

# Converting Colors

$Yxy(32.7631, 0.1978, 0.3007)$

Have a look what the booklet for  
Yxy(32.7631, 0.1978, 0.3007)  
contains.

<b>Yxy(34.4215, 0.2174, 0.3025)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(34.4215, 0.2174, 0.3025)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00AFBF
RGB	0, 175, 191
RGB Percent	0%, 69%, 75%
CMY	0.9982, 0.3137, 0.2510
CMYK	1.00, 0.08, 0.00, 0.25
HSL	185°, 100%, 38%
HSV	185°, 100%, 75%
XYZ	24.7380, 34.4215, 54.6306
YIQ	124.4990, -109.4360, -32.1240

# Conversions

## Conversions Part 2

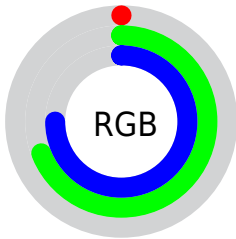
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 91, 191
Decimal	44991
CIELab	65.30, -31.18, -18.76
CIElCh	65, 36.385, 211.035
Yxy	34.4215, 0.2174, 0.3025
Android (android.graphics.Color)	4278235071 (0xFF00AFBF)
YUV	124.4990, 32.7850, -109.1856
Hunter-Lab	58.6698, -27.4082, -14.1392

# Details

The Yxy color **34.4215, 0.2174, 0.3025** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **11.4625, 0.6335, 0.3349**, and the grayscale version is **20.2956, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.5766, 0.2350, 0.3091**, and **15.7540, 0.2147, 0.2929** is the 20% darker color. If you saturate the color by 10%, you get **34.4043, 0.2174, 0.3024**, and if you desaturate by 10%, it is **35.1923, 0.2197, 0.3053**.

# Distribution



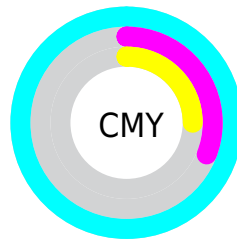
- Red (0%)
- Green (69%)
- Blue (75%)



- Red (0%)
- Yellow (36%)
- Blue (75%)



- Cyan (100%)
- Magenta (8%)
- Yellow (0%)
- Black (25%)




- Cyan (100%)
- Magenta (31%)
- Yellow (25%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 34.4215, 0.2174, 0.3025 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 34.4215, 0.2174, 0.3025 by changing the saturation by 10% instead.




