

# Converting Colors

$Y_{xy}(122.1726, 0.2335, 0.4222)$

Have a look what the booklet for  
Yxy(122.1726, 0.2335, 0.4222)  
contains.

<b>Yxy(77.5761, 0.2312, 0.3524)</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> .....	22
<b><i>Color Blindness Simulation</i></b> .....	25
<b><i>CSS Examples</i></b> .....	28

# Color

**Yxy(77.5761, 0.2312, 0.3524)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFEC
RGB	0, 255, 236
RGB Percent	0%, 100%, 93%
CMY	1.0000, 0.0000, 0.0744
CMYK	1.00, 0.00, 0.07, 0.00
HSL	176°, 100%, 50%
HSV	176°, 100%, 100%
XYZ	50.8956, 77.5761, 91.6648
YIQ	176.5890, -145.8810, -59.9690

# Conversions

## Conversions Part 2

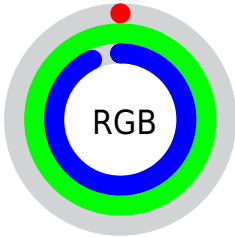
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 132, 255
Decimal	65516
CIELab	90.59, -53.40, -5.08
CIELCh	91, 53.641, 185.432
Yxy	77.5761, 0.2312, 0.3524
Android (android.graphics.Color)	4278255596 (0xFF00FFEC)
YUV	176.5890, 29.2896, -154.8686
Hunter-Lab	88.0773, -50.9889, -0.0509

# Details

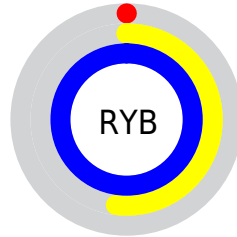
The Yxy color **77.5761, 0.2312, 0.3524** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light saturated cyan. A complement of this color would be **21.3069, 0.6342, 0.3267**, and the grayscale version is **43.6420, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.6619, 0.2443, 0.3288**, and **43.2278, 0.2322, 0.3559** is the 20% darker color. If you saturate the color by 10%, you get **77.5775, 0.2312, 0.3524**, and if you desaturate by 10%, it is **77.9015, 0.2317, 0.3499**.

# Distribution



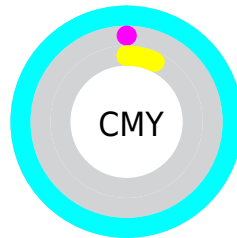
- Red (0%)
- Green (100%)
- Blue (93%)



- Red (0%)
- Yellow (52%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (7%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.5761, 0.2312, 0.3524 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 77.5761, 0.2312, 0.3524 by changing the saturation by 10% instead.





