

# Converting Colors

$Y_{xy}(73.6509, 0.1511, 0.2254)$

Have a look what the booklet for  
Yxy(73.6509, 0.1511, 0.2254)  
contains.

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# Color

**Yxy(78.1036, 0.2243, 0.3275)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FEFF
RGB	0, 254, 255
RGB Percent	0%, 100%, 100%
CMY	1.0000, 0.0039, 0.0000
CMYK	1.00, 0.00, 0.00, 0.00
HSL	180°, 100%, 50%
HSV	180°, 100%, 100%
XYZ	53.4920, 78.1036, 106.8887
YIQ	178.1680, -151.7050, -53.5370

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 127, 255
Decimal	65279
CIELab	90.83, -47.65, -14.59
CIELCh	91, 49.831, 197.021
Yxy	78.1036, 0.2243, 0.3275
Android (android.graphics.Color)	4278255359 (0xFF00FEFF)
YUV	178.1680, 37.8782, -156.2533
Hunter-Lab	88.3762, -46.6166, -9.8463

# Details

The Yxy color **78.1036, 0.2243, 0.3275** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light saturated cyan. A complement of this color would be **21.2816, 0.6399, 0.3301**, and the grayscale version is **44.4715, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8049, 0.2450, 0.3288**, and **43.5571, 0.2238, 0.3257** is the 20% darker color. If you saturate the color by 10%, you get **78.1065, 0.2243, 0.3275**, and if you desaturate by 10%, it is **78.3828, 0.2255, 0.3277**.

# Distribution



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



- Red (0%)
- Yellow (50%)
- Blue (100%)



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




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


# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.1036, 0.2243, 0.3275 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 78.1036, 0.2243, 0.3275 by changing the saturation by 10% instead.





 78.1036, 0.2243,  
0.3275


 78.1036, 0.2243,  
0.3275


488.5186, 0.2634,  
0.3295


 58.1591, 0.2159,  
0.3267


 130.6962, 0.2375,  
0.3285


 41.9366, 0.2057,  
0.3256


 164.1130, 0.2427,  
0.3288

 29.0516, 0.1933,  
0.3240


 202.7894, 0.2472,  
0.3290

 19.1199, 0.1777,  
0.3216

 247.1097, 0.2513,  
0.3292

 11.7569, 0.1578,  
0.3177

297.4584, 0.2548,  
0.3293

 6.5784, 0.1318,  
0.3110

354.2199, 0.2580,

 3.1999, 0.0972,

0.3294

0.2985

417.7785, 0.2608,  
0.3295

■ 1.2369, 0.0000,  
0.2875

■ 0.0916, 0.0000,  
0.0751

■ 78.1036, 0.2243,  
0.3275

■ 78.1036, 0.2243,  
0.3275


■ 78.1065, 0.2243,  
0.3275

■ 78.3828, 0.2255,  
0.3277

■ 78.9367, 0.2281,  
0.3278

■ 79.8532, 0.2325,  
0.3279


■ 81.1843, 0.2388,  
0.3281

 82.9733, 0.2472,  
0.3282

 85.2585, 0.2574,  
0.3284

 88.0738, 0.2693,  
0.3286

 91.4504, 0.2827,  
0.3287

 95.4169, 0.2973,  
0.3289

# Harmonies

## Analogous

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



78.1036, 0.2635, 0.3872



78.1036, 0.2243, 0.3275



78.1036, 0.2082, 0.2757

# Triad

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



78.1036, 0.2243, 0.3275



78.1036, 0.2984, 0.2498



78.1036, 0.4159, 0.4071

# Complementary

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



78.1036, 0.2243, 0.3275



21.2816, 0.6399, 0.3301

# 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.



78.1036, 0.4297, 0.3652



78.1036, 0.2243, 0.3275



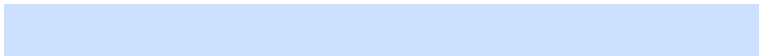
78.1036, 0.3583, 0.2790

# Square

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



78.1036, 0.2243, 0.3275



78.1036, 0.2476, 0.2372



78.1036, 0.4084, 0.3198



78.1036, 0.3741, 0.4336



# Rectangle

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



78.1036, 0.2243, 0.3275



78.1036, 0.2110, 0.2527



78.1036, 0.4084, 0.3198



78.1036, 0.4241, 0.3941

# Sweetspot

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



78.1065, 0.2243, 0.3275



88.0738, 0.2693, 0.3286



71.5200, 0.3000, 0.6000



18.5831, 0.2641, 0.3285



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.



