

# Converting Colors

$Y_{xy}(77.9658, 0.2302, 0.3464)$

Have a look what the booklet for  
Yxy(77.9658, 0.2302, 0.3464)  
contains.

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# Color

**Yxy(77.9810, 0.2301, 0.3460)**

# Conversions

## Conversions Part 1

Format	Color
Hex	11FFF1
RGB	17, 255, 241
RGB Percent	7%, 100%, 95%
CMY	0.9344, 0.0000, 0.0549
CMYK	0.93, 0.00, 0.05, 0.00
HSL	176°, 100%, 53%
HSV	176°, 93%, 100%
XYZ	51.8596, 77.9810, 95.5380
YIQ	182.2420, -137.3540, -54.8100

# Conversions

## Conversions Part 2

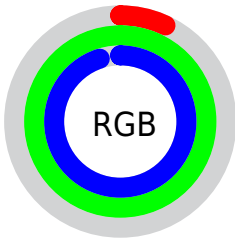
<b>Format</b>	<b>Color</b>
<b>RYB</b>	17, 140, 255
Decimal	1179633
CIELab	90.77, -51.65, -7.38
CIELCh	91, 52.175, 188.134
Yxy	77.9810, 0.2301, 0.3460
Android (android.graphics.Color)	4279369713 (0xFF11FFF1)
YUV	182.2420, 28.9677, -144.9172
Hunter-Lab	88.3069, -49.7100, -2.3303

# Details

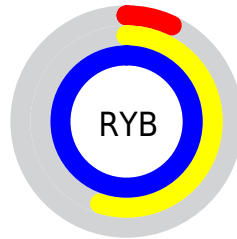
The Yxy color **77.9810, 0.2301, 0.3460** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light washed cyan. A complement of this color would be **21.7487, 0.6248, 0.3260**, and the grayscale version is **46.7635, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8776, 0.2453, 0.3288**, and **43.4353, 0.2299, 0.3477** is the 20% darker color. If you saturate the color by 10%, you get **77.8088, 0.2298, 0.3473**, and if you desaturate by 10%, it is **78.4541, 0.2316, 0.3440**.

# Distribution



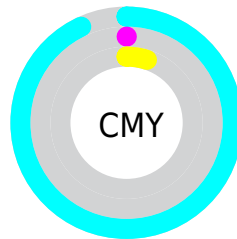
- Red (7%)
- Green (100%)
- Blue (95%)



- Red (7%)
- Yellow (55%)
- Blue (100%)



- Cyan (93%)
- Magenta (0%)
- Yellow (5%)
- Black (0%)




- Cyan (93%)
- Magenta (0%)
- Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.9810, 0.2301, 0.3460 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 77.9810, 0.2301, 0.3460 by changing the saturation by 10% instead.





