

Converting Colors

$Y_{xy}(31.9758, 0.1955, 0.2238)$

Have a look what the booklet for
Yxy(31.9758, 0.1955, 0.2238)
contains.

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Color

Yxy(31.8388, 0.1952, 0.2226)

Conversions

Conversions Part 1

Format	Color
Hex	00A2EB
RGB	0, 162, 235
RGB Percent	0%, 64%, 92%
CMY	0.9982, 0.3647, 0.0784
CMYK	1.00, 0.31, 0.00, 0.08
HSL	199°, 100%, 46%
HSV	199°, 100%, 92%
XYZ	27.9197, 31.8388, 83.2729
YIQ	121.8840, -119.9850, -11.6410

Conversions

Conversions Part 2

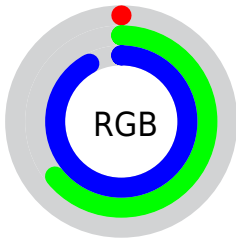
Format	Color
RYB	0, 96, 235
Decimal	41707
CIELab	63.21, -9.05, -46.33
CIELCh	63, 47.206, 258.953
Yxy	31.8388, 0.1952, 0.2226
Android (android.graphics.Color)	4278231787 (0xFF00A2EB)
YUV	121.8840, 55.7662, -106.8923
Hunter-Lab	56.4259, -10.4228, -48.0016

Details

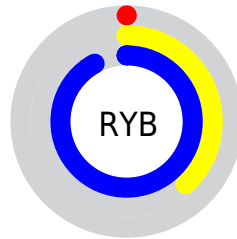
The Yxy color **31.8388, 0.1952, 0.2226** is a dark color, and the websafe version is hex **3399CC**. The color can be described as middle washed azure. A complement of this color would be **22.4919, 0.5955, 0.3652**, and the grayscale version is **19.3135, 0.3127, 0.3290**.

A 20% lighter version of the original color is **59.9715, 0.2302, 0.2822**, and **14.6236, 0.1888, 0.1998** is the 20% darker color. If you saturate the color by 10%, you get **31.7854, 0.1951, 0.2224**, and if you desaturate by 10%, it is **34.6833, 0.2001, 0.2343**.

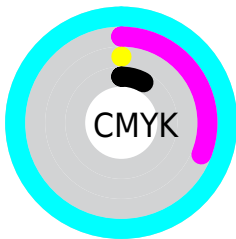
Distribution



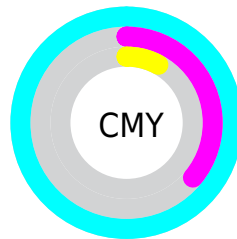
- Red (0%)
- Green (64%)
- Blue (92%)



- Red (0%)
- Yellow (38%)
- Blue (92%)



- Cyan (100%)
- Magenta (31%)
- Yellow (0%)
- Black (8%)





- Cyan (100%)
- Magenta (36%)
- Yellow (8%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 31.8388, 0.1952, 0.2226 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 31.8388, 0.1952, 0.2226 by changing the saturation by 10% instead.


 31.8388, 0.1952,
0.2226


 31.8388, 0.1952,
0.2226

310.3843, 0.2536,
0.2770

 21.2384, 0.1813,
0.2092


 62.5583, 0.2160,
0.2423

 13.2984, 0.1641,
0.1923


 83.4462, 0.2240,
0.2498


 7.6343, 0.1424,
0.1707


 108.5320, 0.2308,
0.2561

 3.8619, 0.1148,
0.1425

 138.2002, 0.2366,
0.2615

 1.5966, 0.0803,
0.1056

 172.8351, 0.2417,
0.2662

 0.3553, 0.0160,
0.0487

212.8212, 0.2462,

 0.0000, 0.0000,

0.2702

0.0000

258.5428, 0.2501,
0.2738

■ 31.8388, 0.1952,
0.2226

■ 31.8388, 0.1952,
0.2226

■ 31.7854, 0.1951,
0.2224

■ 34.6833, 0.2001,
0.2343

■ 37.9102, 0.2068,
0.2462

■ 41.5930, 0.2155,
0.2582

■ 45.7763, 0.2262,
0.2700

■ 50.4977, 0.2385,
0.2815

■ 55.7906, 0.2522,
0.2925

■ 61.6850, 0.2669,
0.3029

■ 68.2084, 0.2821,
0.3124

■ 75.3864, 0.2976,
0.3212

Harmonies

Analogous

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



31.8388, 0.1834, 0.2567



31.8388, 0.1952, 0.2226



31.8388, 0.2343, 0.2161

Triad

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



31.8388, 0.1952, 0.2226



31.8388, 0.4382, 0.3189



31.8388, 0.3125, 0.4575

Complementary

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



31.8388, 0.1952, 0.2226



22.4919, 0.5955, 0.3652

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.