 77.5761, 0.2312,  
0.3524

 77.5761, 0.2312,  
0.3524

486.7260, 0.2677,  
0.3424

 57.7258, 0.2232,  
0.3545


 129.9524, 0.2436,  
0.3491

 41.5883, 0.2135,  
0.3569


 163.2472, 0.2485,  
0.3478

 28.7790, 0.2014,  
0.3598

 201.7923, 0.2528,  
0.3466

 18.9137, 0.1862,  
0.3633

 245.9721, 0.2565,  
0.3456

 11.6080, 0.1665,  
0.3675

296.1709, 0.2598,  
0.3447

 6.4773, 0.1400,  
0.3725


352.7733, 0.2627,


 3.1374, 0.1038,


0.3438


0.3776


416.1635, 0.2654,  
0.3431


 1.2039, 0.0000,  
0.4012


 0.0649, 0.0000,  
0.1323


 77.5761, 0.2312,  
0.3524


 77.5761, 0.2312,  
0.3524

 77.5775, 0.2312,  
0.3524


 77.9015, 0.2317,  
0.3499


 78.5043, 0.2337,  
0.3474


 79.4709, 0.2376,  
0.3448


 80.8530, 0.2435,  
0.3423

 82.6944, 0.2512,  
0.3398

 85.0330, 0.2608,  
0.3374

 87.9030, 0.2721,  
0.3350

 91.3353, 0.2847,  
0.3329

 95.3588, 0.2983,  
0.3308

# Harmonies

## Analogous

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



77.5761, 0.2808, 0.4137



77.5761, 0.2312, 0.3524



77.5761, 0.2044, 0.2903

# Triad

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



77.5761, 0.2312, 0.3524



77.5761, 0.2740, 0.2369



77.5761, 0.4336, 0.3957

# Complementary

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



77.5761, 0.2312, 0.3524



21.3069, 0.6342, 0.3267

# 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.



77.5761, 0.4346, 0.3481



77.5761, 0.2312, 0.3524



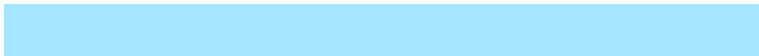
77.5761, 0.3366, 0.2617

# Square

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



77.5761, 0.2312, 0.3524



77.5761, 0.2272, 0.2313



77.5761, 0.3978, 0.3009



77.5761, 0.3983, 0.4333



# Rectangle

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



77.5761, 0.2312, 0.3524



77.5761, 0.2009, 0.2596



77.5761, 0.3978, 0.3009



77.5761, 0.4382, 0.3803

# Sweetspot

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



77.5775, 0.2312, 0.3524



87.9030, 0.2721, 0.3350



71.6822, 0.3014, 0.5989



18.5415, 0.2672, 0.3360



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

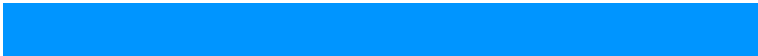


# Same Dimension

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



77.5775, 0.2312, 0.3524



28.6359, 0.1843, 0.1835



20.4568, 0.2990, 0.3308



40.5458, 0.2311, 0.3520



3.9545, 0.2303, 0.3491

# Inverse Universe

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



21.3069, 0.6342, 0.3267



31.6197, 0.5682, 0.3870



18.0090, 0.3283, 0.3273



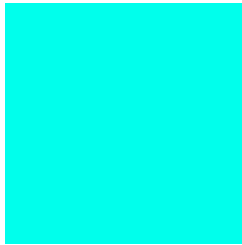
11.1411, 0.6324, 0.3257



1.0920, 0.6155, 0.3164

# Previews

## White Background



This preview shows how the Yxy color 77.5761, 0.2312, 0.3524 looks on a white background.

## Color Contrast Check

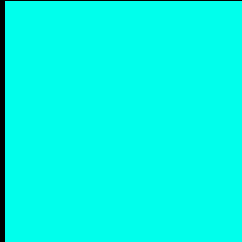
Large Text (above 18pt) WCAG AA × Fail

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 77.5761, 0.2312, 0.3524 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

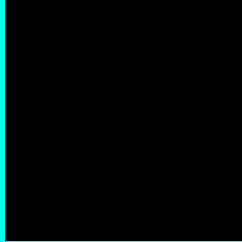
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 77.5761, 0.2312, 0.3524**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.5761, 0.2312, 0.3524.



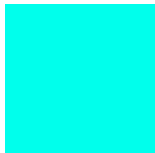
This preview shows how white text looks on a background with the Yxy color 77.5761, 0.2312, 0.3524.



# Color Blindness Simulation

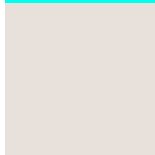
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



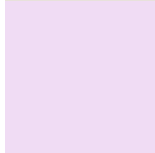
### Original Color

77.5761, 0.2312, 0.3524



### Protanopia

76.1207, 0.3216, 0.3354



### Deuteranopia

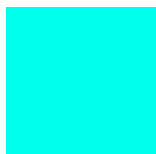
76.2433, 0.3111, 0.3046



## Tritanopia

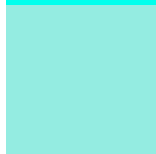
76.6146, 0.2536, 0.3129

# Trichromacy



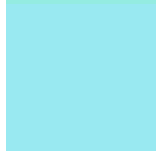
## Original Color

77.5761, 0.2312, 0.3524



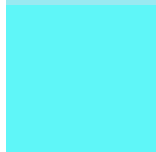
## Protanomaly

71.7230, 0.2661, 0.3421



## Deuteranomaly

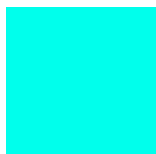
71.4010, 0.2602, 0.3195



## Tritanomaly

75.1217, 0.2373, 0.3264

# Monochromacy



## Original Color

77.5761, 0.2312, 0.3524



## Achromatopsia

43.9657, 0.3127, 0.3290



## Achromatomaly

51.2506, 0.2566, 0.3386

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  77.5761, 0.2312, 0.3524 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, 236)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 236)  
}
```

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, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 236) }
```

## Border

The CSS property to change the border of an element to Yxy 77.5761, 0.2312, 0.3524 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, 236) }
```

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

```
.border{ border-color:rgb(0, 255, 236) }
```

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, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 236);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
236) }
```

# Background

The CSS property to change the background color of an element to Yxy 77.5761, 0.2312, 0.3524 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, 236) }
```

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

```
.background{ background-color: rgb(0, 255,  
236) }
```

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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