

# Converting Colors

$Y_{xy}(27.8512, 0.1750, 0.1845)$

Have a look what the booklet for  
Yxy(27.8512, 0.1750, 0.1845)  
contains.

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# Color

**Yxy(28.9045, 0.1853, 0.1870)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0096FD
RGB	0, 150, 253
RGB Percent	0%, 59%, 99%
CMY	0.9989, 0.4118, 0.0077
CMYK	1.00, 0.41, 0.00, 0.01
HSL	204°, 100%, 50%
HSV	204°, 100%, 99%
XYZ	28.6417, 28.9045, 97.0233
YIQ	116.8920, -122.4630, 0.2330

# Conversions

## Conversions Part 2

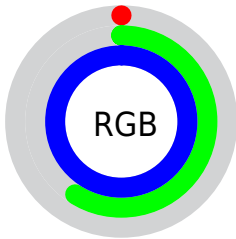
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	0, 94, 253
Decimal	38653
CIE Lab	60.70, 4.62, -60.22
CIE LCh	61, 60.398, 274.390
Yxy	28.9045, 0.1853, 0.1870
Android (android.graphics.Color)	4278228733 (0xFF0096FD)
YUV	116.8920, 67.1012, -102.5143
Hunter-Lab	53.7629, 1.0093, -69.3637

# Details

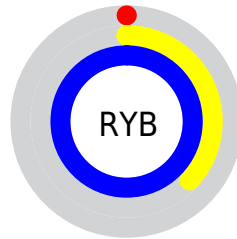
The Yxy color **28.9045, 0.1853, 0.1870** is a dark color, and the websafe version is hex **0099FF**. The color can be described as middle saturated azure. A complement of this color would be **30.6540, 0.5705, 0.3852**, and the grayscale version is **17.5981, 0.3127, 0.3290**.

A 20% lighter version of the original color is **53.7852, 0.2281, 0.2656**, and **13.0999, 0.1779, 0.1605** is the 20% darker color. If you saturate the color by 10%, you get **28.8667, 0.1852, 0.1868**, and if you desaturate by 10%, it is **32.5559, 0.1912, 0.2023**.

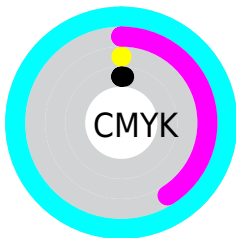
# Distribution



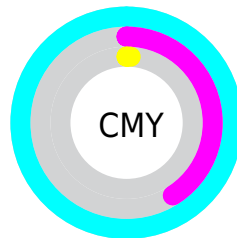
- Red (0%)
- Green (59%)
- Blue (99%)



- Red (0%)
- Yellow (37%)
- Blue (99%)



- Cyan (100%)
- Magenta (41%)
- Yellow (0%)
- Black (1%)




- Cyan (100%)
- Magenta (41%)
- Yellow (1%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.9045, 0.1853, 0.1870 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 28.9045, 0.1853, 0.1870 by changing the saturation by 10% instead.




 28.9045, 0.1853,  
0.1870


 28.9045, 0.1853,  
0.1870

296.7641, 0.2487,  
0.2567


 19.0086, 0.1705,  
0.1710


 57.9253, 0.2078,  
0.2115


 11.6765, 0.1523,  
0.1515


 77.8190, 0.2164,  
0.2210

 6.5238, 0.1299,  
0.1277


 101.8141, 0.2238,  
0.2291

 3.1661, 0.1023,  
0.0987

 130.2950, 0.2302,  
0.2361

 1.2191, 0.0692,  
0.0647

 163.6460, 0.2357,  
0.2423

 0.0772, 0.0189,  
0.0078

202.2516, 0.2406,

 0.0000, 0.0000,

0.2477

0.0000

246.4962, 0.2449,  
0.2524

■ 28.9045, 0.1853,  
0.1870

■ 28.9045, 0.1853,  
0.1870

■ 28.8667, 0.1852,  
0.1868

■ 32.5559, 0.1912,  
0.2023

■ 36.7779, 0.1991,  
0.2181

■ 41.6605, 0.2093,  
0.2341

■ 47.2612, 0.2214,  
0.2501

■ 53.6292, 0.2351,  
0.2656

■ 60.8081, 0.2500,  
0.2804

■ 68.8372, 0.2656,  
0.2943

■ 77.7531, 0.2815,  
0.3070

■ 87.5895, 0.2973,  
0.3187

# Harmonies

## Analogous

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



28.9045, 0.1545, 0.2080



28.9045, 0.1853, 0.1870



28.9045, 0.2493, 0.1954

# Triad

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



28.9045, 0.1853, 0.1870



28.9045, 0.5006, 0.3456



28.9045, 0.2617, 0.4724

# Complementary

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



28.9045, 0.1853, 0.1870



30.6540, 0.5705, 0.3852

# 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.



28.9045, 0.3518, 0.5131



28.9045, 0.1853, 0.1870



28.9045, 0.4943, 0.4140

# Square

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



28.9045, 0.1853, 0.1870



28.9045, 0.4425, 0.2818



28.9045, 0.4366, 0.4792

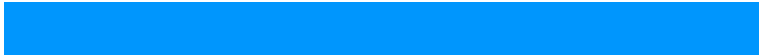


28.9045, 0.1907, 0.3667



# Rectangle

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



28.9045, 0.1853, 0.1870



28.9045, 0.3097, 0.2151



28.9045, 0.4366, 0.4792



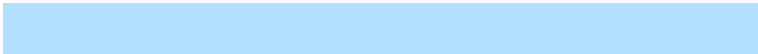
28.9045, 0.2908, 0.4957

# Sweetspot

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



28.9054, 0.1853, 0.1870



69.9548, 0.2654, 0.2941



71.2191, 0.2822, 0.5359



14.2133, 0.2588, 0.2884



0.0000, 0.0000, 0.0000

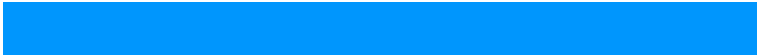


21.4041, 0.3127, 0.3290

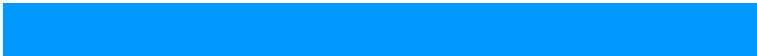


# Same Dimension

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



28.9054, 0.1853, 0.1870



29.3666, 0.1852, 0.1868



7.8150, 0.1515, 0.0654



19.1667, 0.2979, 0.3191



15.6457, 0.1859, 0.1893



1.7383, 0.1908, 0.2068



# Inverse Universe

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



23.0963, 0.4602, 0.2310



23.4957, 0.4605, 0.2311



76.2418, 0.4384, 0.4901



18.1677, 0.3201, 0.3150



12.3074, 0.4576, 0.2294



1.2200, 0.4377, 0.2185



# Previews

## White Background



This preview shows how the Yxy color 28.9045, 0.1853, 0.1870 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

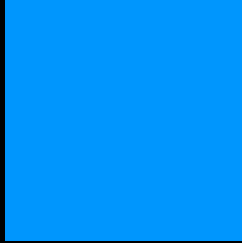
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 28.9045, 0.1853, 0.1870 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

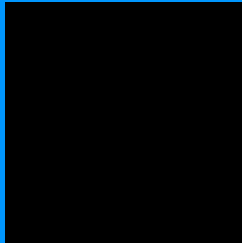
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

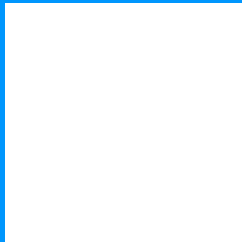
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 28.9045, 0.1853, 0.1870**

## **Background**



This preview shows how black text looks on a background with the Yxy color 28.9045, 0.1853, 0.1870.



This preview shows how white text looks on a background with the Yxy color 28.9045, 0.1853, 0.1870.

# 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

28.9045, 0.1853, 0.1870

### Protanopia

28.7634, 0.2100, 0.1909

### Deuteranopia

28.8639, 0.1913, 0.1843



## Tritanopia

28.8578, 0.2192, 0.3091

# Trichromacy



**Original Color**

28.9045, 0.1853, 0.1870

**Protanomaly**

28.1519, 0.1949, 0.1876

**Deuteranomaly**

28.7106, 0.1876, 0.1844

**Tritanomaly**

28.7180, 0.2047, 0.2568

# Monochromacy



**Original Color**

28.9045, 0.1853, 0.1870

**Achromatopsia**

17.7888, 0.3127, 0.3290

**Achromatomaly**

19.9495, 0.2303, 0.2605

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.9045, 0.1853, 0.1870 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, 150, 253)` looks like.

```
.text, #text, p{  
    color:rgb(0, 150, 253)  
}
```

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, 150, 253) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 150, 253) }
```

## Border

The CSS property to change the border of an element to Yxy 28.9045, 0.1853, 0.1870 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, 150, 253) }
```

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

```
.border{ border-color:rgb(0, 150, 253) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 150, 253)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 150, 253); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 150, 253);  
box-shadow:4px 4px 4px 4px rgb(0, 150,  
253) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.9045, 0.1853, 0.1870 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 150, 253) }
```

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

```
.background{ background-color: rgb(0, 150,  
253) }
```

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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