

# Converting Colors

$Y_{xy}(59.5067, 0.1596, 0.2363)$

Have a look what the booklet for  
Yxy(59.5067, 0.1596, 0.2363)  
contains.

<b>Yxy(63.8136, 0.2159, 0.2973)</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> .....	22
<b><i>Color Blindness Simulation</i></b> .....	25
<b><i>CSS Examples</i></b> .....	28

# Color

**Yxy(63.8136, 0.2159, 0.2973)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00E6FF
RGB	0, 230, 255
RGB Percent	0%, 90%, 100%
CMY	1.0000, 0.0980, 0.0000
CMYK	1.00, 0.10, 0.00, 0.00
HSL	186°, 100%, 50%
HSV	186°, 100%, 100%
XYZ	46.3416, 63.8136, 104.4886
YIQ	164.0800, -145.1050, -40.9850

# Conversions

## Conversions Part 2

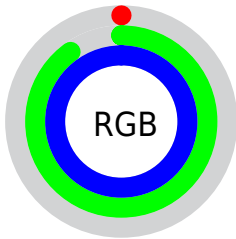
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 121, 255
Decimal	59135
CIELab	83.87, -36.94, -25.09
CIELCh	84, 44.649, 214.183
Yxy	63.8136, 0.2159, 0.2973
Android (android.graphics.Color)	4278249215 (0xFF00E6FF)
YUV	164.0800, 44.8236, -143.8982
Hunter-Lab	79.8834, -36.2454, -21.6337

# Details

The Yxy color **63.8136, 0.2159, 0.2973** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light saturated cyan. A complement of this color would be **21.9548, 0.6341, 0.3347**, and the grayscale version is **37.0017, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.5916, 0.2440, 0.3288**, and **34.3493, 0.2139, 0.2901** is the 20% darker color. If you saturate the color by 10%, you get **63.8191, 0.2159, 0.2973**, and if you desaturate by 10%, it is **65.4332, 0.2181, 0.3007**.

# Distribution



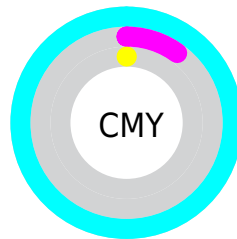
- Red (0%)
- Green (90%)
- Blue (100%)



- Red (0%)
- Yellow (47%)
- Blue (100%)



- Cyan (100%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (10%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.8136, 0.2159, 0.2973 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 63.8136, 0.2159, 0.2973 by changing the saturation by 10% instead.




