

Converting Colors

$Y_{xy}(31.8148, 0.1920, 0.2110)$

Have a look what the booklet for
Yxy(31.8148, 0.1920, 0.2110)
contains.

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Color

Yxy(31.6797, 0.1918, 0.2101)

Conversions

Conversions Part 1

Format	Color
Hex	02A0F4
RGB	2, 160, 244
RGB Percent	1%, 63%, 96%
CMY	0.9928, 0.3726, 0.0431
CMYK	0.99, 0.34, 0.00, 0.04
HSL	201°, 99%, 48%
HSV	201°, 99%, 96%
XYZ	28.9204, 31.6797, 90.1839
YIQ	122.3340, -121.1320, -7.3720

Conversions

Conversions Part 2

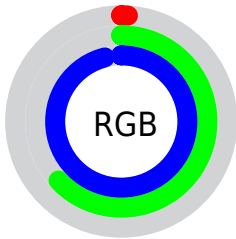
Format	Color
R _Y B	2, 98, 244
Decimal	172276
CIE Lab	63.08, -4.55, -51.48
CIE LCh	63, 51.685, 264.948
Yxy	31.6797, 0.1918, 0.2101
Android (android.graphics.Color)	4278362356 (0xFF02A0F4)
YUV	122.3340, 59.9813, -105.5329
Hunter-Lab	56.2847, -6.7810, -55.5998

Details

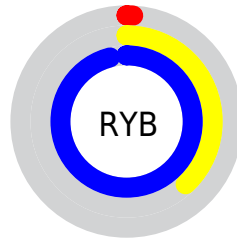
The Yxy color **31.6797, 0.1918, 0.2101** is a dark color, and the websafe version is hex **0099FF**. The color can be described as middle saturated azure. A complement of this color would be **25.8706, 0.5854, 0.3727**, and the grayscale version is **19.3870, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.6281, 0.2305, 0.2785**, and **14.5251, 0.1851, 0.1862** is the 20% darker color. If you saturate the color by 10%, you get **31.4491, 0.1914, 0.2091**, and if you desaturate by 10%, it is **34.9272, 0.1971, 0.2232**.

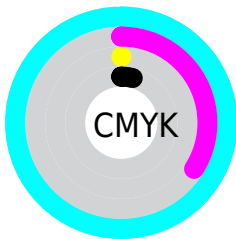
Distribution



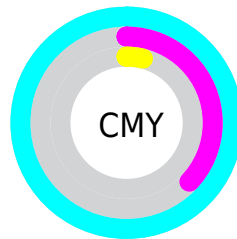
- Red (1%)
- Green (63%)
- Blue (96%)



- Red (1%)
- Yellow (38%)
- Blue (96%)



- Cyan (99%)
- Magenta (34%)
- Yellow (0%)
- Black (4%)



- Cyan (99%)
- Magenta (37%)
- Yellow (4%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 31.6797, 0.1918, 0.2101 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 31.6797, 0.1918, 0.2101 by changing the saturation by 10% instead.

■ 31.6797, 0.1918,
0.2101

■ 31.6797, 0.1918,
0.2101

■ 309.6576, 0.2517,
0.2698

■ 21.1170, 0.1777,
0.1958

■ 62.3086, 0.2130,
0.2315

■ 13.2095, 0.1603,
0.1781

■ 83.1436, 0.2212,
0.2396

■ 7.5730, 0.1387,
0.1557

■ 108.1715, 0.2282,
0.2466

■ 3.8230, 0.1115,
0.1273

■ 137.7766, 0.2342,
0.2525

■ 1.5750, 0.0779,
0.0916

■ 172.3433, 0.2394,
0.2577

■ 0.3407, 0.0244,
0.0390

212.2562, 0.2440,

■ 0.0000, 0.0000,

0.2622

0.0000

257.8995, 0.2480,
0.2662

■ 31.6797, 0.1918,
0.2101

■ 31.6797, 0.1918,
0.2101

■ 31.4491, 0.1914,
0.2091

■ 34.9272, 0.1971,
0.2232

■ 38.6381, 0.2044,
0.2366

■ 42.8878, 0.2138,
0.2501

■ 47.7256, 0.2251,
0.2634

■ 53.1938, 0.2380,
0.2764

■ 59.3295, 0.2522,
0.2888

■ 66.1665, 0.2673,
0.3003

■ 73.7358, 0.2828,
0.3110

■ 82.0663, 0.2984,
0.3208

Harmonies

Analogous

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



31.6797, 0.1733, 0.2396



31.6797, 0.1918, 0.2101



31.6797, 0.2392, 0.2089

Triad

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



31.6797, 0.1918, 0.2101



31.6797, 0.4595, 0.3285



31.6797, 0.2957, 0.4630

Complementary

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



31.6797, 0.1918, 0.2101



25.8706, 0.5854, 0.3727

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.



