

# Converting Colors

$Y_{xy}(21.8574, 0.0567, 0.1345)$

Have a look what the booklet for  
Yxy(21.8574, 0.0567, 0.1345)  
contains.

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# Color

**Yxy(34.1303, 0.1907, 0.2066)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00A5FF
RGB	0, 165, 255
RGB Percent	0%, 65%, 100%
CMY	1.0000, 0.3529, 0.0000
CMYK	1.00, 0.35, 0.00, 0.00
HSL	201°, 100%, 50%
HSV	201°, 100%, 100%
XYZ	31.5036, 34.1303, 99.5660
YIQ	125.9250, -127.2300, -6.9900

# Conversions

## Conversions Part 2

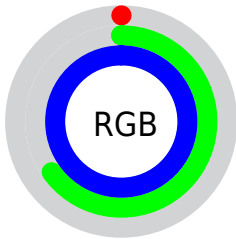
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	0, 100, 255
Decimal	42495
CIE <sub>Lab</sub>	65.07, -3.39, -54.36
CIE <sub>LCh</sub>	65, 54.462, 266.427
Y <sub>xy</sub>	34.1303, 0.1907, 0.2066
Android (android.graphics.Color)	4278232575 (0xFF00A5FF)
YUV	125.9250, 63.6340, -110.4362
Hunter-Lab	58.4211, -5.9808, -60.1520

# Details

The Yxy color **34.1303, 0.1907, 0.2066** is a dark color, and the websafe version is hex **0099FF**. The color can be described as middle saturated azure. A complement of this color would be **28.5711, 0.5860, 0.3729**, and the grayscale version is **20.6512, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.8511, 0.2329, 0.2863**, and **16.1118, 0.1842, 0.1831** is the 20% darker color. If you saturate the color by 10%, you get **34.1328, 0.1907, 0.2066**, and if you desaturate by 10%, it is **37.7076, 0.1960, 0.2200**.

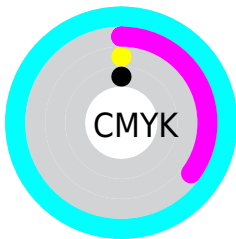
# Distribution



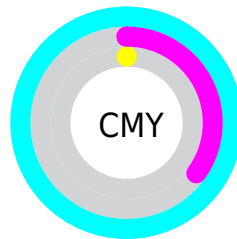
- Red (0%)
- Green (65%)
- Blue (100%)



- Red (0%)
- Yellow (39%)
- Blue (100%)



- Cyan (100%)
- Magenta (35%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (35%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 34.1303, 0.1907, 0.2066 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 34.1303, 0.1907, 0.2066 by changing the saturation by 10% instead.





