

# Converting Colors

$Y_{xy}(35.7048, 0.2334, 0.3602)$

Have a look what the booklet for  
Yxy(35.7048, 0.2334, 0.3602)  
contains.

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# Color

**Yxy(35.6921, 0.2333, 0.3600)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B5A3
RGB	0, 181, 163
RGB Percent	0%, 71%, 64%
CMY	1.0000, 0.2902, 0.3608
CMYK	1.00, 0.00, 0.10, 0.29
HSL	174°, 100%, 35%
HSV	174°, 100%, 71%
XYZ	23.1305, 35.6921, 40.3222
YIQ	124.8290, -102.0980, -43.9700

# Conversions

## Conversions Part 2

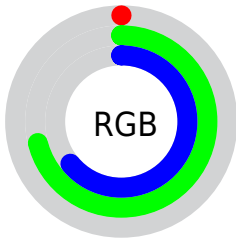
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 95, 181
Decimal	46499
CIELab	66.28, -42.51, -1.75
CIELCh	66, 42.543, 182.363
Yxy	35.6921, 0.2333, 0.3600
Android (android.graphics.Color)	4278236579 (0xFF00B5A3)
YUV	124.8290, 18.8183, -109.4750
Hunter-Lab	59.7429, -35.4407, 1.8035

# Details

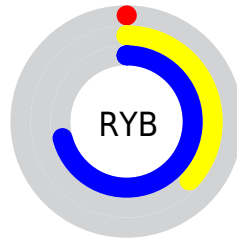
The Yxy color **35.6921, 0.2333, 0.3600** is a dark color, and the websafe version is hex **00CCCC**. A complement of this color would be **9.8687, 0.6284, 0.3235**, and the grayscale version is **20.4112, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.7524, 0.2483, 0.3544**, and **16.3264, 0.2354, 0.3675** is the 20% darker color. If you saturate the color by 10%, you get **35.6964, 0.2333, 0.3600**, and if you desaturate by 10%, it is **35.8910, 0.2340, 0.3567**.

# Distribution



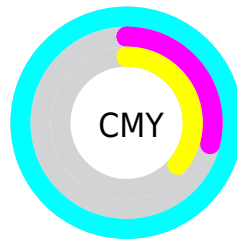
- Red (0%)
- Green (71%)
- Blue (64%)



- Red (0%)
- Yellow (37%)
- Blue (71%)



- Cyan (100%)
- Magenta (0%)
- Yellow (10%)
- Black (29%)




- Cyan (100%)
- Magenta (29%)
- Yellow (36%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 35.6921, 0.2333, 0.3600 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 35.6921, 0.2333, 0.3600 by changing the saturation by 10% instead.





