

# Converting Colors

$Y_{xy}(28.7396, 0.1361, 0.2171)$

Have a look what the booklet for  
Yxy(28.7396, 0.1361, 0.2171)  
contains.

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# Color

**Yxy(34.9225, 0.1977, 0.2316)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00AAEE
RGB	0, 170, 238
RGB Percent	0%, 67%, 93%
CMY	0.9981, 0.3334, 0.0667
CMYK	1.00, 0.29, 0.00, 0.07
HSL	197°, 100%, 47%
HSV	197°, 100%, 93%
XYZ	29.8108, 34.9225, 86.0547
YIQ	126.9220, -123.1480, -14.8920

# Conversions

## Conversions Part 2

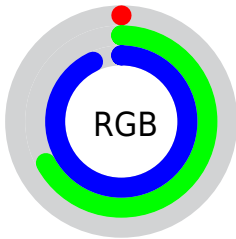
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 99, 238
Decimal	43758
CIELab	65.69, -12.39, -44.07
CIELCh	66, 45.780, 254.298
Yxy	34.9225, 0.1977, 0.2316
Android (android.graphics.Color)	4278233838 (0xFF00AAEE)
YUV	126.9220, 54.7615, -111.3106
Hunter-Lab	59.0953, -13.3718, -44.9716

# Details

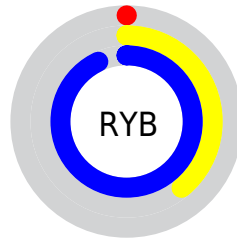
The Yxy color **34.9225, 0.1977, 0.2316** is a dark color, and the websafe version is hex **0099CC**, and the color name is **vivid cerulean**. The color can be described as middle washed azure. A complement of this color would be **22.3723, 0.6016, 0.3603**, and the grayscale version is **21.0882, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.3216, 0.2332, 0.2925**, and **16.3343, 0.1916, 0.2097** is the 20% darker color. If you saturate the color by 10%, you get **34.8671, 0.1976, 0.2314**, and if you desaturate by 10%, it is **37.7397, 0.2022, 0.2423**.

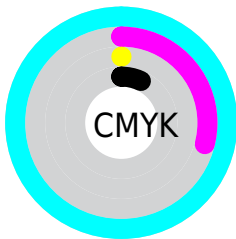
# Distribution



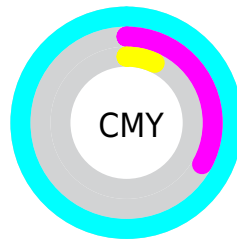
- Red (0%)
- Green (67%)
- Blue (93%)



- Red (0%)
- Yellow (39%)
- Blue (93%)



- Cyan (100%)
- Magenta (29%)
- Yellow (0%)
- Black (7%)




- Cyan (100%)
- Magenta (33%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 34.9225, 0.1977, 0.2316 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 34.9225, 0.1977, 0.2316 by changing the saturation by 10% instead.




