

# Converting Colors

$Y_{xy}(35.9457, 0.2338, 0.3558)$

Have a look what the booklet for  
Yxy(35.9457, 0.2338, 0.3558)  
contains.

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# Color

**Yxy(35.8930, 0.2339, 0.3563)**

# Conversions

## Conversions Part 1

Format	Color
Hex	12B5A5
RGB	18, 181, 165
RGB Percent	7%, 71%, 65%
CMY	0.9299, 0.2902, 0.3529
CMYK	0.90, 0.00, 0.09, 0.29
HSL	174°, 82%, 39%
HSV	174°, 90%, 71%
XYZ	23.5627, 35.8930, 41.2825
YIQ	130.4390, -92.0120, -39.5320

# Conversions

## Conversions Part 2

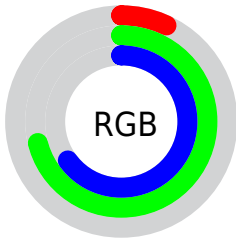
Format	Color
<a href="#">RYB</a>	<a href="#">18, 104, 181</a>
Decimal	<a href="#">1226149</a>
CIELab	<a href="#">66.44, -41.24, -2.62</a>
CIELCh	<a href="#">66, 41.322, 183.635</a>
Yxy	<a href="#">35.8930, 0.2339, 0.3563</a>
Android (android.graphics.Color)	<a href="#">4279416229 (0xFF12B5A5)</a>
YUV	<a href="#">130.4390, 17.0386, -98.6090</a>
Hunter-Lab	<a href="#">59.9108, -34.6405, 1.0828</a>

# Details

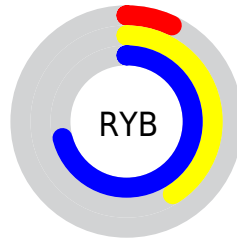
The Yxy color **35.8930, 0.2339, 0.3563** is a dark color, and the websafe version is hex **00CCCC**. A complement of this color would be **10.3677, 0.6037, 0.3200**, and the grayscale version is **22.4362, 0.3127, 0.3290**.

A 20% lighter version of the original color is **69.0831, 0.2488, 0.3517**, and **16.3710, 0.2340, 0.3625** is the 20% darker color. If you saturate the color by 10%, you get **35.7036, 0.2332, 0.3596**, and if you desaturate by 10%, it is **36.2067, 0.2360, 0.3530**.

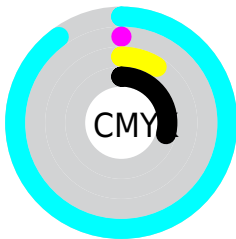
# Distribution



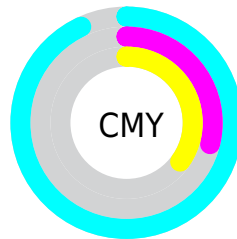
- Red (7%)
- Green (71%)
- Blue (65%)



- Red (7%)
- Yellow (41%)
- Blue (71%)



- Cyan (90%)
- Magenta (0%)
- Yellow (9%)
- Black (29%)



- Cyan (93%)
- Magenta (29%)
- Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 35.8930, 0.2339, 0.3563 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 35.8930, 0.2339, 0.3563 by changing the saturation by 10% instead.




