

# Converting Colors

$Y_{xy}(39.6159, 0.2035, 0.2525)$

Have a look what the booklet for  
Yxy(39.6159, 0.2035, 0.2525)  
contains.

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# Color

**Yxy(39.5120, 0.2034, 0.2522)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B6EC
RGB	0, 182, 236
RGB Percent	0%, 71%, 93%
CMY	0.9996, 0.2863, 0.0746
CMYK	1.00, 0.23, 0.00, 0.07
HSL	194°, 100%, 46%
HSV	194°, 100%, 93%
XYZ	31.8665, 39.5120, 85.2908
YIQ	133.7380, -125.8060, -21.7900

# Conversions

## Conversions Part 2

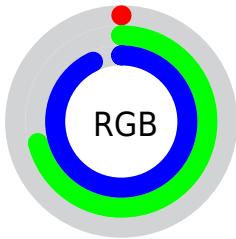
Format	Color
R <sub>YB</sub>	0, 103, 236
Decimal	46828
CIE Lab	69.12, -19.55, -37.60
CIE LCh	69, 42.382, 242.534
Yxy	39.5120, 0.2034, 0.2522
Android (android.graphics.Color)	4278236908 (0xFF00B6EC)
YUV	133.7380, 50.4152, -117.2882
Hunter-Lab	62.8586, -19.5108, -36.4477

# Details

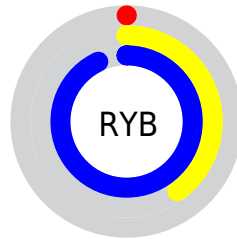
The Yxy color **39.5120, 0.2034, 0.2522** is a dark color, and the websafe version is hex **33CCFF**. The color can be described as middle washed azure. A complement of this color would be **20.4756, 0.6144, 0.3503**, and the grayscale version is **23.5966, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.6203, 0.2367, 0.3086**, and **18.9958, 0.1984, 0.2343** is the 20% darker color. If you saturate the color by 10%, you get **39.5039, 0.2034, 0.2522**, and if you desaturate by 10%, it is **41.9580, 0.2072, 0.2606**.

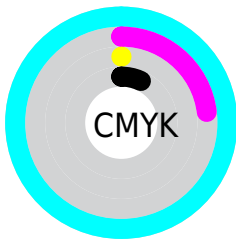
# Distribution



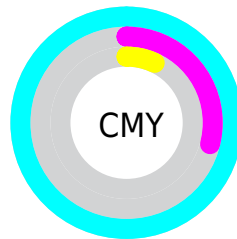
- Red (0%)
- Green (71%)
- Blue (93%)



- Red (0%)
- Yellow (40%)
- Blue (93%)



- Cyan (100%)
- Magenta (23%)
- Yellow (0%)
- Black (7%)




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


# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.5120, 0.2034, 0.2522 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 39.5120, 0.2034, 0.2522 by changing the saturation by 10% instead.