31.6797, 0.3735, 0.4791



31.6797, 0.1918, 0.2101



31.6797, 0.4736, 0.3879

Square

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



31.6797, 0.1918, 0.2101



31.6797, 0.3970, 0.2739



31.6797, 0.4393, 0.4441



31.6797, 0.2267, 0.3899

Rectangle

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



31.6797, 0.1918, 0.2101



31.6797, 0.2859, 0.2217



31.6797, 0.4393, 0.4441



31.6797, 0.3217, 0.4755

Sweetspot

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



31.6807, 0.1918, 0.2101



72.4838, 0.2660, 0.2994



65.3355, 0.2870, 0.5529



14.8162, 0.2596, 0.2946



0.0000, 0.0000, 0.0000



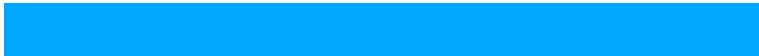
21.4041, 0.3127, 0.3290

Same Dimension

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



31.6807, 0.1918, 0.2101



34.6852, 0.1914, 0.2088



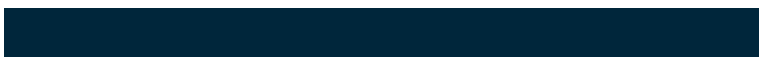
8.2137, 0.1539, 0.0735



17.7334, 0.2980, 0.3206



17.3643, 0.1920, 0.2112



1.7177, 0.1966, 0.2277

Inverse Universe

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



21.8118, 0.4339, 0.2167



24.0326, 0.4354, 0.2172



62.2556, 0.4523, 0.4787



16.6649, 0.3191, 0.3137



11.8523, 0.4328, 0.2158



1.0610, 0.4151, 0.2060

Previews

White Background



This preview shows how the Yxy color 31.6797, 0.1918, 0.2101 looks on a white background.

Color Contrast Check

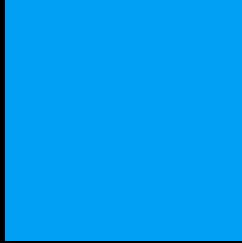
Large Text (above 18pt) WCAG AA × Fail

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 31.6797, 0.1918, 0.2101 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

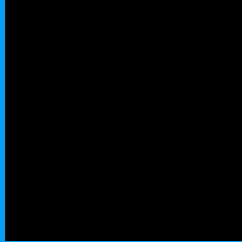
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

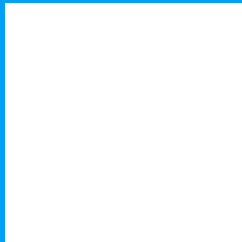
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 31.6797, 0.1918, 0.2101

Background



This preview shows how black text looks on a background with the Yxy color 31.6797, 0.1918, 0.2101.



This preview shows how white text looks on a background with the Yxy color 31.6797, 0.1918, 0.2101.

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

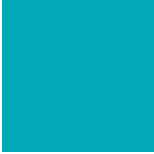
31.6862, 0.1918, 0.2101

Protanopia

31.5004, 0.2276, 0.2141

Deuteranopia

31.5432, 0.2093, 0.2026



Tritanopia

31.7121, 0.2190, 0.3082

Trichromacy



Original Color

31.6862, 0.1918, 0.2101

Protanomaly

30.5752, 0.2056, 0.2098

Deuteranomaly

31.0274, 0.1983, 0.2042

Tritanomaly

31.6385, 0.2078, 0.2678

Monochromacy



Original Color

31.6862, 0.1918, 0.2101

Achromatopsia

19.4618, 0.3127, 0.3290

Achromatomaly

21.9812, 0.2350, 0.2743

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.6797, 0.1918, 0.2101 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(2, 160, 244)` looks like.

```
.text, #text, p{  
    color:rgb(2, 160, 244)  
}
```

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(2, 160, 244) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(2, 160, 244) }
```

Border

The CSS property to change the border of an element to Yxy 31.6797, 0.1918, 0.2101 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(2, 160, 244) }
```

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

```
.border{ border-color:rgb(2, 160, 244) }
```

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

Here you see how a box with a 4 pixel rgb(2, 160, 244) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(2, 160, 244); -webkit-box-  
shadow:4px 4px 4px 4px rgb(2, 160, 244);  
box-shadow:4px 4px 4px 4px rgb(2, 160,  
244) }
```


Background

The CSS property to change the background color of an element to Yxy 31.6797, 0.1918, 0.2101 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(2, 160, 244) }
```

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

```
.background{ background-color: rgb(2, 160,  
244) }
```

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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