

# Converting Colors

$Y_{xy}(100.0000, 0.2384, 0.4130)$

Have a look what the booklet for  
Yxy(100.0000, 0.2384, 0.4130)  
contains.

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# Color

**Yxy(76.7405, 0.2367, 0.3722)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFDD
RGB	0, 255, 221
RGB Percent	0%, 100%, 87%
CMY	1.0000, 0.0000, 0.1334
CMYK	1.00, 0.00, 0.13, 0.00
HSL	172°, 100%, 50%
HSV	172°, 100%, 100%
XYZ	48.8030, 76.7405, 80.6373
YIQ	174.8790, -141.0660, -64.6340

# Conversions

## Conversions Part 2

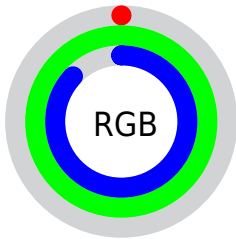
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 137, 255
Decimal	65501
CIELab	90.20, -57.39, 2.16
CIElCh	90, 57.428, 177.846
Yxy	76.7405, 0.2367, 0.3722
Android (android.graphics.Color)	4278255581 (0xFF00FFDD)
YUV	174.8790, 22.7377, -153.3689
Hunter-Lab	87.6017, -53.8603, 6.7447

# Details

The Yxy color **76.7405, 0.2367, 0.3722** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light saturated cyan. A complement of this color would be **21.3756, 0.6259, 0.3221**, and the grayscale version is **42.7378, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.5916, 0.2440, 0.3288**, and **42.6857, 0.2388, 0.3796** is the 20% darker color. If you saturate the color by 10%, you get **76.7398, 0.2367, 0.3722**, and if you desaturate by 10%, it is **77.1361, 0.2367, 0.3675**.

# Distribution



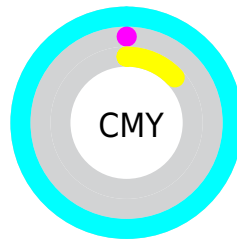
- Red (0%)
- Green (100%)
- Blue (87%)



- Red (0%)
- Yellow (54%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (13%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 76.7405, 0.2367, 0.3722 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 76.7405, 0.2367, 0.3722 by changing the saturation by 10% instead.