31.8388, 0.3834, 0.4629



31.8388, 0.1952, 0.2226



31.8388, 0.4614, 0.3740

Square

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



31.8388, 0.1952, 0.2226



31.8388, 0.3751, 0.2694



31.8388, 0.4389, 0.4270



31.8388, 0.2455, 0.4000

Rectangle

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



31.8388, 0.1952, 0.2226



31.8388, 0.2746, 0.2250



31.8388, 0.4389, 0.4270



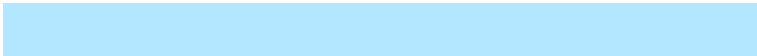
31.8388, 0.3367, 0.4653

Sweetspot

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



31.8398, 0.1952, 0.2226



74.0002, 0.2664, 0.3025



59.8742, 0.2894, 0.5618



15.1789, 0.2601, 0.2982



0.0000, 0.0000, 0.0000



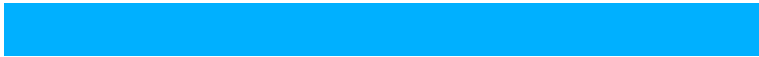
21.4041, 0.3127, 0.3290

Same Dimension

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



31.8398, 0.1952, 0.2226



38.1218, 0.1950, 0.2219



8.0646, 0.1550, 0.0780



16.2848, 0.2981, 0.3215



17.9271, 0.1956, 0.2242



1.5778, 0.2001, 0.2405

Inverse Universe

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



20.2813, 0.4204, 0.2091



24.3796, 0.4212, 0.2094



53.6713, 0.4603, 0.4726



15.2293, 0.3185, 0.3129



11.3026, 0.4187, 0.2080



0.9047, 0.4018, 0.1987

Previews

White Background



This preview shows how the Yxy color 31.8388, 0.1952, 0.2226 looks on a white background.

Color Contrast Check

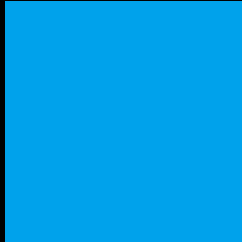
Large Text (above 18pt) WCAG AA × Fail

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 31.8388, 0.1952, 0.2226 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

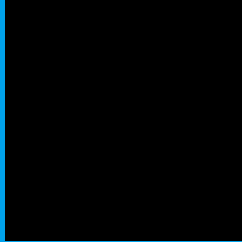
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

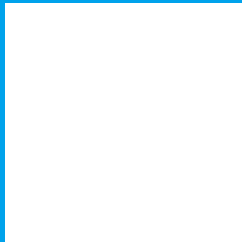
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 31.8388, 0.1952, 0.2226

Background



This preview shows how black text looks on a background with the Yxy color 31.8388, 0.1952, 0.2226.



This preview shows how white text looks on a background with the Yxy color 31.8388, 0.1952, 0.2226.

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

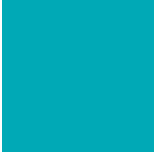
31.8388, 0.1952, 0.2226

Protanopia

31.7065, 0.2370, 0.2269

Deuteranopia

31.6967, 0.2189, 0.2130



Tritanopia

31.7533, 0.2185, 0.3066

Trichromacy



Original Color

31.8388, 0.1952, 0.2226

Protanomaly

30.4620, 0.2111, 0.2221

Deuteranomaly

31.0620, 0.2039, 0.2153

Tritanomaly

31.4895, 0.2089, 0.2721

Monochromacy



Original Color

31.8388, 0.1952, 0.2226

Achromatopsia

19.4618, 0.3127, 0.3290

Achromatomaly

22.1554, 0.2373, 0.2812

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.8388, 0.1952, 0.2226 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, 162, 235)` looks like.

```
.text, #text, p{  
    color:rgb(0, 162, 235)  
}
```

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, 162, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 162, 235) }
```

Border

The CSS property to change the border of an element to Yxy 31.8388, 0.1952, 0.2226 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, 162, 235) }
```

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

```
.border{ border-color:rgb(0, 162, 235) }
```

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

Here you see how a box with a 4 pixel rgb(0, 162, 235) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 162, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 162, 235);  
box-shadow:4px 4px 4px 4px rgb(0, 162,  
235) }
```


Background

The CSS property to change the background color of an element to Yxy 31.8388, 0.1952, 0.2226 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 162, 235) }
```

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

```
.background{ background-color: rgb(0, 162,  
235) }
```

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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