

# Converting Colors

$Y_{xy}(100.0000, 0.2272, 0.4139)$

Have a look what the booklet for  
Yxy(100.0000, 0.2272, 0.4139)  
contains.

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# Color

**Yxy(76.9018, 0.2356, 0.3682)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FF00
RGB	0, 255, 0
RGB Percent	0%, 100%, 0%
CMY	1.0000, 0.0000, 1.0000
CMYK	1.00, 0.00, 0.00, 0.00
HSL	120°, 100%, 50%
HSV	120°, 100%, 100%
XYZ	49.2071, 76.9018, 82.7498
YIQ	175.2210, -142.0290, -63.7010

# Conversions

## Conversions Part 2

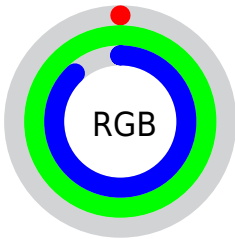
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">0, 136, 255</a>
Decimal	<a href="#">65504</a>
CIELab	<a href="#">90.28, -56.61, 0.72</a>
CIELCh	<a href="#">90, 56.610, 179.271</a>
Yxy	<a href="#">76.9018, 0.2356, 0.3682</a>
Android (android.graphics.Color)	<a href="#">4278255584</a> ( <a href="#">0xFF00FFE0</a> )
YUV	<a href="#">175.2210, 24.0480, -153.6688</a>
Hunter-Lab	<a href="#">87.6937, -53.3031, 5.4381</a>

# Details

The Yxy color **76.9018, 0.2356, 0.3682** 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 **21.3591, 0.6278, 0.3232**, and the grayscale version is **42.9164, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.5916, 0.2440, 0.3288**, and **42.7971, 0.2374, 0.3745** is the 20% darker color. If you saturate the color by 10%, you get **76.9003, 0.2356, 0.3682**, and if you desaturate by 10%, it is **77.2833, 0.2357, 0.3640**.

# Distribution



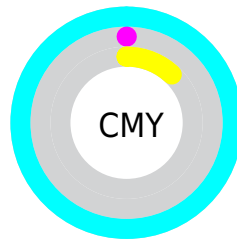
- Red (0%)
- Green (100%)
- Blue (88%)



- Red (0%)
- Yellow (53%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (12%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 76.9018, 0.2356, 0.3682 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 76.9018, 0.2356, 0.3682 by changing the saturation by 10% instead.





