

# Converting Colors

$Y_{xy}(82.7326, 0.2378, 0.3749)$

Have a look what the booklet for  
Yxy(82.7326, 0.2378, 0.3749)  
contains.

<b>Yxy(77.0691, 0.2352, 0.3655)</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> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(77.0691, 0.2352, 0.3655)**

# Conversions

## Conversions Part 1

Format	Color
Hex	09FFE2
RGB	9, 255, 226
RGB Percent	4%, 100%, 89%
CMY	0.9659, 0.0000, 0.1138
CMYK	0.97, 0.00, 0.11, 0.00
HSL	173°, 100%, 52%
HSV	173°, 97%, 100%
XYZ	49.5941, 77.0691, 84.1961
YIQ	178.1400, -137.3070, -61.1710

# Conversions

## Conversions Part 2

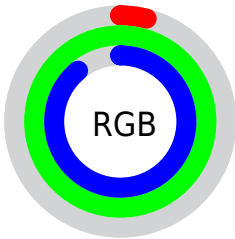
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	9, 140, 255
Decimal	655330
CIE <sub>Lab</sub>	90.35, -55.89, -0.20
CIE <sub>LCh</sub>	90, 55.888, 180.210
Yxy	77.0691, 0.2352, 0.3655
Android (android.graphics.Color)	4278845410 (0xFF09FFE2)
YUV	178.1400, 23.5950, -148.3358
Hunter-Lab	87.7890, -52.7918, 4.5888

# Details

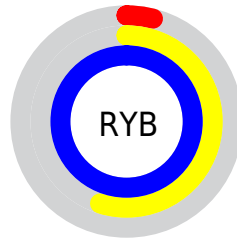
The Yxy color **77.0691, 0.2352, 0.3655** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light saturated cyan. A complement of this color would be **21.5869, 0.6217, 0.3220**, and the grayscale version is **44.4733, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.7331, 0.2446, 0.3288**, and **42.8728, 0.2364, 0.3710** is the 20% darker color. If you saturate the color by 10%, you get **76.9537, 0.2353, 0.3669**, and if you desaturate by 10%, it is **77.5196, 0.2357, 0.3614**.

# Distribution



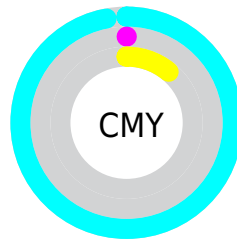
- Red (4%)
- Green (100%)
- Blue (89%)



- Red (4%)
- Yellow (55%)
- Blue (100%)



- Cyan (97%)
- Magenta (0%)
- Yellow (11%)
- Black (0%)




- Cyan (97%)
- Magenta (0%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.0691, 0.2352, 0.3655 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 77.0691, 0.2352, 0.3655 by changing the saturation by 10% instead.





 77.0691, 0.2352,  
0.3655

 77.0691, 0.2352,  
0.3655


484.9996, 0.2703,  
0.3490

 57.3096, 0.2274,  
0.3691


 129.2370, 0.2472,  
0.3599


 41.2539, 0.2180,  
0.3736


 162.4142, 0.2519,  
0.3577

 28.5175, 0.2062,  
0.3791


 200.8328, 0.2560,  
0.3557

 18.7161, 0.1912,  
0.3861

 244.8771, 0.2596,  
0.3541

 11.4653, 0.1715,  
0.3953

294.9315, 0.2627,  
0.3526

 6.3807, 0.1448,  
0.4078


351.3805, 0.2655,


 3.0779, 0.1074,


0.3513


0.4252


414.6084, 0.2680,  
0.3501


 1.1726, 0.0000,  
0.4754


 0.0391, 0.0000,  
0.4075


 77.0691, 0.2352,  
0.3655


 77.0691, 0.2352,  
0.3655


 76.9537, 0.2353,  
0.3669


 77.5196, 0.2357,  
0.3614


 78.2966, 0.2380,  
0.3573

 79.4581, 0.2423,  
0.3531


 81.0526, 0.2485,  
0.3490

 83.1215, 0.2566,  
0.3450

 85.7014, 0.2664,  
0.3411

 88.8254, 0.2777,  
0.3375

 92.5236, 0.2902,  
0.3341

 96.8239, 0.3036,  
0.3309

# Harmonies

## Analogous

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



77.0691, 0.2898, 0.4265



77.0691, 0.2352, 0.3655



77.0691, 0.2031, 0.2984

# Triad

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



77.0691, 0.2352, 0.3655



77.0691, 0.2623, 0.2308



77.0691, 0.4417, 0.3896

# Complementary

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



77.0691, 0.2352, 0.3655



21.5869, 0.6217, 0.3220

# 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.



77.0691, 0.4360, 0.3396



77.0691, 0.2352, 0.3655



77.0691, 0.3256, 0.2533

# Square

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



77.0691, 0.2352, 0.3655



77.0691, 0.2178, 0.2288



77.0691, 0.3916, 0.2918



77.0691, 0.4100, 0.4320



# Rectangle

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



77.0691, 0.2352, 0.3655



77.0691, 0.1964, 0.2637



77.0691, 0.3916, 0.2918



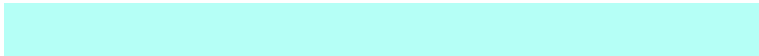
77.0691, 0.4444, 0.3732

# Sweetspot

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



77.0659, 0.2352, 0.3655



88.0212, 0.2748, 0.3383



72.0215, 0.3037, 0.5953



18.5527, 0.2700, 0.3399



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.



77.0659, 0.2352, 0.3655



76.9537, 0.2353, 0.3669



34.0739, 0.1911, 0.2063



20.4424, 0.2996, 0.3318



40.2246, 0.2351, 0.3662



3.9265, 0.2338, 0.3615



# Inverse Universe

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



21.5869, 0.6217, 0.3220



21.3540, 0.6284, 0.3236



30.2040, 0.5746, 0.3793



18.0219, 0.3276, 0.3262



11.1688, 0.6259, 0.3222

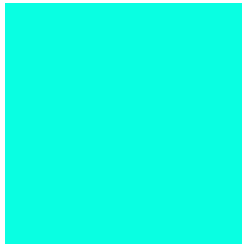


1.0981, 0.6022, 0.3091



# Previews

## White Background



This preview shows how the Yxy color 77.0691, 0.2352, 0.3655 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

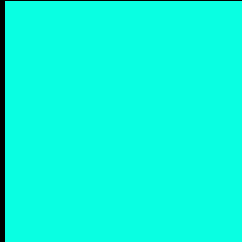
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.0691, 0.2352, 0.3655 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

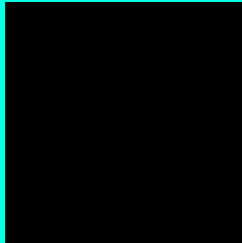
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 77.0691, 0.2352, 0.3655**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.0691, 0.2352, 0.3655.

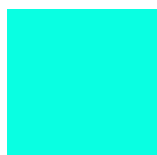


This preview shows how white text looks on a background with the Yxy color 77.0691, 0.2352, 0.3655.

# Color Blindness Simulation

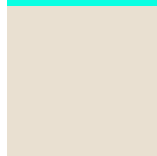
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

77.0691, 0.2352, 0.3655



### Protanopia

75.2384, 0.3291, 0.3450



### Deuteranopia

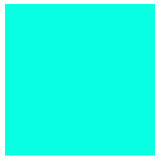
75.1380, 0.3199, 0.3127



## Tritanopia

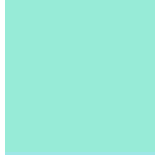
76.3336, 0.2522, 0.3129

# Trichromacy



## Original Color

77.0691, 0.2352, 0.3655



## Protanomaly

70.9023, 0.2727, 0.3532



## Deuteranomaly

70.1905, 0.2675, 0.3289



## Tritanomaly

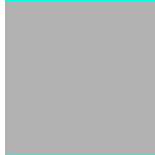
74.9846, 0.2395, 0.3312

# Monochromacy



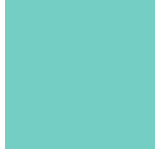
## Original Color

77.0691, 0.2352, 0.3655



## Achromatopsia

44.5201, 0.3127, 0.3290



## Achromatomaly

51.7957, 0.2600, 0.3442

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  77.0691, 0.2352, 0.3655 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(9, 255, 226)` looks like.

```
.text, #text, p{  
    color:rgb(9, 255, 226)  
}
```

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(9, 255, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(9, 255, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 77.0691, 0.2352, 0.3655 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(9, 255, 226) }
```

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

```
.border{ border-color:rgb(9, 255, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(9, 255, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(9, 255, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(9, 255, 226);  
box-shadow:4px 4px 4px 4px rgb(9, 255,  
226) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.0691, 0.2352, 0.3655 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(9, 255, 226) }
```

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

```
.background{ background-color: rgb(9, 255,  
226) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor