

# Converting Colors

$Y_{xy}(30.7687, 0.1938, 0.2178)$

Have a look what the booklet for  
Yxy(30.7687, 0.1938, 0.2178)  
contains.

<b>Yxy(30.7944, 0.1939, 0.2180)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(30.7944, 0.1939, 0.2180)**

# Conversions

## Conversions Part 1

Format	Color
Hex	009FEB
RGB	0, 159, 235
RGB Percent	0%, 62%, 92%
CMY	0.9997, 0.3764, 0.0785
CMYK	1.00, 0.32, 0.00, 0.08
HSL	199°, 100%, 46%
HSV	199°, 100%, 92%
XYZ	27.3901, 30.7944, 83.0743
YIQ	120.1230, -119.1600, -10.0720

# Conversions

## Conversions Part 2

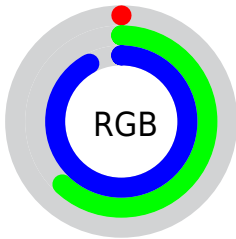
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 95, 235
Decimal	40939
CIELab	62.33, -7.39, -47.70
CIELCh	62, 48.264, 261.197
Yxy	30.7944, 0.1939, 0.2180
Android (android.graphics.Color)	4278231019 (0xFF009FEB)
YUV	120.1230, 56.6344, -105.3479
Hunter-Lab	55.4927, -9.0083, -49.9140

# Details

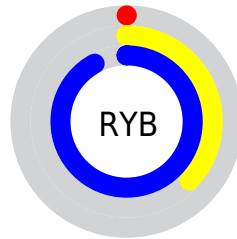
The Yxy color **30.7944, 0.1939, 0.2180** is a dark color, and the websafe version is hex **3399CC**. The color can be described as dark washed azure. A complement of this color would be **22.8314, 0.5929, 0.3674**, and the grayscale version is **18.6756, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.9343, 0.2291, 0.2771**, and **13.9798, 0.1872, 0.1939** is the 20% darker color. If you saturate the color by 10%, you get **30.7866, 0.1939, 0.2180**, and if you desaturate by 10%, it is **33.6784, 0.1989, 0.2302**.

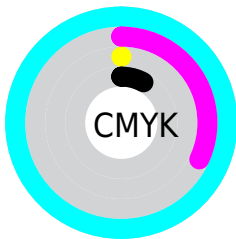
# Distribution



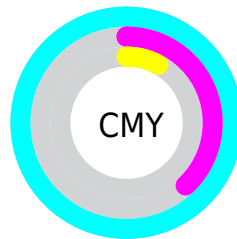
- Red (0%)
- Green (62%)
- Blue (92%)



- Red (0%)
- Yellow (37%)
- Blue (92%)



- Cyan (100%)
- Magenta (32%)
- Yellow (0%)
- Black (8%)



- Cyan (100%)
- Magenta (38%)
- Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.7944, 0.1939, 0.2180 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 30.7944, 0.1939, 0.2180 by changing the saturation by 10% instead.