78.1065, 0.2243, 0.3275



22.5282, 0.1763, 0.1545



20.4686, 0.2980, 0.3289



40.8180, 0.2243, 0.3276



3.9781, 0.2244, 0.3277

# Inverse Universe

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



28.4160, 0.3219, 0.1547



36.5682, 0.5436, 0.4066



18.2991, 0.3139, 0.3057



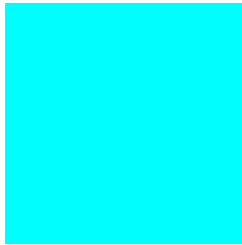
14.8486, 0.3219, 0.1547



1.4461, 0.3218, 0.1546

# Previews

## White Background



This preview shows how the Yxy color 78.1036, 0.2243, 0.3275 looks on a white background.

## Color Contrast Check

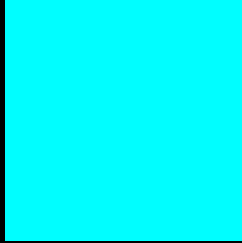
Large Text (above 18pt) WCAG AA × Fail

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 78.1036, 0.2243, 0.3275 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

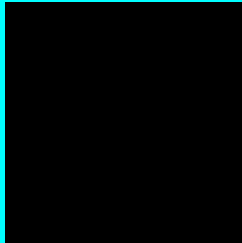
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

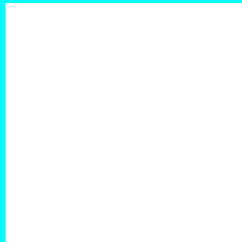
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 78.1036, 0.2243, 0.3275**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.1036, 0.2243, 0.3275.



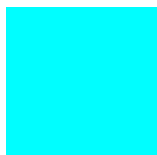
This preview shows how white text looks on a background with the Yxy color 78.1036, 0.2243, 0.3275.



# Color Blindness Simulation

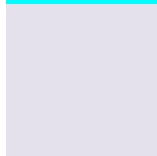
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



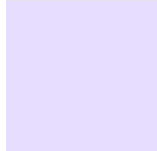
### Original Color

78.1036, 0.2243, 0.3275



### Protanopia

76.4588, 0.3071, 0.3164



### Deuteranopia

76.4515, 0.2979, 0.2953



## Tritanopia

77.3997, 0.2547, 0.3141

# Trichromacy



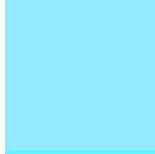
## Original Color

78.1036, 0.2243, 0.3275



## Protanomaly

72.5423, 0.2554, 0.3195



## Deuteranomaly

72.2687, 0.2509, 0.3047



## Tritanomaly

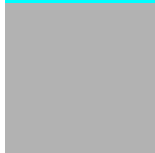
75.6729, 0.2351, 0.3181

# Monochromacy



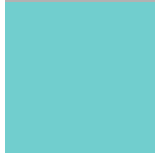
## Original Color

78.1036, 0.2243, 0.3275



## Achromatopsia

44.5201, 0.3127, 0.3290



## Achromatomaly

52.1096, 0.2525, 0.3288

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  78.1036, 0.2243, 0.3275 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, 254, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 254, 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, 254, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 254, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 78.1036, 0.2243, 0.3275 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, 254, 255) }
```

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

```
.border{ border-color:rgb(0, 254, 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, 254, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 254, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 254, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 254,  
255) }
```

# Background

The CSS property to change the background color of an element to Yxy 78.1036, 0.2243, 0.3275 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 254, 255) }
```

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

```
.background{ background-color: rgb(0, 254,  
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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