 34.9225, 0.1977,  
0.2316


 34.9225, 0.1977,  
0.2316


324.2261, 0.2542,  
0.2813


 23.6032, 0.1844,  
0.2194


 67.3657, 0.2177,  
0.2496

 15.0395, 0.1680,  
0.2039


 89.2584, 0.2254,  
0.2564

 8.8471, 0.1473,  
0.1840


 115.4443, 0.2320,  
0.2622

 4.6416, 0.1210,  
0.1578

 146.3078, 0.2376,  
0.2671

 2.0386, 0.0878,  
0.1229

 182.2333, 0.2426,  
0.2714

 0.6297, 0.0357,  
0.0760

223.6053, 0.2469,

 0.0000, 0.0000,

0.2751

0.0000

270.8081, 0.2508,  
0.2784

■ 34.9225, 0.1977,  
0.2316

■ 34.9225, 0.1977,  
0.2316

■ 34.8671, 0.1976,  
0.2314

■ 37.7397, 0.2022,  
0.2423

■ 40.9284, 0.2086,  
0.2532

■ 44.5635, 0.2169,  
0.2641

■ 48.6904, 0.2273,  
0.2749

■ 53.3474, 0.2393,  
0.2854

■ 58.5683, 0.2527,  
0.2955

■ 64.3836, 0.2671,  
0.3050

■ 70.8212, 0.2822,  
0.3138

■ 77.9070, 0.2976,  
0.3218

# Harmonies

## Analogous

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



34.9225, 0.1906, 0.2688



34.9225, 0.1977, 0.2316



34.9225, 0.2312, 0.2212

# Triad

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



34.9225, 0.1977, 0.2316



34.9225, 0.4235, 0.3121



34.9225, 0.3238, 0.4532

# Complementary

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



34.9225, 0.1977, 0.2316



22.3723, 0.6016, 0.3603

# 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.



34.9225, 0.3896, 0.4521



34.9225, 0.1977, 0.2316



34.9225, 0.4523, 0.3644

# Square

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



34.9225, 0.1977, 0.2316



34.9225, 0.3605, 0.2662



34.9225, 0.4379, 0.4154



34.9225, 0.2584, 0.4061



# Rectangle

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



34.9225, 0.1977, 0.2316



34.9225, 0.2672, 0.2274



34.9225, 0.4379, 0.4154



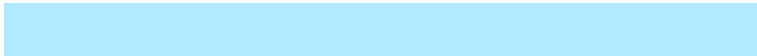
34.9225, 0.3466, 0.4582

# Sweetspot

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



34.9237, 0.1977, 0.2316



75.0767, 0.2666, 0.3047



61.5648, 0.2905, 0.5657



15.4369, 0.2604, 0.3007



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

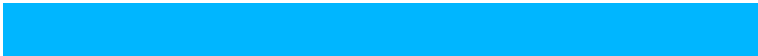


# Same Dimension

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



34.9237, 0.1977, 0.2316



40.6710, 0.1975, 0.2310



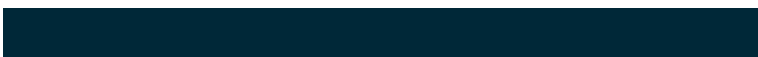
8.6280, 0.1558, 0.0807



17.1196, 0.2981, 0.3221



19.6850, 0.1981, 0.2331



1.8066, 0.2020, 0.2472



# Inverse Universe

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



21.0894, 0.4109, 0.2038



24.6369, 0.4116, 0.2041



53.5225, 0.4643, 0.4694



15.9497, 0.3182, 0.3123



11.7806, 0.4094, 0.2029



0.9971, 0.3950, 0.1950



# Previews

## White Background



This preview shows how the Yxy color 34.9225, 0.1977, 0.2316 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

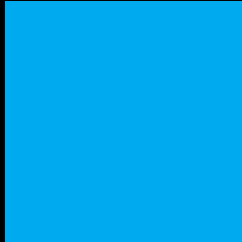
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 34.9225, 0.1977, 0.2316 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

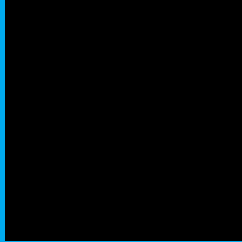
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

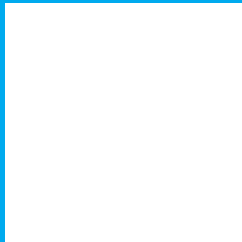
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 34.9225, 0.1977, 0.2316**

## **Background**



This preview shows how black text looks on a background with the Yxy color 34.9225, 0.1977, 0.2316.



This preview shows how white text looks on a background with the Yxy color 34.9225, 0.1977, 0.2316.

# 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

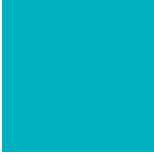
34.9225, 0.1977, 0.2316

### Protanopia

34.5572, 0.2428, 0.2336

### Deuteranopia

34.7265, 0.2253, 0.2191



## Tritanopia

34.7248, 0.2187, 0.3074

# Trichromacy



## Original Color

34.9225, 0.1977, 0.2316



## Protanomaly

33.2855, 0.2148, 0.2299



## Deuteranomaly

33.6684, 0.2073, 0.2207



## Tritanomaly

34.7771, 0.2103, 0.2770

# Monochromacy



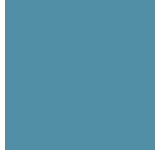
## Original Color

34.9225, 0.1977, 0.2316



## Achromatopsia

21.2231, 0.3127, 0.3290



## Achromatomaly

24.1843, 0.2388, 0.2861

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 34.9225, 0.1977, 0.2316 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, 238)` looks like.

```
.text, #text, p{  
  color:rgb(0, 170, 238)  
}
```

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, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 170, 238) }
```

## Border

The CSS property to change the border of an element to Yxy 34.9225, 0.1977, 0.2316 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, 238) }
```

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

```
.border{ border-color:rgb(0, 170, 238) }
```

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, 238) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 170, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 170, 238);  
box-shadow:4px 4px 4px 4px rgb(0, 170,  
238) }
```



# Background

The CSS property to change the background color of an element to Yxy 34.9225, 0.1977, 0.2316 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, 238) }
```

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

```
.background{ background-color: rgb(0, 170,  
238) }
```

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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