 30.7944, 0.1939,  
0.2180


 30.7944, 0.1939,  
0.2180


305.5900, 0.2532,  
0.2747


 20.4423, 0.1798,  
0.2041


 60.9162, 0.2151,  
0.2385


 12.7170, 0.1622,  
0.1866


 81.4548, 0.2232,  
0.2463


 7.2340, 0.1402,  
0.1643


 106.1576, 0.2301,  
0.2529

 3.6088, 0.1122,  
0.1354

 135.4092, 0.2360,  
0.2585

 1.4573, 0.0773,  
0.0981

 169.5938, 0.2411,  
0.2634

 0.2584, 0.0092,  
0.0363

209.0958, 0.2457,

 0.0000, 0.0000,

0.2676

0.0000

254.2998, 0.2496,  
0.2714

■ 30.7944, 0.1939,  
0.2180

■ 30.7944, 0.1939,  
0.2180

■ 30.7866, 0.1939,  
0.2180

■ 33.6784, 0.1989,  
0.2302

■ 36.9534, 0.2057,  
0.2426

■ 40.6948, 0.2146,  
0.2550

■ 44.9476, 0.2254,  
0.2674

■ 49.7499, 0.2379,  
0.2794

■ 55.1352, 0.2517,  
0.2909

■ 61.1340, 0.2665,  
0.3016

■ 67.7740, 0.2818,  
0.3116

■ 75.0812, 0.2973,  
0.3208

# Harmonies

## Analogous

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



30.7944, 0.1796, 0.2505



30.7944, 0.1939, 0.2180



30.7944, 0.2360, 0.2134

# Triad

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



30.7944, 0.1939, 0.2180



30.7944, 0.4459, 0.3223



30.7944, 0.3065, 0.4596

# Complementary

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



30.7944, 0.1939, 0.2180



22.8314, 0.5929, 0.3674

# 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.



30.7944, 0.3799, 0.4687



30.7944, 0.1939, 0.2180



30.7944, 0.4660, 0.3790

# Square

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



30.7944, 0.1939, 0.2180



30.7944, 0.3829, 0.2710



30.7944, 0.4393, 0.4331



30.7944, 0.2387, 0.3966



# Rectangle

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



30.7944, 0.1939, 0.2180



30.7944, 0.2786, 0.2237



30.7944, 0.4393, 0.4331



30.7944, 0.3314, 0.4690

# Sweetspot

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



30.7954, 0.1939, 0.2180



73.4829, 0.2662, 0.3015



59.9006, 0.2883, 0.5580



15.0550, 0.2599, 0.2970



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

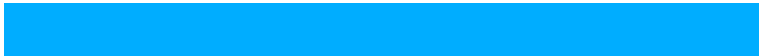


# Same Dimension

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



30.7954, 0.1939, 0.2180



36.9289, 0.1937, 0.2174



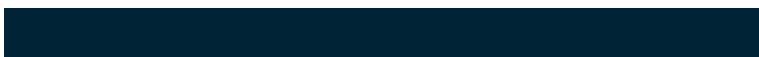
7.7348, 0.1542, 0.0752



16.2529, 0.2981, 0.3212



17.3803, 0.1944, 0.2199



1.5380, 0.1991, 0.2368



# Inverse Universe

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



20.1621, 0.4254, 0.2117



24.2591, 0.4260, 0.2120



55.3152, 0.4565, 0.4757



15.2261, 0.3187, 0.3132



11.2474, 0.4233, 0.2106



0.9007, 0.4056, 0.2008



# Previews

## White Background



This preview shows how the Yxy color 30.7944, 0.1939, 0.2180 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

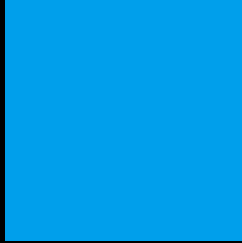
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 30.7944, 0.1939, 0.2180 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

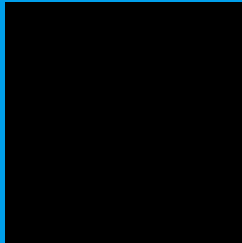
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

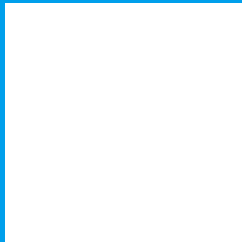
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 30.7944, 0.1939, 0.2180**

## **Background**



This preview shows how black text looks on a background with the Yxy color 30.7944, 0.1939, 0.2180.



This preview shows how white text looks on a background with the Yxy color 30.7944, 0.1939, 0.2180.

# 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

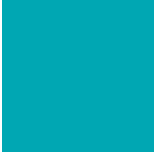
30.7944, 0.1939, 0.2180

### Protanopia

30.5146, 0.2331, 0.2209

### Deuteranopia

30.6938, 0.2152, 0.2093



## **Tritanopia**

30.8921, 0.2189, 0.3080

# Trichromacy



**Original Color**

30.7944, 0.1939, 0.2180

**Protanomaly**

29.4101, 0.2084, 0.2161

**Deuteranomaly**

29.9286, 0.2015, 0.2105

**Tritanomaly**

30.6744, 0.2088, 0.2715

# Monochromacy



**Original Color**

30.7944, 0.1939, 0.2180

**Achromatopsia**

18.7821, 0.3127, 0.3290

**Achromatomaly**

21.1953, 0.2355, 0.2769

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.7944, 0.1939, 0.2180 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, 159, 235)` looks like.

```
.text, #text, p{  
    color:rgb(0, 159, 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, 159, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 159, 235) }
```

## Border

The CSS property to change the border of an element to Yxy 30.7944, 0.1939, 0.2180 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, 159, 235) }
```

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

```
.border{ border-color:rgb(0, 159, 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, 159, 235) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 159, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 159, 235);  
box-shadow:4px 4px 4px 4px rgb(0, 159,  
235) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.7944, 0.1939, 0.2180 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 159, 235) }
```

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

```
.background{ background-color: rgb(0, 159,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor