

Converting Colors

$Y_{xy}(38.6708, 0.2003, 0.2226)$

Have a look what the booklet for
Yxy(38.6708, 0.2003, 0.2226)
contains.

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Color

Yxy(38.5838, 0.2002, 0.2223)

Conversions

Conversions Part 1

Format	Color
Hex	33AFFF
RGB	51, 175, 255
RGB Percent	20%, 69%, 100%
CMY	0.7998, 0.3137, 0.0000
CMYK	0.80, 0.31, 0.00, 0.00
HSL	204°, 100%, 60%
HSV	204°, 80%, 100%
XYZ	34.7480, 38.5838, 100.2346
YIQ	147.0440, -99.5840, -1.4080

Conversions

Conversions Part 2

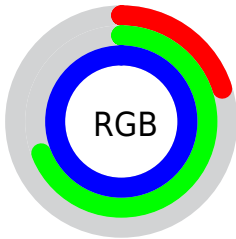
Format	Color
R _Y B	51, 128, 255
Decimal	3387391
CIE Lab	68.45, -6.48, -48.96
CIE LCh	68, 49.384, 262.457
Yxy	38.5838, 0.2002, 0.2223
Android (android.graphics.Color)	4281577471 (0xFF33AFFF)
YUV	147.0440, 53.2223, -84.2306
Hunter-Lab	62.1159, -8.8488, -52.1935

Details

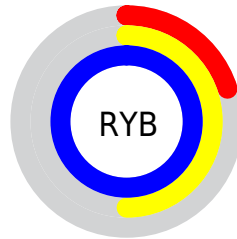
The Yxy color **38.5838, 0.2002, 0.2223** is a light color, and the websafe version is hex **0099FF**. The color can be described as light washed azure. A complement of this color would be **37.7455, 0.5232, 0.3953**, and the grayscale version is **29.0091, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.4028, 0.2417, 0.2993**, and **18.2431, 0.1887, 0.1993** is the 20% darker color. If you saturate the color by 10%, you get **34.3423, 0.1925, 0.2071**, and if you desaturate by 10%, it is **43.4772, 0.2101, 0.2377**.

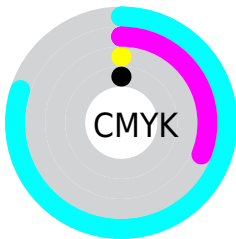
Distribution



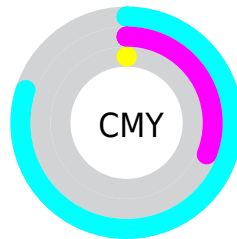
- Red (20%)
- Green (69%)
- Blue (100%)



- Red (20%)
- Yellow (50%)
- Blue (100%)



- Cyan (80%)
- Magenta (31%)
- Yellow (0%)
- Black (0%)




- Cyan (80%)
- Magenta (31%)
- Yellow (0%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 38.5838, 0.2002, 0.2223 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 38.5838, 0.2002, 0.2223 by changing the saturation by 10% instead.


 38.5838, 0.2002,
0.2223


 38.5838, 0.2002,
0.2223


340.1177, 0.2546,
0.2749


 26.4361, 0.1877,
0.2099


 73.0021, 0.2193,
0.2410


 17.1502, 0.1722,
0.1945


 96.0414, 0.2266,
0.2481

 10.3416, 0.1531,
0.1752


 123.4802, 0.2330,
0.2542

 5.6260, 0.1289,
0.1504

 155.7026, 0.2385,
0.2595

 2.6191, 0.0985,
0.1185

193.0932, 0.2433,
0.2641

 0.9363, 0.0611,
0.0783

236.0363, 0.2475,

 0.0000, 0.0000,

0.2681

0.0000

284.9164, 0.2512,
0.2717

■ 38.5838, 0.2002,
0.2223

■ 38.5838, 0.2002,
0.2223

■ 34.3423, 0.1925,
0.2071

■ 43.4772, 0.2101,
0.2377

■ 30.6606, 0.1868,
0.1924

■ 49.0792, 0.2220,
0.2531

■ 30.6540, 0.1868,
0.1923

■ 55.4396, 0.2355,
0.2680

■ 62.6021, 0.2501,
0.2822

■ 70.6063, 0.2656,
0.2955

■ 79.4886, 0.2814,
0.3078

■ 89.2829, 0.2972,
0.3189

100.0000, 0.3127,
0.3290

Harmonies

Analogous

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



38.5838, 0.1854, 0.2526



38.5838, 0.2002, 0.2223



38.5838, 0.2418, 0.2187

Triad

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



38.5838, 0.2002, 0.2223



38.5838, 0.4409, 0.3254



38.5838, 0.3044, 0.4506

Complementary

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



38.5838, 0.2002, 0.2223



37.7455, 0.5232, 0.3953

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.