 63.8136, 0.2159,  
0.2973

 63.8136, 0.2159,  
0.2973


438.5162, 0.2597,  
0.3138


 46.4997, 0.2063,  
0.2931

 110.3424, 0.2308,  
0.3034

 32.6403, 0.1946,  
0.2878

 140.3262, 0.2367,  
0.3056


 21.8511, 0.1802,  
0.2807


 175.3020, 0.2418,  
0.3076

 13.7475, 0.1621,  
0.2711

 215.6543, 0.2463,  
0.3092

 7.9453, 0.1389,  
0.2573

 261.7675, 0.2502,  
0.3106

 4.0599, 0.1088,  
0.2365

314.0260, 0.2537,

 1.7072, 0.0666,

0.3118

0.2038

372.8141, 0.2569,  
0.3129

■ 0.4283, 0.0000,  
0.1309

■ 0.0000, 0.0000,  
0.0000

■ 63.8136, 0.2159,  
0.2973

■ 63.8136, 0.2159,  
0.2973

■ 63.8191, 0.2159,  
0.2973

■ 65.4332, 0.2181,  
0.3007

■ 67.3450, 0.2218,  
0.3041

■ 69.6394, 0.2274,  
0.3075

■ 72.3684, 0.2350,  
0.3109

■ 75.5758, 0.2445,  
0.3143

■ 79.2995, 0.2557,  
0.3176

■ 83.5738, 0.2684,  
0.3207

■ 88.4298, 0.2824,  
0.3237

■ 93.8963, 0.2972,  
0.3265

# Harmonies

## Analogous

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



63.8136, 0.2415, 0.3525



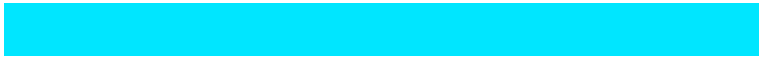
63.8136, 0.2159, 0.2973



63.8136, 0.2138, 0.2584

# Triad

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



63.8136, 0.2159, 0.2973



63.8136, 0.3319, 0.2671



63.8136, 0.3916, 0.4214

# Complementary

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



63.8136, 0.2159, 0.2973



21.9548, 0.6341, 0.3347

# 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.



63.8136, 0.4213, 0.3882



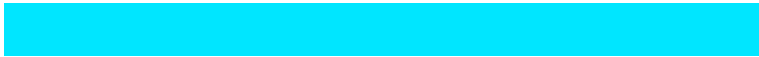
63.8136, 0.2159, 0.2973



63.8136, 0.3864, 0.3026

# Square

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



63.8136, 0.2159, 0.2973



63.8136, 0.2763, 0.2453



63.8136, 0.4202, 0.3453



63.8136, 0.3419, 0.4308

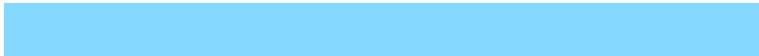


# Rectangle

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



63.8136, 0.2159, 0.2973



63.8136, 0.2252, 0.2446



63.8136, 0.4202, 0.3453



63.8136, 0.4043, 0.4123

# Sweetspot

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



63.8191, 0.2159, 0.2973



83.5738, 0.2684, 0.3207



71.5751, 0.2989, 0.5959



17.4877, 0.2629, 0.3194



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.



63.8191, 0.2159, 0.2973



17.5797, 0.1688, 0.1278



20.1591, 0.2980, 0.3266



33.4712, 0.2161, 0.2979



3.3435, 0.2172, 0.3017

# Inverse Universe

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



26.9737, 0.3478, 0.1690



42.6759, 0.5188, 0.4262



18.2679, 0.3153, 0.3078



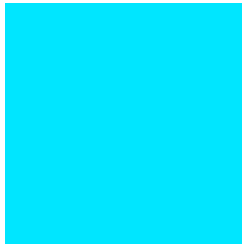
14.1069, 0.3473, 0.1687



1.3821, 0.3439, 0.1668

# Previews

## White Background



This preview shows how the Yxy color 63.8136, 0.2159, 0.2973 looks on a white background.

## Color Contrast Check

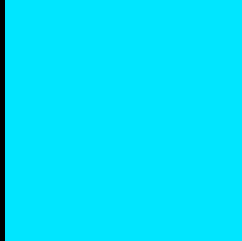
Large Text (above 18pt) WCAG AA × Fail

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 63.8136, 0.2159, 0.2973 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

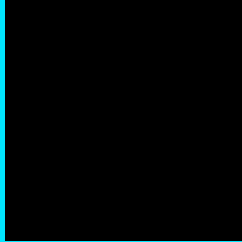
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 63.8136, 0.2159, 0.2973**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.8136, 0.2159, 0.2973.



This preview shows how white text looks on a background with the Yxy color 63.8136, 0.2159, 0.2973.



# 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

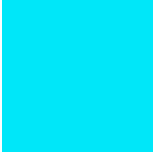
63.8136, 0.2159, 0.2973

### Protanopia

62.9312, 0.2878, 0.2921

### Deuteranopia

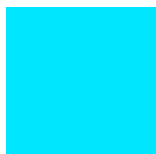
62.8232, 0.2772, 0.2732



## Tritanopia

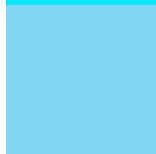
63.9914, 0.2183, 0.3058

# Trichromacy



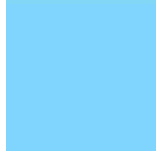
## Original Color

63.8136, 0.2159, 0.2973



## Protanomaly

59.8606, 0.2431, 0.2920



## Deuteranomaly

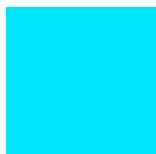
59.3977, 0.2376, 0.2782



## Tritanomaly

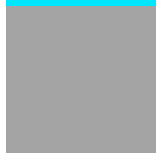
64.1169, 0.2176, 0.3034

# Monochromacy



## Original Color

63.8136, 0.2159, 0.2973



## Achromatopsia

37.1238, 0.3127, 0.3290



## Achromatomaly

42.9407, 0.2482, 0.3156

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  63.8136, 0.2159, 0.2973 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, 230, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 230, 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(0, 230, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 230, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 63.8136, 0.2159, 0.2973 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, 230, 255) }
```

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

```
.border{ border-color:rgb(0, 230, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 230, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 230, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 230, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 230,  
255) }
```

# Background

The CSS property to change the background color of an element to Yxy 63.8136, 0.2159, 0.2973 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 230, 255) }
```

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

```
.background{ background-color: rgb(0, 230,  
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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