

Converting Colors

$Y_{xy}(77.8302, 0.2306, 0.3486)$

Have a look what the booklet for
Yxy(77.8302, 0.2306, 0.3486)
contains.

Yxy(77.8302, 0.2306, 0.3486)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(77.8302, 0.2306, 0.3486)

Conversions

Conversions Part 1

Format	Color
Hex	0CFFEF
RGB	12, 255, 239
RGB Percent	5%, 100%, 94%
CMY	0.9541, 0.0000, 0.0628
CMYK	0.95, 0.00, 0.06, 0.00
HSL	176°, 100%, 52%
HSV	176°, 95%, 100%
XYZ	51.4849, 77.8302, 93.9499
YIQ	180.5190, -139.6920, -56.4920

Conversions

Conversions Part 2

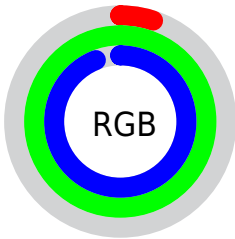
Format	Color
R_{YB}	12, 138, 255
Decimal	851951
CIE _{Lab}	90.70, -52.34, -6.43
CIE _{LCh}	91, 52.734, 187.008
Yxy	77.8302, 0.2306, 0.3486
Android (android.graphics.Color)	4279042031 (0xFF0CFFEF)
YUV	180.5190, 28.8311, -147.7912
Hunter-Lab	88.2214, -50.2171, -1.3849

Details

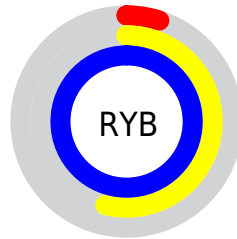
The Yxy color **77.8302, 0.2306, 0.3486** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light saturated cyan. A complement of this color would be **21.5986, 0.6277, 0.3261**, and the grayscale version is **45.7832, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8049, 0.2450, 0.3288**, and **43.3514, 0.2308, 0.3509** is the 20% darker color. If you saturate the color by 10%, you get **77.7050, 0.2304, 0.3496**, and if you desaturate by 10%, it is **78.2475, 0.2318, 0.3464**.

Distribution



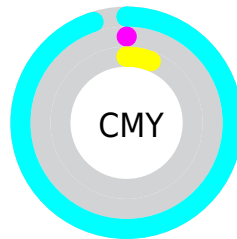
- Red (5%)
- Green (100%)
- Blue (94%)



- Red (5%)
- Yellow (54%)
- Blue (100%)



- Cyan (95%)
- Magenta (0%)
- Yellow (6%)
- Black (0%)





- Cyan (95%)
- Magenta (0%)
- Yellow (6%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 77.8302, 0.2306, 0.3486 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 77.8302, 0.2306, 0.3486 by changing the saturation by 10% instead.

 77.8302, 0.2306,
0.3486

 77.8302, 0.2306,
0.3486


487.5900, 0.2673,
0.3405

 57.9345, 0.2226,
0.3502


 130.3107, 0.2431,
0.3460

 41.7560, 0.2128,
0.3521


 163.6644, 0.2480,
0.3449

 28.9103, 0.2008,
0.3543

 202.2727, 0.2523,
0.3439

 19.0130, 0.1856,
0.3569

 246.5203, 0.2560,
0.3431

 11.6796, 0.1660,
0.3598

296.7914, 0.2593,
0.3423

 6.5259, 0.1397,
0.3628

353.4704, 0.2623,

 3.1674, 0.1039,

0.3417

0.3649

416.9418, 0.2649,
0.3410

■ 1.2198, 0.0000,
0.3828

■ 0.0778, 0.0000,
0.1270

■ 77.8302, 0.2306,
0.3486

■ 77.8302, 0.2306,
0.3486


■ 77.7050, 0.2304,
0.3496


■ 78.2475, 0.2318,
0.3464


■ 78.9983, 0.2347,
0.3442

■ 80.1377, 0.2395,
0.3419


■ 81.7133, 0.2463,
0.3397

 83.7659, 0.2550,
0.3375

 86.3315, 0.2655,
0.3354

 89.4429, 0.2774,
0.3334

 93.1298, 0.2906,
0.3316

 97.4201, 0.3048,
0.3299

Harmonies

Analogous

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



77.8302, 0.2784, 0.4094



77.8302, 0.2306, 0.3486



77.8302, 0.2055, 0.2884

Triad

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



77.8302, 0.2306, 0.3486



77.8302, 0.2777, 0.2391



77.8302, 0.4304, 0.3971

Complementary

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



77.8302, 0.2306, 0.3486



21.5986, 0.6277, 0.3261

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.