38.5838, 0.3747, 0.4624



38.5838, 0.2002, 0.2223



38.5838, 0.4584, 0.3800

Square

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



38.5838, 0.2002, 0.2223



38.5838, 0.3825, 0.2756



38.5838, 0.4319, 0.4309



38.5838, 0.2402, 0.3897

Rectangle

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



38.5838, 0.2002, 0.2223



38.5838, 0.2833, 0.2291



38.5838, 0.4319, 0.4309



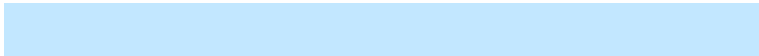
38.5838, 0.3281, 0.4605

Sweetspot

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



38.5842, 0.2002, 0.2223



75.8112, 0.2750, 0.3029



73.8161, 0.2780, 0.4993



15.5549, 0.2694, 0.2985



0.0000, 0.0000, 0.0000



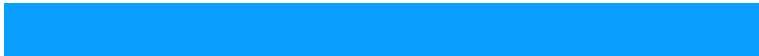
21.4041, 0.3127, 0.3290

Same Dimension

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



38.5842, 0.2002, 0.2223



32.0735, 0.1889, 0.1982



12.9359, 0.1676, 0.0989



19.2151, 0.2979, 0.3194



16.3166, 0.1874, 0.1948



1.8016, 0.1921, 0.2117

Inverse Universe

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



26.7269, 0.4182, 0.2228



23.9838, 0.4470, 0.2252



78.7664, 0.4301, 0.4807



18.1726, 0.3199, 0.3147



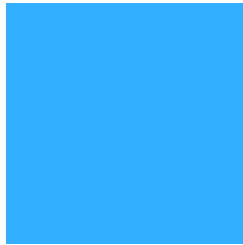
12.3751, 0.4513, 0.2260



1.2264, 0.4323, 0.2155

Previews

White Background



This preview shows how the Yxy color 38.5838, 0.2002, 0.2223 looks on a white background.

Color Contrast Check

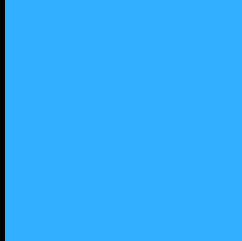
Large Text (above 18pt) WCAG AA × Fail

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 38.5838, 0.2002, 0.2223 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

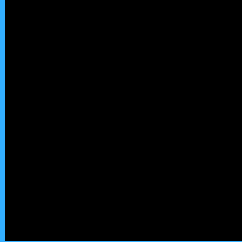
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

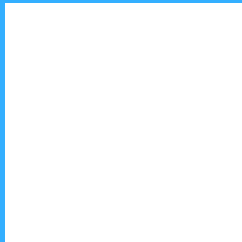
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 38.5838, 0.2002, 0.2223

Background



This preview shows how black text looks on a background with the Yxy color 38.5838, 0.2002, 0.2223.



This preview shows how white text looks on a background with the Yxy color 38.5838, 0.2002, 0.2223.

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

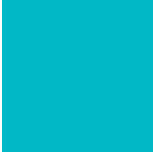
38.5838, 0.2002, 0.2223

Protanopia

38.1902, 0.2358, 0.2248

Deuteranopia

38.1233, 0.2214, 0.2151



Tritanopia

38.3582, 0.2185, 0.3067

Trichromacy



Original Color

38.5838, 0.2002, 0.2223

Protanomaly

37.5412, 0.2177, 0.2217

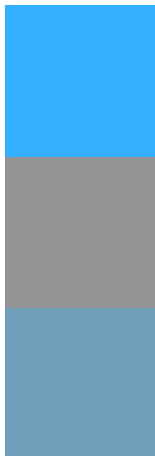
Deuteranomaly

38.0288, 0.2112, 0.2173

Tritanomaly

38.3007, 0.2102, 0.2722

Monochromacy



Original Color

38.5838, 0.2002, 0.2223

Achromatopsia

29.1771, 0.3127, 0.3290

Achromatomaly

31.1039, 0.2516, 0.2835

CSS Examples

Text

The CSS property to change the color of the text to Yxy 38.5838, 0.2002, 0.2223 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(51, 175, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 175, 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(51, 175, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 175, 255) }
```

Border

The CSS property to change the border of an element to Yxy 38.5838, 0.2002, 0.2223 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(51, 175, 255) }
```

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

```
.border{ border-color:rgb(51, 175, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 175, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 175, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 175, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 175,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 38.5838, 0.2002, 0.2223 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 175, 255) }
```

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

```
.background{ background-color: rgb(51, 175,  
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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