

Converting Colors

$Y_{xy}(35.8242, 0.1636, 0.1538)$

Have a look what the booklet for
Yxy(35.8242, 0.1636, 0.1538)
contains.

Yxy(33.7709, 0.1903, 0.2052)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	22
<i>Color Blindness Simulation</i>	25
<i>CSS Examples</i>	28

Color

Yxy(33.7709, 0.1903, 0.2052)

Conversions

Conversions Part 1

Format	Color
Hex	00A4FF
RGB	0, 164, 255
RGB Percent	0%, 64%, 100%
CMY	1.0000, 0.3568, 0.0000
CMYK	1.00, 0.36, 0.00, 0.00
HSL	201°, 100%, 50%
HSV	201°, 100%, 100%
XYZ	31.3187, 33.7709, 99.4859
YIQ	125.3380, -126.9550, -6.4670

Conversions

Conversions Part 2

Format	Color
R _Y B	0, 100, 255
Decimal	42239
CIE Lab	64.78, -2.84, -54.80
CIE LCh	65, 54.870, 267.031
Yxy	33.7709, 0.1903, 0.2052
Android (android.graphics.Color)	4278232319 (0xFF00A4FF)
YUV	125.3380, 63.9234, -109.9214
Hunter-Lab	58.1127, -5.4982, -60.8224

Details

The Yxy color **33.7709, 0.1903, 0.2052** 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 **28.7396, 0.5849, 0.3737**, and the grayscale version is **20.4439, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.3278, 0.2326, 0.2850**, and **15.8875, 0.1837, 0.1813** is the 20% darker color. If you saturate the color by 10%, you get **33.7764, 0.1904, 0.2052**, and if you desaturate by 10%, it is **37.3639, 0.1957, 0.2187**.

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 33.7709, 0.1903, 0.2052 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 33.7709, 0.1903, 0.2052 by changing the saturation by 10% instead.


 33.7709, 0.1903,
0.2052


 33.7709, 0.1903,
0.2052


319.1093, 0.2501,
0.2662


 22.7177, 0.1765,
0.1910


 65.5772, 0.2113,
0.2268

 14.3852, 0.1595,
0.1734


 87.0991, 0.2195,
0.2351

 8.3890, 0.1386,
0.1517


 112.8793, 0.2264,
0.2422

 4.3449, 0.1126,
0.1244

 143.3023, 0.2325,
0.2483

 1.8683, 0.0807,
0.0906

 178.7524, 0.2377,
0.2537

 0.5292, 0.0391,
0.0477

219.6140, 0.2423,

 0.0000, 0.0000,

0.2583

0.0000

266.2715, 0.2465,
0.2625

■ 33.7709, 0.1903,
0.2052

■ 33.7709, 0.1903,
0.2052

■ 33.7764, 0.1904,
0.2052

■ 37.3639, 0.1957,
0.2187

■ 41.4667, 0.2029,
0.2325

■ 46.1743, 0.2123,
0.2464

■ 51.5431, 0.2236,
0.2603

■ 57.6209, 0.2366,
0.2737

■ 64.4501, 0.2508,
0.2865

■ 72.0686, 0.2659,
0.2986

■ 80.5118, 0.2815,
0.3097

■ 89.8120, 0.2972,
0.3198

Harmonies

Analogous

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



33.7709, 0.1693, 0.2330



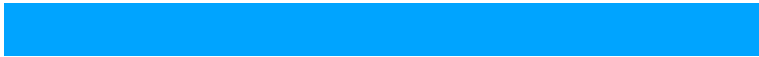
33.7709, 0.1903, 0.2052



33.7709, 0.2410, 0.2060

Triad

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



33.7709, 0.1903, 0.2052



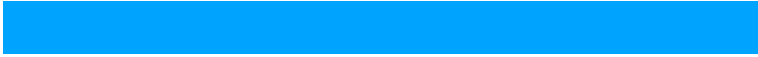
33.7709, 0.4680, 0.3320



33.7709, 0.2890, 0.4653

Complementary

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



33.7709, 0.1903, 0.2052



28.7396, 0.5849, 0.3737

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.



33.7709, 0.3695, 0.4858



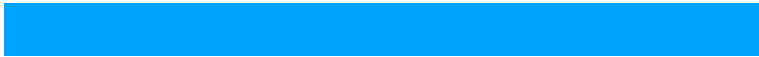
33.7709, 0.1903, 0.2052



33.7709, 0.4783, 0.3932

Square

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



33.7709, 0.1903, 0.2052



33.7709, 0.4059, 0.2755



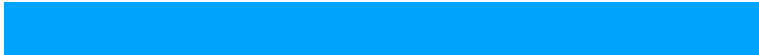
33.7709, 0.4393, 0.4511



33.7709, 0.2194, 0.3858

Rectangle

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



33.7709, 0.1903, 0.2052



33.7709, 0.2904, 0.2202



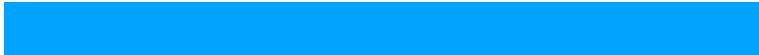
33.7709, 0.4393, 0.4511



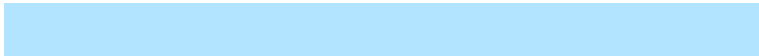
33.7709, 0.3158, 0.4798

Sweetspot

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



33.7764, 0.1904, 0.2052



72.0686, 0.2659, 0.2986



72.2455, 0.2862, 0.5503



14.7170, 0.2595, 0.2936



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.



33.7764, 0.1904, 0.2052



8.6223, 0.1529, 0.0703



19.3270, 0.2980, 0.3203



17.9414, 0.1910, 0.2075



1.9535, 0.1953, 0.2229

Inverse Universe

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



23.9409, 0.4394, 0.2194



70.7569, 0.4491, 0.4816



18.1839, 0.3193, 0.3138



12.5392, 0.4369, 0.2181



1.2417, 0.4202, 0.2088

Previews

White Background



This preview shows how the Yxy color 33.7709, 0.1903, 0.2052 looks on a white background.

Color Contrast Check

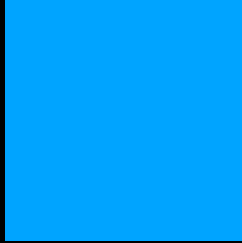
Large Text (above 18pt) WCAG AA × Fail

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 33.7709, 0.1903, 0.2052 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

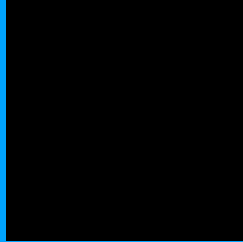
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

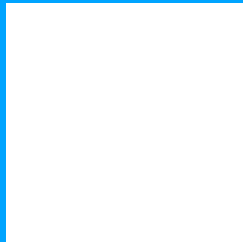
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 33.7709, 0.1903, 0.2052

Background



This preview shows how black text looks on a background with the Yxy color 33.7709, 0.1903, 0.2052.



This preview shows how white text looks on a background with the Yxy color 33.7709, 0.1903, 0.2052.

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

33.7709, 0.1903, 0.2052

Protanopia

33.5126, 0.2238, 0.2090

Deuteranopia

33.7136, 0.2070, 0.2010



Tritanopia

33.8173, 0.2191, 0.3087

Trichromacy



Original Color

33.7709, 0.1903, 0.2052

Protanomaly

32.5732, 0.2030, 0.2048

Deuteranomaly

33.3223, 0.1967, 0.2018

Tritanomaly

33.4526, 0.2069, 0.2649

Monochromacy



Original Color

33.7709, 0.1903, 0.2052

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 33.7709, 0.1903, 0.2052 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, 164, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 164, 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, 164, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 164, 255) }
```

Border

The CSS property to change the border of an element to Yxy 33.7709, 0.1903, 0.2052 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, 164, 255) }
```

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

```
.border{ border-color:rgb(0, 164, 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, 164, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 164, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 164, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 164,  
255) }
```

Background

The CSS property to change the background color of an element to Yxy 33.7709, 0.1903, 0.2052 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 164, 255) }
```

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

```
.background{ background-color: rgb(0, 164,  
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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