

# Converting Colors

$Y_{xy}(25.1976, 0.0844, 0.1380)$

Have a look what the booklet for  
Yxy(25.1976, 0.0844, 0.1380)  
contains.

<b>Yxy(34.4924, 0.1911, 0.2081)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(34.4924, 0.1911, 0.2081)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00A6FF
RGB	0, 166, 255
RGB Percent	0%, 65%, 100%
CMY	1.0000, 0.3489, 0.0001
CMYK	1.00, 0.35, 0.00, 0.00
HSL	201°, 100%, 50%
HSV	201°, 100%, 100%
XYZ	31.6747, 34.4924, 99.5821
YIQ	126.5120, -127.5050, -7.5130

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 101, 255
Decimal	42751
CIELab	65.35, -4.00, -53.87
CIELCh	65, 54.022, 265.753
Yxy	34.4924, 0.1911, 0.2081
Android (android.graphics.Color)	4278232831 (0xFF00A6FF)
YUV	126.5120, 63.3446, -110.9510
Hunter-Lab	58.7302, -6.5084, -59.4201

# Details

The Yxy color **34.4924, 0.1911, 0.2081** 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 **28.3955, 0.5871, 0.3721**, and the grayscale version is **20.8642, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.3776, 0.2332, 0.2875**, and **16.3387, 0.1847, 0.1849** is the 20% darker color. If you saturate the color by 10%, you get **34.4995, 0.1912, 0.2081**, and if you desaturate by 10%, it is **38.0603, 0.1964, 0.2213**.

# Distribution



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



- Red (0%)
- Yellow (40%)
- 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 34.4924, 0.1911, 0.2081 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 34.4924, 0.1911, 0.2081 by changing the saturation by 10% instead.