 35.8930, 0.2339,  
0.3563


 35.8930, 0.2339,  
0.3563


328.4926, 0.2744,  
0.3426


 24.3516, 0.2235,  
0.3597


 68.8669, 0.2488,  
0.3513

 15.5946, 0.2100,  
0.3640


 91.0681, 0.2544,  
0.3495


 9.2378, 0.1920,  
0.3696


 117.5914, 0.2590,  
0.3479

 4.8966, 0.1666,  
0.3771

 148.8212, 0.2630,  
0.3465

 2.1867, 0.1282,  
0.3876

 185.1418, 0.2664,  
0.3454

 0.7127, 0.0000,  
0.4263

226.9376, 0.2694,

 0.0000, 0.0000,

0.3443

0.0000

274.5931, 0.2721,  
0.3434

■ 35.8930, 0.2339,  
0.3563

■ 35.8930, 0.2339,  
0.3563

■ 35.7036, 0.2332,  
0.3596

■ 36.2067, 0.2360,  
0.3530

■ 36.6844, 0.2399,  
0.3496

■ 37.3494, 0.2457,  
0.3463

■ 38.2203, 0.2533,  
0.3430

■ 39.3133, 0.2627,  
0.3399

■ 40.6431, 0.2735,  
0.3369

■ 42.2231, 0.2857,  
0.3341

■ 44.0657, 0.2987,  
0.3314

■ 46.1825, 0.3125,  
0.3290

# Harmonies

## Analogous

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



35.8930, 0.2844, 0.4162



35.8930, 0.2339, 0.3563



35.8930, 0.2057, 0.2937

# Triad

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



35.8930, 0.2339, 0.3563



35.8930, 0.2708, 0.2363



35.8930, 0.4342, 0.3928

# Complementary

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



35.8930, 0.2339, 0.3563



10.3677, 0.6037, 0.3200

# 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.



35.8930, 0.4329, 0.3452



35.8930, 0.2339, 0.3563



35.8930, 0.3326, 0.2599

# Square

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



35.8930, 0.2339, 0.3563



35.8930, 0.2255, 0.2320



35.8930, 0.3943, 0.2984



35.8930, 0.4008, 0.4312



# Rectangle

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



35.8930, 0.2339, 0.3563



35.8930, 0.2011, 0.2622



35.8930, 0.3943, 0.2984



35.8930, 0.4381, 0.3773

# Sweetspot

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



35.8944, 0.2339, 0.3563



73.4976, 0.2767, 0.3361



33.4369, 0.3043, 0.5882



15.6940, 0.2728, 0.3371



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.



35.8944, 0.2339, 0.3563



63.9202, 0.2334, 0.3601



15.8974, 0.1930, 0.2072



9.6169, 0.2999, 0.3312



24.6171, 0.2331, 0.3591



0.7787, 0.2305, 0.3499



# Inverse Universe

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



10.3677, 0.6037, 0.3200



17.6561, 0.6308, 0.3248



16.0733, 0.5453, 0.3936



8.5184, 0.3272, 0.3268



6.8068, 0.6267, 0.3226

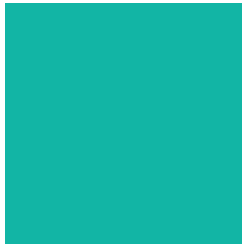


0.2186, 0.5793, 0.2965



# Previews

## White Background



This preview shows how the Yxy color 35.8930, 0.2339, 0.3563 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 35.8930, 0.2339, 0.3563 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

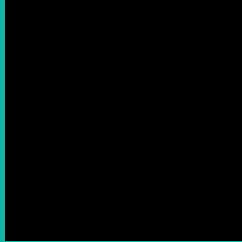
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

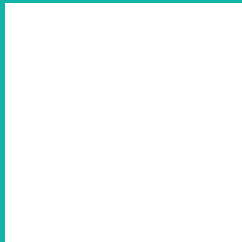
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 35.8930, 0.2339, 0.3563**

## Background



This preview shows how black text looks on a background with the Yxy color 35.8930, 0.2339, 0.3563.

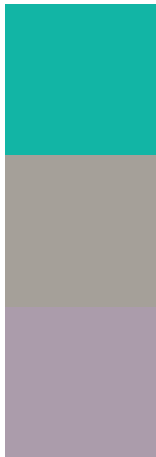


This preview shows how white text looks on a background with the Yxy color 35.8930, 0.2339, 0.3563.

# 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

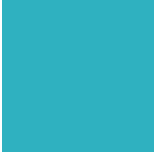
35.8930, 0.2339, 0.3563

### Protanopia

35.4409, 0.3239, 0.3392

### Deuteranopia

35.3751, 0.3137, 0.3080



## Tritanopia

35.8544, 0.2244, 0.3047

# Trichromacy



## Original Color

35.8930, 0.2339, 0.3563



## Protanomaly

33.8191, 0.2733, 0.3469



## Deuteranomaly

33.4197, 0.2672, 0.3225



## Tritanomaly

35.5933, 0.2271, 0.3221

# Monochromacy



## Original Color

35.8930, 0.2339, 0.3563



## Achromatopsia

22.3228, 0.3127, 0.3290



## Achromatomaly

25.6019, 0.2632, 0.3400

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 35.8930, 0.2339, 0.3563 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(18, 181, 165)` looks like.

```
.text, #text, p{  
    color:rgb(18, 181, 165)  
}
```

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(18, 181, 165) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 181, 165) }
```

## Border

The CSS property to change the border of an element to Yxy 35.8930, 0.2339, 0.3563 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(18, 181, 165) }
```

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

```
.border{ border-color:rgb(18, 181, 165) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 181, 165)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 181, 165); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 181, 165);  
box-shadow:4px 4px 4px 4px rgb(18, 181,  
165) }
```



# Background

The CSS property to change the background color of an element to Yxy 35.8930, 0.2339, 0.3563 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 181, 165) }
```

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

```
.background{ background-color: rgb(18, 181,  
165) }
```

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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