

# Converting Colors

$Y_{xy}(35.5022, 0.2156, 0.2836)$

Have a look what the booklet for  
Yxy(35.5022, 0.2156, 0.2836)  
contains.

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# Color

**Yxy(35.3597, 0.2155, 0.2834)**

# Conversions

## Conversions Part 1

Format	Color
Hex	22AFCC
RGB	34, 175, 204
RGB Percent	13%, 69%, 80%
CMY	0.8664, 0.3137, 0.2001
CMYK	0.83, 0.14, 0.00, 0.20
HSL	190°, 71%, 47%
HSV	190°, 83%, 80%
XYZ	26.8878, 35.3597, 62.5220
YIQ	136.1470, -93.3450, -20.8730

# Conversions

## Conversions Part 2

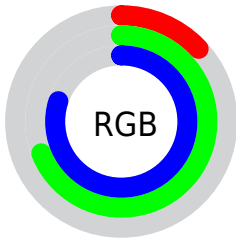
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">34, 111, 204</a>
Decimal	<a href="#">2273228</a>
CIELab	<a href="#">66.03, -25.34, -24.81</a>
CIElCh	<a href="#">66, 35.461, 224.392</a>
Yxy	<a href="#">35.3597, 0.2155, 0.2834</a>
Android (android.graphics.Color)	<a href="#">4280463308 (0xFF22AFCC)</a>
YUV	<a href="#">136.1470, 33.4515, -89.5829</a>
Hunter-Lab	<a href="#">59.4640, -23.3497, -20.7143</a>

# Details

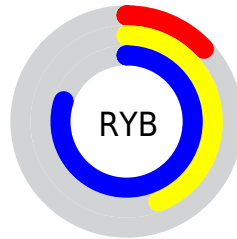
The Yxy color **35.3597, 0.2155, 0.2834** is a dark color, and the websafe version is hex **00CCFF**. The color can be described as middle muted azure. A complement of this color would be **16.5096, 0.5767, 0.3531**, and the grayscale version is **24.5837, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.7513, 0.2355, 0.3000**, and **16.1211, 0.2081, 0.2692** is the 20% darker color. If you saturate the color by 10%, you get **33.7738, 0.2113, 0.2773**, and if you desaturate by 10%, it is **37.1885, 0.2216, 0.2895**.

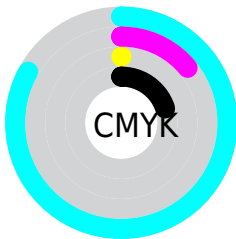
# Distribution



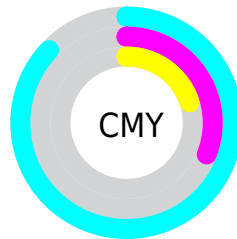
- Red (13%)
- Green (69%)
- Blue (80%)



- Red (13%)
- Yellow (44%)
- Blue (80%)



- Cyan (83%)
- Magenta (14%)
- Yellow (0%)
- Black (20%)




- Cyan (87%)
- Magenta (31%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 35.3597, 0.2155, 0.2834 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 35.3597, 0.2155, 0.2834 by changing the saturation by 10% instead.