 35.6921, 0.2333,  
0.3600

 35.6921, 0.2333,  
0.3600


 327.6128, 0.2742,  
0.3443


 24.1965, 0.2228,  
0.3640


 68.5566, 0.2484,  
0.3543

 15.4794, 0.2091,  
0.3690


 90.6942, 0.2540,  
0.3521


 9.1566, 0.1908,  
0.3757

 117.1480, 0.2587,  
0.3503

 4.8434, 0.1649,  
0.3849

 148.3023, 0.2627,  
0.3487

 2.1557, 0.1250,  
0.3986

 184.5415, 0.2662,  
0.3474

 0.6957, 0.0000,  
0.4415

 226.2501, 0.2692,

 0.0000, 0.0000,

0.3462

0.0000

273.8124, 0.2718,  
0.3452

■ 35.6921, 0.2333,  
0.3600

■ 35.6921, 0.2333,  
0.3600

■ 35.6964, 0.2333,  
0.3600

■ 35.8910, 0.2340,  
0.3567

■ 36.2061, 0.2361,  
0.3533

■ 36.6869, 0.2400,  
0.3499

■ 37.3553, 0.2458,  
0.3465

■ 38.2298, 0.2535,  
0.3432

■ 39.3267, 0.2629,  
0.3400

■ 40.6606, 0.2737,  
0.3370

■ 42.2449, 0.2859,  
0.3341

■ 44.0920, 0.2989,  
0.3314

# Harmonies

## Analogous

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



35.6921, 0.2859, 0.4214



35.6921, 0.2333, 0.3600



35.6921, 0.2034, 0.2948

# Triad

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



35.6921, 0.2333, 0.3600



35.6921, 0.2671, 0.2332



35.6921, 0.4386, 0.3923

# Complementary

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



35.6921, 0.2333, 0.3600



9.8687, 0.6284, 0.3235

# 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.



35.6921, 0.4357, 0.3432



35.6921, 0.2333, 0.3600



35.6921, 0.3303, 0.2567

# Square

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



35.6921, 0.2333, 0.3600



35.6921, 0.2215, 0.2296



35.6921, 0.3945, 0.2955



35.6921, 0.4053, 0.4328



# Rectangle

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



35.6921, 0.2333, 0.3600



35.6921, 0.1981, 0.2618



35.6921, 0.3945, 0.2955



35.6921, 0.4421, 0.3763

# Sweetspot

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



35.6964, 0.2333, 0.3600



72.6830, 0.2732, 0.3371



33.1815, 0.3024, 0.5981



15.4859, 0.2685, 0.3383



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290



# Same Dimension

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



35.6964, 0.2333, 0.3600



63.9043, 0.2335, 0.3605



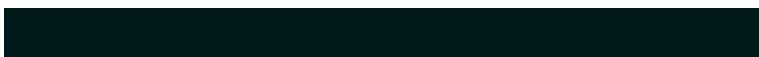
14.1900, 0.1868, 0.1926



9.6167, 0.2999, 0.3313



24.6111, 0.2332, 0.3596



0.7785, 0.2306, 0.3502



# Inverse Universe

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



9.8687, 0.6284, 0.3235



17.6574, 0.6306, 0.3247



14.5121, 0.5694, 0.3861



8.5185, 0.3272, 0.3268



6.8074, 0.6265, 0.3225

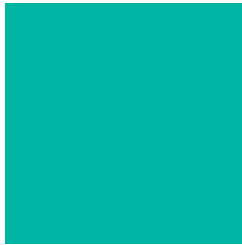


0.2186, 0.5786, 0.2961



# Previews

## White Background



This preview shows how the Yxy color 35.6921, 0.2333, 0.3600 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 35.6921, 0.2333, 0.3600 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

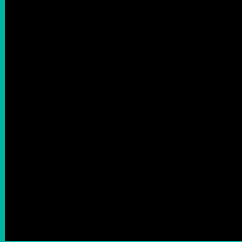
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 35.6921, 0.2333, 0.3600**

## **Background**



This preview shows how black text looks on a background with the Yxy color 35.6921, 0.2333, 0.3600.

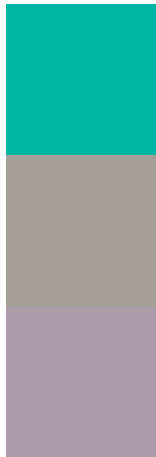


This preview shows how white text looks on a background with the Yxy color 35.6921, 0.2333, 0.3600.

# 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

35.6921, 0.2333, 0.3600

### Protanopia

35.0300, 0.3259, 0.3407

### Deuteranopia

35.0779, 0.3166, 0.3094



## Tritanopia

35.7867, 0.2247, 0.3063

# Trichromacy



## Original Color

35.6921, 0.2333, 0.3600



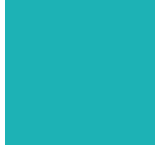
## Protanomaly

33.0072, 0.2702, 0.3489



## Deuteranomaly

32.5921, 0.2640, 0.3240



## Tritanomaly

35.4382, 0.2263, 0.3238

# Monochromacy



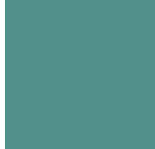
## Original Color

35.6921, 0.2333, 0.3600



## Achromatopsia

20.5079, 0.3127, 0.3290



## Achromatomaly

23.8204, 0.2585, 0.3404

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 35.6921, 0.2333, 0.3600 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, 181, 163)` looks like.

```
.text, #text, p{  
    color:rgb(0, 181, 163)  
}
```

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, 181, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 181, 163) }
```

## Border

The CSS property to change the border of an element to Yxy 35.6921, 0.2333, 0.3600 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, 181, 163) }
```

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

```
.border{ border-color:rgb(0, 181, 163) }
```

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

Here you see how a box with a 4 pixel rgb(0, 181, 163) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 181, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 181, 163);  
box-shadow:4px 4px 4px 4px rgb(0, 181,  
163) }
```



# Background

The CSS property to change the background color of an element to Yxy 35.6921, 0.2333, 0.3600 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 181, 163) }
```

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

```
.background{ background-color: rgb(0, 181,  
163) }
```

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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