 34.4215, 0.2174,  
0.3025


 34.4215, 0.2174,  
0.3025


322.0074, 0.2655,  
0.3180


 23.2176, 0.2054,  
0.2979


 66.5886, 0.2349,  
0.3087

 14.7543, 0.1901,  
0.2916


 88.3206, 0.2415,  
0.3108


 8.6471, 0.1701,  
0.2824

 114.3307, 0.2470,  
0.3126

 4.5117, 0.1430,  
0.2681

 145.0034, 0.2518,  
0.3140

 1.9637, 0.1055,  
0.2441

 180.7230, 0.2559,  
0.3153

 0.5863, 0.0000,  
0.2015

221.8740, 0.2595,

 0.0000, 0.0000,

0.3163

0.0000

268.8406, 0.2627,  
0.3172

■ 34.4215, 0.2174,  
0.3025

■ 34.4215, 0.2174,  
0.3025

■ 34.4043, 0.2174,  
0.3024

■ 35.1923, 0.2197,  
0.3053

■ 36.1088, 0.2235,  
0.3082

■ 37.2198, 0.2291,  
0.3110

■ 38.5503, 0.2366,  
0.3139

■ 40.1214, 0.2460,  
0.3167

■ 41.9516, 0.2570,  
0.3195

■ 44.0578, 0.2696,  
0.3221

■ 46.4551, 0.2833,  
0.3246

■ 49.1577, 0.2979,  
0.3269

# Harmonies

## Analogous

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



34.4215, 0.2453, 0.3586



34.4215, 0.2174, 0.3025



34.4215, 0.2128, 0.2614

# Triad

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



34.4215, 0.2174, 0.3025



34.4215, 0.3258, 0.2641



34.4215, 0.3959, 0.4189

# Complementary

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



34.4215, 0.2174, 0.3025



11.4625, 0.6335, 0.3349

# 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.



34.4215, 0.4229, 0.3840



34.4215, 0.2174, 0.3025



34.4215, 0.3814, 0.2983

# Square

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



34.4215, 0.2174, 0.3025



34.4215, 0.2711, 0.2439



34.4215, 0.4182, 0.3407



34.4215, 0.3477, 0.4315



# Rectangle

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



34.4215, 0.2174, 0.3025



34.4215, 0.2227, 0.2460



34.4215, 0.4182, 0.3407



34.4215, 0.4079, 0.4090

# Sweetspot

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



34.4227, 0.2174, 0.3025



78.6171, 0.2686, 0.3219



37.3038, 0.2985, 0.5944



16.8998, 0.2631, 0.3208



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290

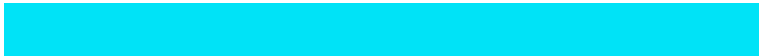


# Same Dimension

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



34.4227, 0.2174, 0.3025



61.4404, 0.2172, 0.3020



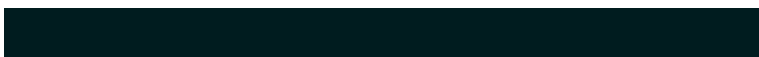
9.4813, 0.1699, 0.1313



10.6687, 0.2985, 0.3270



22.6673, 0.2175, 0.3028



0.9287, 0.2193, 0.3096



# Inverse Universe

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



14.1817, 0.3432, 0.1665



25.3602, 0.3437, 0.1667



22.5809, 0.5163, 0.4280



9.6821, 0.3150, 0.3083



9.3180, 0.3429, 0.1663



0.3691, 0.3371, 0.1631



# Previews

## White Background



This preview shows how the Yxy color 34.4215, 0.2174, 0.3025 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 34.4215, 0.2174, 0.3025 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

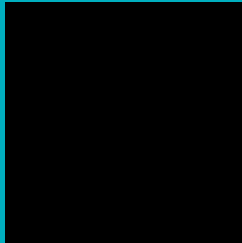
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 34.4215, 0.2174, 0.3025**

## **Background**



This preview shows how black text looks on a background with the Yxy color 34.4215, 0.2174, 0.3025.

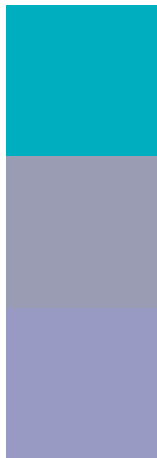


This preview shows how white text looks on a background with the Yxy color 34.4215, 0.2174, 0.3025.

# 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

34.4215, 0.2174, 0.3025

### Protanopia

33.9016, 0.2908, 0.2956

### Deuteranopia

33.8690, 0.2762, 0.2700



## Tritanopia

34.3341, 0.2182, 0.3057

# Trichromacy



## Original Color

34.4215, 0.2174, 0.3025



## Protanomaly

32.2100, 0.2459, 0.2969



## Deuteranomaly

32.3324, 0.2391, 0.2791



## Tritanomaly

34.3776, 0.2178, 0.3041

# Monochromacy



## Original Color

34.4215, 0.2174, 0.3025



## Achromatopsia

20.5079, 0.3127, 0.3290



## Achromatomaly

23.5203, 0.2505, 0.3175

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 34.4215, 0.2174, 0.3025 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, 191)` looks like.

```
.text, #text, p{  
    color:rgb(0, 175, 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, 175, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 175, 191) }
```

## Border

The CSS property to change the border of an element to Yxy 34.4215, 0.2174, 0.3025 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, 191) }
```

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

```
.border{ border-color:rgb(0, 175, 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, 175, 191)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 175, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 175, 191);  
box-shadow:4px 4px 4px 4px rgb(0, 175,  
191) }
```



# Background

The CSS property to change the background color of an element to Yxy 34.4215, 0.2174, 0.3025 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, 191) }
```

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

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