2150, 0.2939 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 32.5110, 0.2150, 0.2939 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

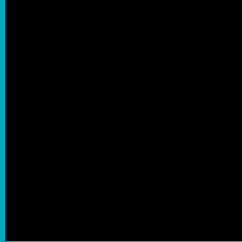
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 32.5110, 0.2150, 0.2939**

## **Background**



This preview shows how black text looks on a background with the Yxy color 32.5110, 0.2150, 0.2939.



This preview shows how white text looks on a background with the Yxy color 32.5110, 0.2150, 0.2939.

# 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

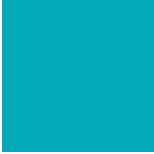
32.5110, 0.2150, 0.2939

### Protanopia

32.0070, 0.2851, 0.2890

### Deuteranopia

32.2764, 0.2715, 0.2660



## Tritanopia

32.5865, 0.2186, 0.3068

# Trichromacy



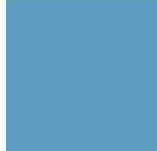
## Original Color

32.5110, 0.2150, 0.2939



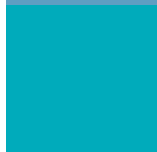
## Protanomaly

30.5949, 0.2423, 0.2900



## Deuteranomaly

30.7284, 0.2355, 0.2722



## Tritanomaly

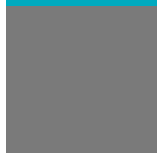
32.7137, 0.2172, 0.3020

# Monochromacy



## Original Color

32.5110, 0.2150, 0.2939



## Achromatopsia

19.4618, 0.3127, 0.3290



## Achromatomaly

22.1915, 0.2492, 0.3135

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  32.5110, 0.2150, 0.2939 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, 170, 191)` looks like.

```
.text, #text, p{  
    color:rgb(0, 170, 191)  
}
```

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, 170, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 170, 191) }
```

## Border

The CSS property to change the border of an element to Yxy 32.5110, 0.2150, 0.2939 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, 170, 191) }
```

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

```
.border{ border-color:rgb(0, 170, 191) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 170, 191)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 170, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 170, 191);  
box-shadow:4px 4px 4px 4px rgb(0, 170,  
191) }
```



# Background

The CSS property to change the background color of an element to Yxy 32.5110, 0.2150, 0.2939 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 170, 191) }
```

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

```
.background{ background-color: rgb(0, 170,  
191) }
```

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