 34.1303, 0.1907,  
0.2066


 34.1303, 0.1907,  
0.2066


320.7127, 0.2502,  
0.2670

 22.9937, 0.1769,  
0.1925


 66.1362, 0.2116,  
0.2279


 14.5889, 0.1601,  
0.1751


 87.7744, 0.2197,  
0.2362

 8.5314, 0.1393,  
0.1535


 113.6819, 0.2267,  
0.2432

 4.4368, 0.1134,  
0.1264

 144.2430, 0.2327,  
0.2492

 1.9208, 0.0816,  
0.0927

 179.8423, 0.2379,  
0.2545

 0.5608, 0.0403,  
0.0503

220.8641, 0.2425,

 0.0000, 0.0000,

0.2592

0.0000

267.6927, 0.2466,  
0.2633

■ 34.1303, 0.1907,  
0.2066

■ 34.1303, 0.1907,  
0.2066

■ 34.1328, 0.1907,  
0.2066

■ 37.7076, 0.1960,  
0.2200

■ 41.7931, 0.2032,  
0.2336

■ 46.4785, 0.2125,  
0.2474

■ 51.8200, 0.2238,  
0.2611

■ 57.8654, 0.2367,  
0.2743

■ 64.6568, 0.2509,  
0.2870

■ 72.2322, 0.2659,  
0.2989

■ 80.6266, 0.2815,  
0.3099

■ 89.8723, 0.2972,  
0.3199

# Harmonies

## Analogous

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



34.1303, 0.1704, 0.2350



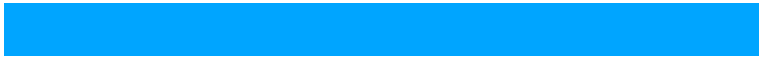
34.1303, 0.1907, 0.2066



34.1303, 0.2404, 0.2068

# Triad

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



34.1303, 0.1907, 0.2066



34.1303, 0.4655, 0.3310



34.1303, 0.2910, 0.4647

# Complementary

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



34.1303, 0.1907, 0.2066



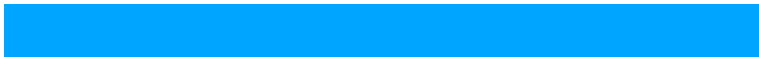
28.5711, 0.5860, 0.3729

# 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.



34.1303, 0.3707, 0.4839



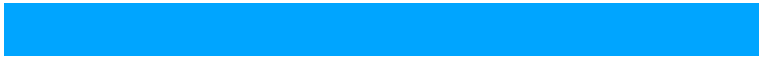
34.1303, 0.1907, 0.2066



34.1303, 0.4770, 0.3916

# Square

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



34.1303, 0.1907, 0.2066



34.1303, 0.4033, 0.2750



34.1303, 0.4394, 0.4490

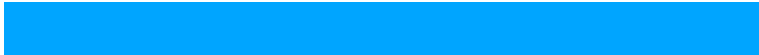


34.1303, 0.2215, 0.3870



# Rectangle

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



34.1303, 0.1907, 0.2066



34.1303, 0.2890, 0.2206



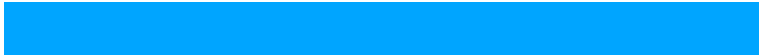
34.1303, 0.4394, 0.4490



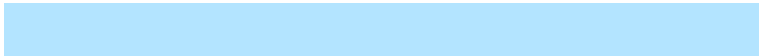
34.1303, 0.3175, 0.4786

# Sweetspot

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



34.1328, 0.1907, 0.2066



72.2322, 0.2659, 0.2989



72.2455, 0.2862, 0.5503



14.7561, 0.2595, 0.2940



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.



34.1328, 0.1907, 0.2066



8.6223, 0.1529, 0.0703



19.3393, 0.2980, 0.3204



18.1266, 0.1914, 0.2088



1.9707, 0.1956, 0.2241

# Inverse Universe

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



23.9769, 0.4378, 0.2186



70.7569, 0.4491, 0.4816



18.1851, 0.3192, 0.3137



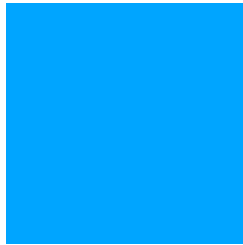
12.5579, 0.4354, 0.2172



1.2435, 0.4189, 0.2081

# Previews

## White Background



This preview shows how the Yxy color 34.1303, 0.1907, 0.2066 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 34.1303, 0.1907, 0.2066 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

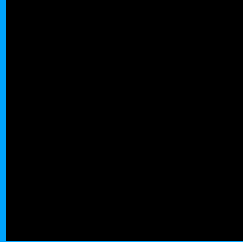
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

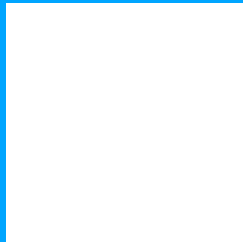
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 34.1303, 0.1907, 0.2066**

## **Background**



This preview shows how black text looks on a background with the Yxy color 34.1303, 0.1907, 0.2066.



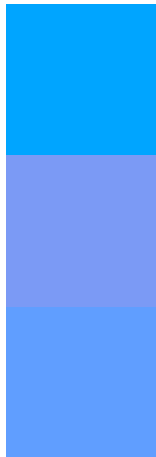
This preview shows how white text looks on a background with the Yxy color 34.1303, 0.1907, 0.2066.



# 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

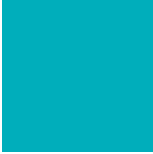
34.1303, 0.1907, 0.2066

### Protanopia

33.9147, 0.2247, 0.2105

### Deuteranopia

34.1605, 0.2082, 0.2026



## **Tritanopia**

33.8600, 0.2187, 0.3071

# Trichromacy



**Original Color**

34.1303, 0.1907, 0.2066

**Protanomaly**

32.9130, 0.2034, 0.2062

**Deuteranomaly**

33.7018, 0.1973, 0.2033

**Tritanomaly**

33.8793, 0.2070, 0.2652

# Monochromacy



**Original Color**

34.1303, 0.1907, 0.2066

**Achromatopsia**

20.8637, 0.3127, 0.3290

**Achromatomaly**

23.4788, 0.2333, 0.2708

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 34.1303, 0.1907, 0.2066 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, 165, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 165, 255)  
}
```

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, 165, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 165, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 34.1303, 0.1907, 0.2066 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, 165, 255) }
```

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

```
.border{ border-color:rgb(0, 165, 255) }
```

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

Here you see how a box with a 4 pixel rgb(0, 165, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 165, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 165, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 165,  
255) }
```

# Background

The CSS property to change the background color of an element to Yxy 34.1303, 0.1907, 0.2066 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 165, 255) }
```

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

```
.background{ background-color: rgb(0, 165,  
255) }
```

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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