 39.5120, 0.2034,  
0.2522

 39.5120, 0.2034,  
0.2522

344.0624, 0.2564,  
0.2918


 27.1583, 0.1910,  
0.2423


 74.4198, 0.2221,  
0.2667

 17.6921, 0.1757,  
0.2296


 97.7427, 0.2293,  
0.2721


 10.7292, 0.1565,  
0.2130


 125.4908, 0.2354,  
0.2767

 5.8850, 0.1319,  
0.1906

 158.0484, 0.2407,  
0.2806

 2.7753, 0.1002,  
0.1596

 195.8000, 0.2454,  
0.2840

 1.0156, 0.0554,  
0.1166

239.1299, 0.2495,

 0.0000, 0.0000,

0.2869

0.0000

288.4226, 0.2531,  
0.2895

■ 39.5120, 0.2034,  
0.2522

■ 39.5120, 0.2034,  
0.2522

■ 39.5039, 0.2034,  
0.2522

■ 41.9580, 0.2072,  
0.2606

■ 44.7199, 0.2127,  
0.2691

■ 47.8723, 0.2202,  
0.2776

■ 51.4588, 0.2296,  
0.2861

■ 55.5161, 0.2408,  
0.2944

■ 60.0765, 0.2535,  
0.3023

■ 65.1691, 0.2674,  
0.3098

■ 70.8203, 0.2821,  
0.3167

■ 77.0549, 0.2973,  
0.3232

# Harmonies

## Analogous

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



39.5120, 0.2069, 0.2960



39.5120, 0.2034, 0.2522



39.5120, 0.2247, 0.2329

# Triad

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



39.5120, 0.2034, 0.2522



39.5120, 0.3918, 0.2970



39.5120, 0.3476, 0.4433

# Complementary

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



39.5120, 0.2034, 0.2522



20.4756, 0.6144, 0.3503

# 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.



39.5120, 0.4020, 0.4295



39.5120, 0.2034, 0.2522



39.5120, 0.4313, 0.3434

# Square

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



39.5120, 0.2034, 0.2522



39.5120, 0.3301, 0.2592



39.5120, 0.4341, 0.3908



39.5120, 0.2868, 0.4173



# Rectangle

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



39.5120, 0.2034, 0.2522



39.5120, 0.2520, 0.2328



39.5120, 0.4341, 0.3908



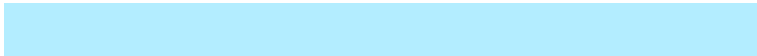
39.5120, 0.3673, 0.4427

# Sweetspot

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



39.5133, 0.2034, 0.2522



77.5991, 0.2672, 0.3096



60.2230, 0.2942, 0.5792



16.0431, 0.2612, 0.3065



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

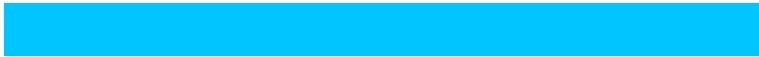


# Same Dimension

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



39.5133, 0.2034, 0.2522



46.9924, 0.2033, 0.2518



10.0618, 0.1593, 0.0935



16.5033, 0.2981, 0.3235



21.9834, 0.2038, 0.2535



1.8686, 0.2070, 0.2652



# Inverse Universe

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



21.2097, 0.3900, 0.1922



25.2751, 0.3904, 0.1924



46.2616, 0.4812, 0.4561



15.2514, 0.3173, 0.3110



11.7120, 0.3887, 0.1915

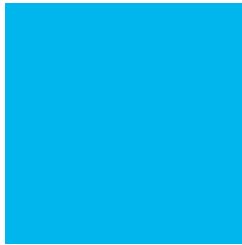


0.9340, 0.3774, 0.1853



# Previews

## White Background



This preview shows how the Yxy color 39.5120, 0.2034, 0.2522 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

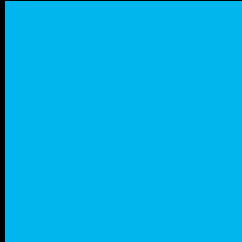
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 39.5120, 0.2034, 0.2522 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

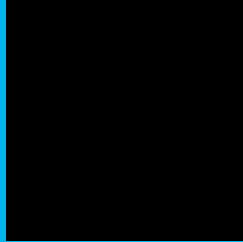
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 39.5120, 0.2034, 0.2522**

## **Background**



This preview shows how black text looks on a background with the Yxy color 39.5120, 0.2034, 0.2522.



This preview shows how white text looks on a background with the Yxy color 39.5120, 0.2034, 0.2522.

# 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

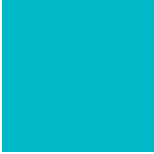
39.5120, 0.2034, 0.2522

### Protanopia

38.8173, 0.2574, 0.2528

### Deuteranopia

39.1392, 0.2403, 0.2341



## **Tritanopia**

39.3349, 0.2182, 0.3054

# Trichromacy



## Original Color

39.5120, 0.2034, 0.2522



## Protanomaly

37.2141, 0.2235, 0.2490



## Deuteranomaly

37.8609, 0.2160, 0.2374



## Tritanomaly

39.5530, 0.2125, 0.2851

# Monochromacy



## Original Color

39.5120, 0.2034, 0.2522



## Achromatopsia

23.8398, 0.3127, 0.3290



## Achromatomaly

27.0048, 0.2416, 0.2944

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.5120, 0.2034, 0.2522 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, 182, 236)` looks like.

```
.text, #text, p{  
    color:rgb(0, 182, 236)  
}
```

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, 182, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 182, 236) }
```

## Border

The CSS property to change the border of an element to Yxy 39.5120, 0.2034, 0.2522 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, 182, 236) }
```

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

```
.border{ border-color:rgb(0, 182, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 182, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 182, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 182, 236);  
box-shadow:4px 4px 4px 4px rgb(0, 182,  
236) }
```



# Background

The CSS property to change the background color of an element to Yxy 39.5120, 0.2034, 0.2522 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 182, 236) }
```

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

```
.background{ background-color: rgb(0, 182,  
236) }
```

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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