 76.7405, 0.2367,  
0.3722


 76.7405, 0.2367,  
0.3722


483.8788, 0.2713,  
0.3524


 57.0399, 0.2290,  
0.3767


 128.7731, 0.2485,  
0.3654


 41.0373, 0.2196,  
0.3822


 161.8739, 0.2532,  
0.3627


 28.3482, 0.2079,  
0.3891


 200.2103, 0.2572,  
0.3604

 18.5883, 0.1929,  
0.3980

 244.1665, 0.2607,  
0.3584

 11.3732, 0.1731,  
0.4098

 294.1271, 0.2638,  
0.3566

 6.3184, 0.1462,  
0.4263

350.4764, 0.2666,

 3.0397, 0.1075,

0.3550

0.4508

413.5989, 0.2690,  
0.3536

■ 1.1525, 0.0000,  
0.5154

■ 0.0224, 0.0000,  
1.0000

■ 76.7405, 0.2367,  
0.3722

■ 76.7405, 0.2367,  
0.3722


■ 76.7398, 0.2367,  
0.3722

■ 77.1361, 0.2367,  
0.3675


■ 77.8136, 0.2382,  
0.3628


■ 78.8574, 0.2417,  
0.3580


■ 80.3194, 0.2471,  
0.3533

 82.2432, 0.2545,  
0.3487

 84.6668, 0.2636,  
0.3442

 87.6244, 0.2743,  
0.3400

 91.1470, 0.2862,  
0.3360

 95.2633, 0.2991,  
0.3324

# Harmonies

## Analogous

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



76.7405, 0.2940, 0.4332



76.7405, 0.2367, 0.3722



76.7405, 0.2019, 0.3022

# Triad

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



76.7405, 0.2367, 0.3722



76.7405, 0.2565, 0.2274



76.7405, 0.4463, 0.3868

# Complementary

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



76.7405, 0.2367, 0.3722



21.3756, 0.6259, 0.3221

# 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.



76.7405, 0.4373, 0.3356



76.7405, 0.2367, 0.3722



76.7405, 0.3203, 0.2490

# Square

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



76.7405, 0.2367, 0.3722



76.7405, 0.2128, 0.2271



76.7405, 0.3890, 0.2872



76.7405, 0.4162, 0.4317



# Rectangle

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



76.7405, 0.2367, 0.3722



76.7405, 0.1937, 0.2653



76.7405, 0.3890, 0.2872



76.7405, 0.4480, 0.3699

# Sweetspot

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



76.7398, 0.2367, 0.3722



87.6244, 0.2743, 0.3400



71.9368, 0.3036, 0.5972



18.4739, 0.2696, 0.3418



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

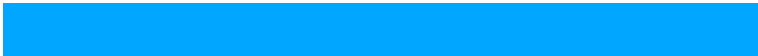


# Same Dimension

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



76.7398, 0.2367, 0.3722



34.4016, 0.1910, 0.2077



20.4373, 0.2998, 0.3322



40.1144, 0.2365, 0.3714



3.9169, 0.2350, 0.3660

# Inverse Universe

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



21.3756, 0.6259, 0.3221



28.4464, 0.5868, 0.3723



18.0265, 0.3273, 0.3259



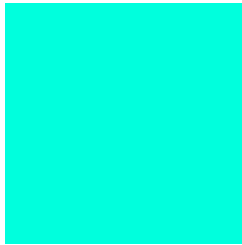
11.1812, 0.6231, 0.3206



1.1003, 0.5977, 0.3066

# Previews

## White Background



This preview shows how the Yxy color 76.7405, 0.2367, 0.3722 looks on a white background.

## Color Contrast Check

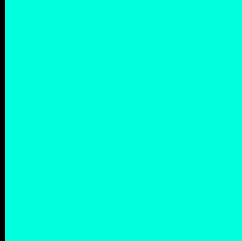
Large Text (above 18pt) WCAG AA × Fail

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 76.7405, 0.2367, 0.3722 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

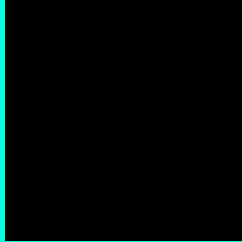
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 76.7405, 0.2367, 0.3722**

## **Background**



This preview shows how black text looks on a background with the Yxy color 76.7405, 0.2367, 0.3722.



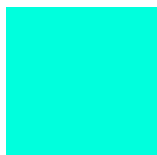
This preview shows how white text looks on a background with the Yxy color 76.7405, 0.2367, 0.3722.



# Color Blindness Simulation

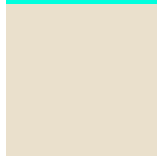
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



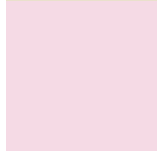
### Original Color

76.7405, 0.2367, 0.3722



### Protanopia

75.1634, 0.3332, 0.3504



### Deuteranopia

75.2124, 0.3248, 0.3178



## Tritanopia

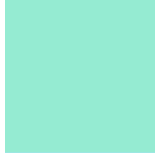
76.1503, 0.2514, 0.3128

# Trichromacy



## Original Color

76.7405, 0.2367, 0.3722



## Protanomaly

70.4594, 0.2743, 0.3596



## Deuteranomaly

69.7107, 0.2691, 0.3349



## Tritanomaly

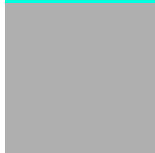
74.6579, 0.2384, 0.3324

# Monochromacy



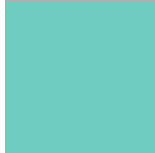
## Original Color

76.7405, 0.2367, 0.3722



## Achromatopsia

42.8690, 0.3127, 0.3290



## Achromatomaly

50.3710, 0.2586, 0.3459

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  76.7405, 0.2367, 0.3722 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, 255, 221)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 221)  
}
```

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, 255, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 221) }
```

## Border

The CSS property to change the border of an element to Yxy 76.7405, 0.2367, 0.3722 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, 255, 221) }
```

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

```
.border{ border-color:rgb(0, 255, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 255, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 221);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
221) }
```

# Background

The CSS property to change the background color of an element to Yxy 76.7405, 0.2367, 0.3722 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 255, 221) }
```

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

```
.background{ background-color: rgb(0, 255,  
221) }
```

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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