 35.3597, 0.2155,  
0.2834


 35.3597, 0.2155,  
0.2834


326.1532, 0.2641,  
0.3085


 23.9401, 0.2036,  
0.2765


 68.0426, 0.2331,  
0.2930

 15.2892, 0.1885,  
0.2673


 90.0747, 0.2397,  
0.2965

 9.0226, 0.1689,  
0.2546


 116.4131, 0.2453,  
0.2993

 4.7559, 0.1427,  
0.2359

 147.4422, 0.2502,  
0.3017

 2.1048, 0.1071,  
0.2070

 183.5463, 0.2544,  
0.3038

 0.6673, 0.0039,  
0.1647

225.1100, 0.2580,

 0.0000, 0.0000,

0.3056

0.0000

272.5174, 0.2613,  
0.3071

■ 35.3597, 0.2155,  
0.2834

■ 35.3597, 0.2155,  
0.2834

■ 33.7738, 0.2113,  
0.2773

■ 37.1885, 0.2216,  
0.2895

■ 32.8072, 0.2093,  
0.2733

■ 39.2884, 0.2296,  
0.2957

■ 41.6871, 0.2394,  
0.3017

■ 44.4076, 0.2509,  
0.3075

■ 47.4706, 0.2638,  
0.3131

■ 50.8947, 0.2777,  
0.3183

■ 54.6973, 0.2924,  
0.3232

■ 58.8945, 0.3076,  
0.3276

■ 63.5013, 0.3230,  
0.3317

# Harmonies

## Analogous

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



35.3597, 0.2328, 0.3328



35.3597, 0.2155, 0.2834



35.3597, 0.2212, 0.2526

# Triad

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



35.3597, 0.2155, 0.2834



35.3597, 0.3503, 0.2795



35.3597, 0.3744, 0.4249

# Complementary

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



35.3597, 0.2155, 0.2834



16.5096, 0.5767, 0.3531

# 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.



35.3597, 0.4110, 0.3993



35.3597, 0.2155, 0.2834



35.3597, 0.3981, 0.3172

# Square

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



35.3597, 0.2155, 0.2834



35.3597, 0.2949, 0.2532



35.3597, 0.4208, 0.3597



35.3597, 0.3229, 0.4226



# Rectangle

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



35.3597, 0.2155, 0.2834



35.3597, 0.2373, 0.2440



35.3597, 0.4208, 0.3597



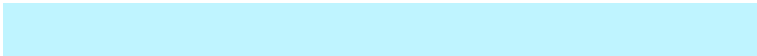
35.3597, 0.3889, 0.4187

# Sweetspot

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



35.3610, 0.2155, 0.2834



83.1074, 0.2748, 0.3173



43.8697, 0.2933, 0.5563



17.3508, 0.2698, 0.3154



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

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



35.3610, 0.2155, 0.2834



54.0640, 0.2090, 0.2725



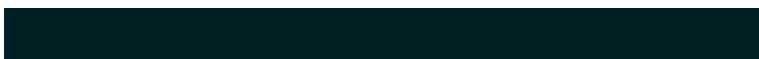
12.1307, 0.1775, 0.1410



12.3887, 0.2983, 0.3250



20.7732, 0.2095, 0.2741



1.1599, 0.2128, 0.2860



# Inverse Universe

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



17.0774, 0.3594, 0.1848



25.9889, 0.3705, 0.1814



33.9239, 0.4707, 0.4476



11.3696, 0.3163, 0.3100



9.9001, 0.3689, 0.1806



0.5196, 0.3580, 0.1746



# Previews

## White Background



This preview shows how the Yxy color 35.3597, 0.2155, 0.2834 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 35.3597, 0.2155, 0.2834 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

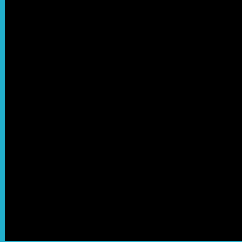
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 35.3597, 0.2155, 0.2834**

## **Background**



This preview shows how black text looks on a background with the Yxy color 35.3597, 0.2155, 0.2834.

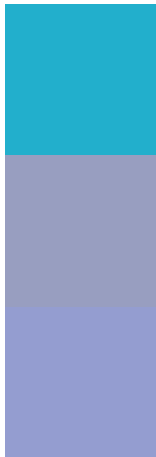


This preview shows how white text looks on a background with the Yxy color 35.3597, 0.2155, 0.2834.

# 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

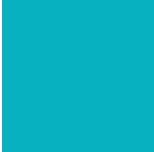
35.3597, 0.2155, 0.2834

### Protanopia

34.9349, 0.2788, 0.2808

### Deuteranopia

34.9639, 0.2638, 0.2587



## **Tritanopia**

35.2952, 0.2184, 0.3044

# Trichromacy



## Original Color

35.3597, 0.2155, 0.2834



## Protanomaly

33.7877, 0.2451, 0.2803



## Deuteranomaly

34.1817, 0.2376, 0.2654



## Tritanomaly

35.1554, 0.2170, 0.2966

# Monochromacy



## Original Color

35.3597, 0.2155, 0.2834



## Achromatopsia

24.6201, 0.3127, 0.3290



## Achromatomaly

27.0386, 0.2576, 0.3098

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 35.3597, 0.2155, 0.2834 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(34, 175, 204)` looks like.

```
.text, #text, p{  
    color:rgb(34, 175, 204)  
}
```

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(34, 175, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(34, 175, 204) }
```

## Border

The CSS property to change the border of an element to Yxy 35.3597, 0.2155, 0.2834 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(34, 175, 204) }
```

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

```
.border{ border-color:rgb(34, 175, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(34, 175, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(34, 175, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(34, 175, 204);  
box-shadow:4px 4px 4px 4px rgb(34, 175,  
204) }
```



# Background

The CSS property to change the background color of an element to Yxy 35.3597, 0.2155, 0.2834 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(34, 175, 204) }
```

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

```
.background{ background-color: rgb(34, 175,  
204) }
```

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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