 77.9810, 0.2301,  
0.3460


 77.9810, 0.2301,  
0.3460


488.1023, 0.2670,  
0.3391

 58.0584, 0.2220,  
0.3473


 130.5233, 0.2426,  
0.3438

 41.8556, 0.2123,  
0.3488


 163.9118, 0.2475,  
0.3429

 28.9882, 0.2003,  
0.3506

 202.5577, 0.2518,  
0.3421

 19.0719, 0.1851,  
0.3525

 246.8455, 0.2556,  
0.3414

 11.7223, 0.1654,  
0.3545

297.1594, 0.2589,  
0.3407

 6.5548, 0.1393,  
0.3562

353.8839, 0.2619,

 3.1853, 0.1038,

0.3402

417.4034, 0.2646,  
0.3396

0.3563

1.2292, 0.0000,  
0.3705

0.0854, 0.0000,  
0.1229

77.9810, 0.2301,  
0.3460

77.9810, 0.2301,  
0.3460


77.8088, 0.2298,  
0.3473


78.4541, 0.2316,  
0.3440


79.2668, 0.2350,  
0.3421


80.4779, 0.2402,  
0.3401


82.1334, 0.2475,  
0.3381

 84.2732, 0.2566,  
0.3362

 86.9325, 0.2674,  
0.3343

 90.1433, 0.2797,  
0.3326

 93.9351, 0.2932,  
0.3310

 98.3352, 0.3076,  
0.3295

# Harmonies

## Analogous

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



77.9810, 0.2768, 0.4065



77.9810, 0.2301, 0.3460



77.9810, 0.2061, 0.2870

# Triad

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



77.9810, 0.2301, 0.3460



77.9810, 0.2802, 0.2406



77.9810, 0.4284, 0.3981

# Complementary

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



77.9810, 0.2301, 0.3460



21.7487, 0.6248, 0.3260

# 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.



77.9810, 0.4325, 0.3522



77.9810, 0.2301, 0.3460



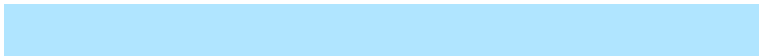
77.9810, 0.3418, 0.2663

# Square

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



77.9810, 0.2301, 0.3460



77.9810, 0.2327, 0.2335



77.9810, 0.3998, 0.3057



77.9810, 0.3918, 0.4327



# Rectangle

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



77.9810, 0.2301, 0.3460



77.9810, 0.2041, 0.2584



77.9810, 0.3998, 0.3057



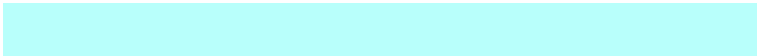
77.9810, 0.4338, 0.3834

# Sweetspot

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



77.9839, 0.2301, 0.3460



88.6139, 0.2739, 0.3334



71.8728, 0.3019, 0.5949



18.6795, 0.2687, 0.3341



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.



77.9839, 0.2301, 0.3460



77.8128, 0.2298, 0.3473



29.7096, 0.1865, 0.1881



20.4620, 0.2988, 0.3304



40.6668, 0.2297, 0.3469



3.9650, 0.2291, 0.3447



# Inverse Universe

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



21.7487, 0.6248, 0.3260



21.2944, 0.6358, 0.3276



34.7253, 0.5494, 0.3970



18.0044, 0.3285, 0.3276



11.1335, 0.6342, 0.3267

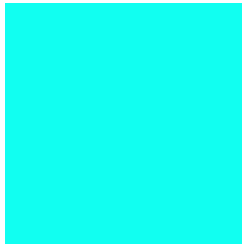


1.0898, 0.6205, 0.3192



# Previews

## White Background



This preview shows how the Yxy color 77.9810, 0.2301, 0.3460 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

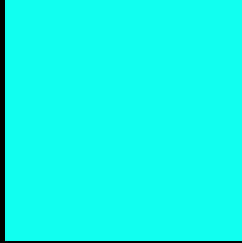
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.9810, 0.2301, 0.3460 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

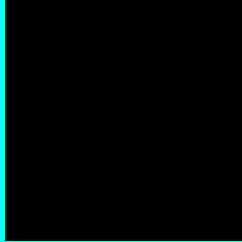
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 77.9810, 0.2301, 0.3460**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.9810, 0.2301, 0.3460.

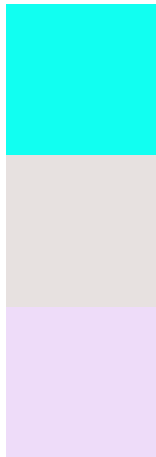


This preview shows how white text looks on a background with the Yxy color 77.9810, 0.2301, 0.3460.

# 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

77.9900, 0.2301, 0.3460

### Protanopia

76.2212, 0.3176, 0.3301

### Deuteranopia

76.2031, 0.3064, 0.2996



## Tritanopia

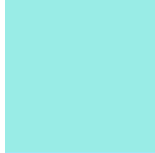
77.3997, 0.2547, 0.3141

# Trichromacy



## Original Color

77.9900, 0.2301, 0.3460



## Protanomaly

72.4764, 0.2662, 0.3360



## Deuteranomaly

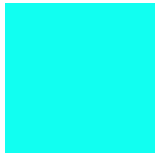
72.2007, 0.2603, 0.3139



## Tritanomaly

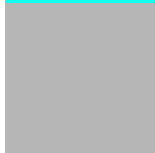
76.3072, 0.2391, 0.3252

# Monochromacy



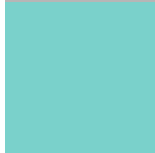
## Original Color

77.9900, 0.2301, 0.3460



## Achromatopsia

46.7784, 0.3127, 0.3290



## Achromatomaly

54.0503, 0.2594, 0.3370

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.9810, 0.2301, 0.3460 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(17, 255, 241)` looks like.

```
.text, #text, p{  
    color:rgb(17, 255, 241)  
}
```

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(17, 255, 241) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(17, 255, 241) }
```

## Border

The CSS property to change the border of an element to Yxy 77.9810, 0.2301, 0.3460 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(17, 255, 241) }
```

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

```
.border{ border-color:rgb(17, 255, 241) }
```

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

Here you see how a box with a 4 pixel `rgb(17, 255, 241)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(17, 255, 241); -webkit-box-  
shadow:4px 4px 4px 4px rgb(17, 255, 241);  
box-shadow:4px 4px 4px 4px rgb(17, 255,  
241) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.9810, 0.2301, 0.3460 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(17, 255, 241) }
```

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

```
.background{ background-color: rgb(17, 255,  
241) }
```

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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