

Converting Colors

$Y_{xy}(23.8959, 0.0941, 0.1732)$

Have a look what the booklet for
Yxy(23.8959, 0.0941, 0.1732)
contains.

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Color

Yxy(33.4144, 0.1899, 0.2038)

Conversions

Conversions Part 1

Format	Color
Hex	00A3FF
RGB	0, 163, 255
RGB Percent	0%, 64%, 100%
CMY	1.0000, 0.3607, 0.0000
CMYK	1.00, 0.36, 0.00, 0.00
HSL	202°, 100%, 50%
HSV	202°, 100%, 100%
XYZ	31.1354, 33.4144, 99.4070
YIQ	124.7510, -126.6800, -5.9440

Conversions

Conversions Part 2

Format	Color
RYB	0, 99, 255
Decimal	41983
CIELab	64.50, -2.29, -55.24
CIELCh	64, 55.284, 267.629
Yxy	33.4144, 0.1899, 0.2038
Android (android.graphics.Color)	4278232063 (0xFF00A3FF)
YUV	124.7510, 64.2128, -109.4066
Hunter-Lab	57.8052, -5.0143, -61.4968

Details

The Yxy color **33.4144, 0.1899, 0.2038** 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 **28.9065, 0.5839, 0.3746**, and the grayscale version is **20.2373, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.8076, 0.2324, 0.2837**, and **15.6656, 0.1832, 0.1795** is the 20% darker color. If you saturate the color by 10%, you get **33.4222, 0.1900, 0.2038**, and if you desaturate by 10%, it is **37.0214, 0.1953, 0.2174**.

Distribution



- Red (0%)
- Green (64%)
- Blue (100%)



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



- Cyan (100%)
- Magenta (36%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (36%)
- Yellow (0%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 33.4144, 0.1899, 0.2038 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 33.4144, 0.1899, 0.2038 by changing the saturation by 10% instead.


 33.4144, 0.1899,
0.2038


 33.4144, 0.1899,
0.2038

317.5129, 0.2500,
0.2655


 22.4441, 0.1760,
0.1894


 65.0220, 0.2110,
0.2256


 14.1836, 0.1590,
0.1718


 86.4280, 0.2192,
0.2340


 8.2485, 0.1379,
0.1498


 112.0814, 0.2262,
0.2412

 4.2543, 0.1118,
0.1224

 142.3666, 0.2323,
0.2474

 1.8168, 0.0799,
0.0886

 177.6680, 0.2375,
0.2528

 0.4976, 0.0378,
0.0451

218.3699, 0.2422,

 0.0000, 0.0000,

0.2575

0.0000

264.8567, 0.2463,
0.2617

■ 33.4144, 0.1899,
0.2038

■ 33.4144, 0.1899,
0.2038

■ 33.4222, 0.1900,
0.2038

■ 37.0214, 0.1953,
0.2174

■ 41.1407, 0.2026,
0.2314

■ 45.8695, 0.2120,
0.2455

■ 51.2646, 0.2234,
0.2595

■ 57.3737, 0.2364,
0.2731

■ 64.2394, 0.2507,
0.2860

■ 71.9000, 0.2659,
0.2982

■ 80.3906, 0.2815,
0.3095

■ 89.7440, 0.2972,
0.3197

Harmonies

Analogous

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



33.4144, 0.1681, 0.2311



33.4144, 0.1899, 0.2038



33.4144, 0.2415, 0.2052

Triad

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



33.4144, 0.1899, 0.2038



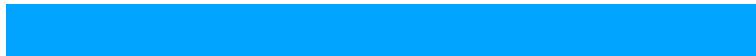
33.4144, 0.4704, 0.3331



33.4144, 0.2870, 0.4659

Complementary

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



33.4144, 0.1899, 0.2038



28.9065, 0.5839, 0.3746

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.