 76.9018, 0.2356,  
0.3682


 76.9018, 0.2356,  
0.3682


484.4291, 0.2706,  
0.3504


 57.1723, 0.2278,  
0.3722


 129.0009, 0.2476,  
0.3621


 41.1436, 0.2184,  
0.3770


 162.1392, 0.2523,  
0.3597

 28.4313, 0.2066,  
0.3831


 200.5159, 0.2563,  
0.3576

 18.6510, 0.1915,  
0.3909

 244.5154, 0.2599,  
0.3558

 11.4184, 0.1718,  
0.4011

294.5221, 0.2630,  
0.3542

 6.3490, 0.1450,  
0.4151


350.9203, 0.2658,


 3.0584, 0.1070,

0.3528


0.4353

414.0946, 0.2683,  
0.3515

 1.1623, 0.0000,  
0.4907

 0.0306, 0.0000,  
1.0000

 76.9018, 0.2356,  
0.3682


 76.9018, 0.2356,  
0.3682


 76.9003, 0.2356,  
0.3682

 77.2833, 0.2357,  
0.3640


 77.9470, 0.2373,  
0.3597


 78.9763, 0.2409,  
0.3554


 80.4232, 0.2464,  
0.3511

 82.3313, 0.2538,  
0.3469

 84.7386, 0.2630,  
0.3429

 87.6791, 0.2738,  
0.3390

 91.1841, 0.2859,  
0.3354

 95.2821, 0.2990,  
0.3321

# Harmonies

## Analogous

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



76.9018, 0.2914, 0.4294



76.9018, 0.2356, 0.3682



76.9018, 0.2024, 0.2998

# Triad

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



76.9018, 0.2356, 0.3682



76.9018, 0.2599, 0.2293



76.9018, 0.4438, 0.3886

# Complementary

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



76.9018, 0.2356, 0.3682



21.3591, 0.6278, 0.3232

# 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.



76.9018, 0.4368, 0.3380



76.9018, 0.2356, 0.3682



76.9018, 0.3235, 0.2515

# Square

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



76.9018, 0.2356, 0.3682



76.9018, 0.2156, 0.2279



76.9018, 0.3908, 0.2899



76.9018, 0.4126, 0.4321



# Rectangle

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



76.9018, 0.2356, 0.3682



76.9018, 0.1951, 0.2642



76.9018, 0.3908, 0.2899



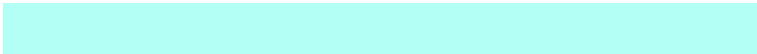
76.9018, 0.4461, 0.3719

# Sweetspot

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



76.9003, 0.2356, 0.3682



87.6791, 0.2738, 0.3390



71.8601, 0.3029, 0.5977



18.4872, 0.2691, 0.3406



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.



76.9003, 0.2356, 0.3682



32.8848, 0.1894, 0.2016



20.4412, 0.2996, 0.3319



40.1971, 0.2354, 0.3675



3.9241, 0.2341, 0.3626

# Inverse Universe

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



21.3591, 0.6278, 0.3232



29.1768, 0.5823, 0.3759



18.0230, 0.3275, 0.3261



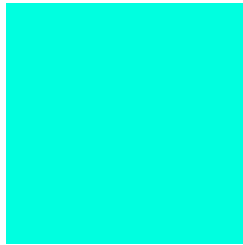
11.1718, 0.6253, 0.3218



1.0986, 0.6011, 0.3085

# Previews

## White Background



This preview shows how the Yxy color 76.9018, 0.2356, 0.3682 looks on a white background.

## Color Contrast Check

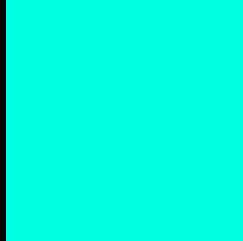
Large Text (above 18pt) WCAG AA × Fail

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 76.9018, 0.2356, 0.3682 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

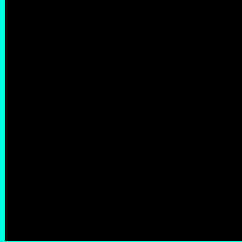
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

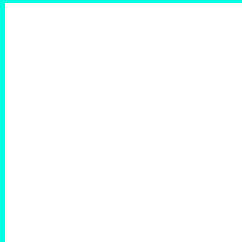
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 76.9018, 0.2356, 0.3682**

## **Background**



This preview shows how black text looks on a background with the Yxy color 76.9018, 0.2356, 0.3682.



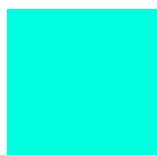
This preview shows how white text looks on a background with the Yxy color 76.9018, 0.2356, 0.3682.



# Color Blindness Simulation

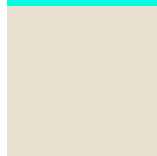
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



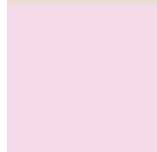
### Original Color

76.9018, 0.2356, 0.3682



### Protanopia

75.1399, 0.3305, 0.3472



### Deuteranopia

75.2021, 0.3220, 0.3147



## Tritanopia

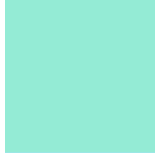
76.2416, 0.2518, 0.3129

# Trichromacy



## Original Color

76.9018, 0.2356, 0.3682



## Protanomaly

70.5167, 0.2722, 0.3558



## Deuteranomaly

69.7775, 0.2670, 0.3313



## Tritanomaly

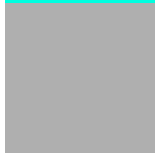
74.7703, 0.2383, 0.3312

# Monochromacy



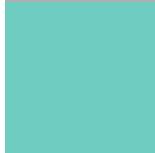
## Original Color

76.9018, 0.2356, 0.3682



## Achromatopsia

42.8690, 0.3127, 0.3290



## Achromatomaly

50.4155, 0.2581, 0.3444

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 76.9018, 0.2356, 0.3682 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, 224)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 224)  
}
```

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, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 224) }
```

## Border

The CSS property to change the border of an element to Yxy 76.9018, 0.2356, 0.3682 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, 224) }
```

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

```
.border{ border-color:rgb(0, 255, 224) }
```

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, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 224);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
224) }
```

# Background

The CSS property to change the background color of an element to Yxy 76.9018, 0.2356, 0.3682 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, 224) }
```

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

```
.background{ background-color: rgb(0, 255,  
224) }
```

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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