 34.4924, 0.1911,  
0.2081

 34.4924, 0.1911,  
0.2081


322.3221, 0.2504,  
0.2678


 23.2721, 0.1774,  
0.1941


 66.6987, 0.2119,  
0.2292


 14.7946, 0.1607,  
0.1769


 88.4534, 0.2200,  
0.2373

 8.6753, 0.1399,  
0.1555


 114.4885, 0.2269,  
0.2443

 4.5300, 0.1141,  
0.1285

 145.1883, 0.2329,  
0.2503

 1.9743, 0.0824,  
0.0949

 180.9371, 0.2381,  
0.2555

 0.5924, 0.0415,  
0.0529

222.1195, 0.2427,

 0.0000, 0.0000,

0.2601

0.0000

269.1196, 0.2467,  
0.2641

■ 34.4924, 0.1911,  
0.2081

■ 34.4924, 0.1911,  
0.2081

■ 34.4995, 0.1912,  
0.2081

■ 38.0603, 0.1964,  
0.2213

■ 42.1268, 0.2035,  
0.2348

■ 46.7881, 0.2127,  
0.2484

■ 52.1003, 0.2239,  
0.2619

■ 58.1110, 0.2368,  
0.2750

■ 64.8622, 0.2510,  
0.2875

■ 72.3916, 0.2660,  
0.2992

■ 80.7342, 0.2815,  
0.3101

■ 89.9223, 0.2972,  
0.3200

# Harmonies

## Analogous

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



34.4924, 0.1716, 0.2370



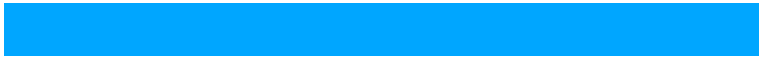
34.4924, 0.1911, 0.2081



34.4924, 0.2398, 0.2077

# Triad

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



34.4924, 0.1911, 0.2081



34.4924, 0.4629, 0.3298



34.4924, 0.2931, 0.4641

# Complementary

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



34.4924, 0.1911, 0.2081



28.3955, 0.5871, 0.3721

# 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.



34.4924, 0.3720, 0.4818



34.4924, 0.1911, 0.2081



34.4924, 0.4756, 0.3899

# Square

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



34.4924, 0.1911, 0.2081



34.4924, 0.4005, 0.2744



34.4924, 0.4394, 0.4469

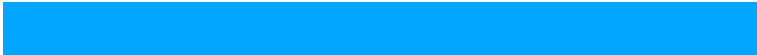


34.4924, 0.2238, 0.3884



# Rectangle

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



34.4924, 0.1911, 0.2081



34.4924, 0.2876, 0.2210



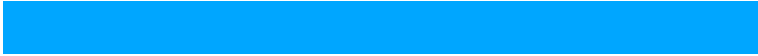
34.4924, 0.4394, 0.4469



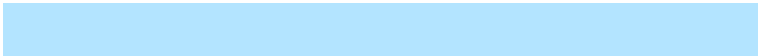
34.4924, 0.3194, 0.4773

# Sweetspot

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



34.4995, 0.1912, 0.2081



72.4016, 0.2660, 0.2992



72.1659, 0.2874, 0.5546



14.7965, 0.2596, 0.2944



0.0000, 0.0000, 0.0000

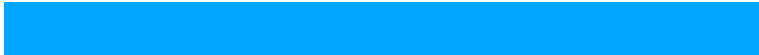


21.4041, 0.3127, 0.3290

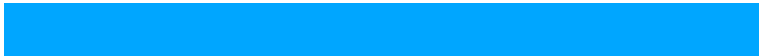


# Same Dimension

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



34.4995, 0.1912, 0.2081



34.5042, 0.1912, 0.2081



8.9104, 0.1535, 0.0724



19.3520, 0.2980, 0.3205



18.3197, 0.1918, 0.2103



1.9886, 0.1959, 0.2254



# Inverse Universe

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



24.0110, 0.4362, 0.2177



24.0144, 0.4362, 0.2177



68.5879, 0.4529, 0.4786



18.1864, 0.3192, 0.3136



12.5773, 0.4338, 0.2163



1.2453, 0.4175, 0.2074



# Previews

## White Background



This preview shows how the Yxy color 34.4924, 0.1911, 0.2081 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

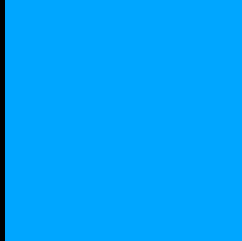
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 34.4924, 0.1911, 0.2081 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

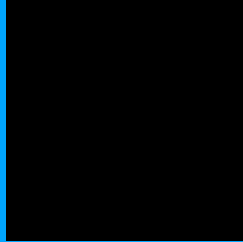
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

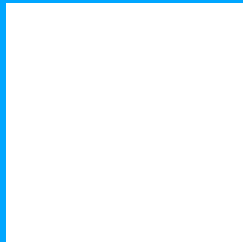
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 34.4924, 0.1911, 0.2081**

## **Background**



This preview shows how black text looks on a background with the Yxy color 34.4924, 0.1911, 0.2081.

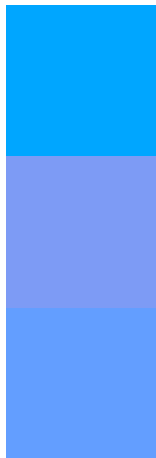


This preview shows how white text looks on a background with the Yxy color 34.4924, 0.1911, 0.2081.

# 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

34.4924, 0.1911, 0.2081

### Protanopia

34.3952, 0.2261, 0.2121

### Deuteranopia

34.3264, 0.2095, 0.2030



## **Tritanopia**

34.2908, 0.2187, 0.3072

# Trichromacy



**Original Color**

34.4924, 0.1911, 0.2081

**Protanomaly**

33.3413, 0.2044, 0.2078

**Deuteranomaly**

33.7665, 0.1979, 0.2034

**Tritanomaly**

34.2585, 0.2075, 0.2668

# Monochromacy



**Original Color**

34.4924, 0.1911, 0.2081

**Achromatopsia**

21.2231, 0.3127, 0.3290

**Achromatomaly**

23.8551, 0.2337, 0.2711

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  34.4924, 0.1911, 0.2081 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, 166, 255)` looks like.

```
.text, #text, p{  
  color:rgb(0, 166, 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, 166, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 166, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 34.4924, 0.1911, 0.2081 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, 166, 255) }
```

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

```
.border{ border-color:rgb(0, 166, 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, 166, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 166, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 166, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 166,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 34.4924, 0.1911, 0.2081 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 166, 255) }
```

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

```
.background{ background-color: rgb(0, 166,  
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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