33.4144, 0.3683, 0.4878



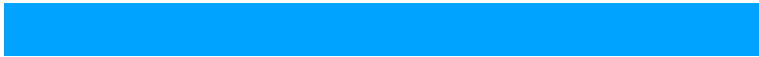
33.4144, 0.1899, 0.2038



33.4144, 0.4797, 0.3948

Square

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



33.4144, 0.1899, 0.2038



33.4144, 0.4085, 0.2759



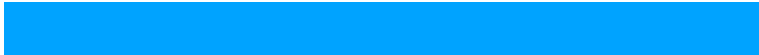
33.4144, 0.4392, 0.4531



33.4144, 0.2172, 0.3845

Rectangle

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



33.4144, 0.1899, 0.2038



33.4144, 0.2917, 0.2198



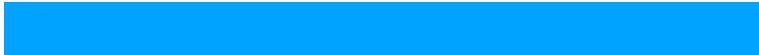
33.4144, 0.4392, 0.4531



33.4144, 0.3140, 0.4810

Sweetspot

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



33.4222, 0.1900, 0.2038



71.9064, 0.2659, 0.2982



72.2389, 0.2862, 0.5503



14.6783, 0.2594, 0.2932



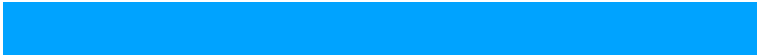
0.0000, 0.0000, 0.0000



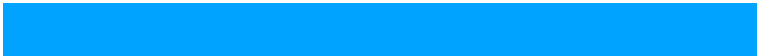
21.4041, 0.3127, 0.3290

Same Dimension

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



33.4222, 0.1900, 0.2038



33.4251, 0.1900, 0.2038



8.6215, 0.1529, 0.0703



19.3148, 0.2980, 0.3202



17.7587, 0.1906, 0.2061



1.9365, 0.1949, 0.2216

Inverse Universe

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



23.9033, 0.4410, 0.2203



23.9054, 0.4410, 0.2203



70.7505, 0.4491, 0.4816



18.1826, 0.3194, 0.3139



12.5207, 0.4385, 0.2189



1.2400, 0.4215, 0.2095

Previews

White Background



This preview shows how the Yxy color 33.4144, 0.1899, 0.2038 looks on a white background.

Color Contrast Check

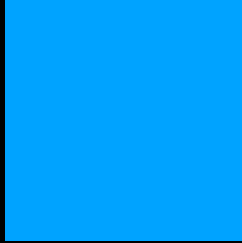
Large Text (above 18pt) WCAG AA × Fail

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 33.4144, 0.1899, 0.2038 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

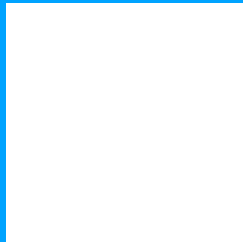
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 33.4144, 0.1899, 0.2038

Background



This preview shows how black text looks on a background with the Yxy color 33.4144, 0.1899, 0.2038.



This preview shows how white text looks on a background with the Yxy color 33.4144, 0.1899, 0.2038.

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

33.4144, 0.1899, 0.2038

Protanopia

33.0421, 0.2224, 0.2073

Deuteranopia

33.2722, 0.2059, 0.1994



Tritanopia

33.3899, 0.2191, 0.3086

Trichromacy



Original Color

33.4144, 0.1899, 0.2038

Protanomaly

32.1530, 0.2020, 0.2032

Deuteranomaly

32.9461, 0.1961, 0.2003

Tritanomaly

33.0291, 0.2068, 0.2646

Monochromacy



Original Color

33.4144, 0.1899, 0.2038

Achromatopsia

20.5079, 0.3127, 0.3290

Achromatomaly

23.1493, 0.2335, 0.2705

CSS Examples

Text

The CSS property to change the color of the text to Yxy 33.4144, 0.1899, 0.2038 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, 163, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 163, 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, 163, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 163, 255) }
```

Border

The CSS property to change the border of an element to Yxy 33.4144, 0.1899, 0.2038 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, 163, 255) }
```

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

```
.border{ border-color:rgb(0, 163, 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, 163, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 163, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 163, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 163,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 33.4144, 0.1899, 0.2038 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 163, 255) }
```

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

```
.background{ background-color: rgb(0, 163,  
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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