77.8302, 0.4333, 0.3505



77.8302, 0.2306, 0.3486



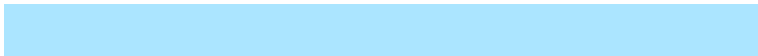
77.8302, 0.3396, 0.2645

Square

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



77.8302, 0.2306, 0.3486



77.8302, 0.2305, 0.2326



77.8302, 0.3990, 0.3038



77.8302, 0.3944, 0.4329

Rectangle

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



77.8302, 0.2306, 0.3486



77.8302, 0.2029, 0.2590



77.8302, 0.3990, 0.3038



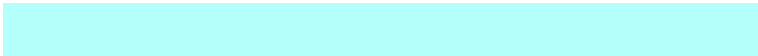
77.8302, 0.4355, 0.3821

Sweetspot

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



77.8266, 0.2306, 0.3486



88.2600, 0.2730, 0.3341



71.7918, 0.3016, 0.5964



18.6110, 0.2679, 0.3350



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.



77.8266, 0.2306, 0.3486



77.7050, 0.2304, 0.3496



28.9737, 0.1853, 0.1849



20.4596, 0.2989, 0.3305



40.6114, 0.2303, 0.3492



3.9602, 0.2296, 0.3467

Inverse Universe

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



21.5986, 0.6277, 0.3261



21.2998, 0.6351, 0.3272



34.0406, 0.5537, 0.3953



18.0065, 0.3284, 0.3275



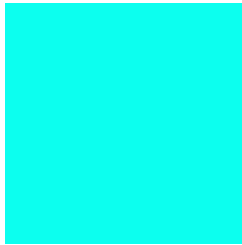
11.1368, 0.6334, 0.3263



1.0908, 0.6182, 0.3179

Previews

White Background



This preview shows how the Yxy color 77.8302, 0.2306, 0.3486 looks on a white background.

Color Contrast Check

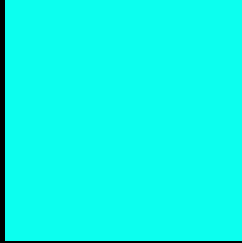
Large Text (above 18pt) WCAG AA × Fail

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 77.8302, 0.2306, 0.3486 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

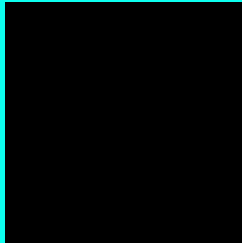
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

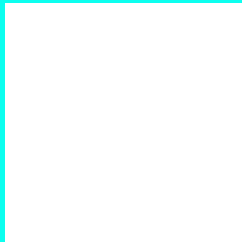
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 77.8302, 0.2306, 0.3486

Background



This preview shows how black text looks on a background with the Yxy color 77.8302, 0.2306, 0.3486.

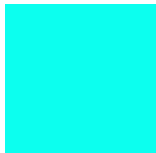


This preview shows how white text looks on a background with the Yxy color 77.8302, 0.2306, 0.3486.

Color Blindness Simulation

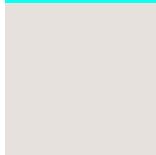
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



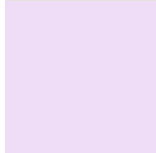
Original Color

77.8302, 0.2306, 0.3486



Protanopia

76.1133, 0.3189, 0.3322



Deuteranopia

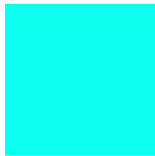
76.2525, 0.3084, 0.3016



Tritanopia

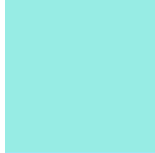
77.3036, 0.2542, 0.3141

Trichromacy



Original Color

77.8302, 0.2306, 0.3486



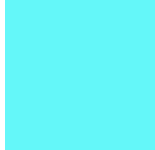
Protanomaly

72.1717, 0.2661, 0.3384



Deuteranomaly

71.8774, 0.2602, 0.3161



Tritanomaly

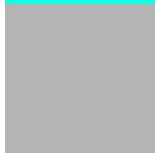
76.0704, 0.2386, 0.3264

Monochromacy



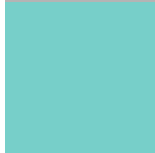
Original Color

77.8302, 0.2306, 0.3486



Achromatopsia

45.6411, 0.3127, 0.3290



Achromatomaly

52.7646, 0.2585, 0.3371

CSS Examples

Text

The CSS property to change the color of the text to Yxy 77.8302, 0.2306, 0.3486 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(12, 255, 239)` looks like.

```
.text, #text, p{  
    color:rgb(12, 255, 239)  
}
```

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(12, 255, 239) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 255, 239) }
```

Border

The CSS property to change the border of an element to Yxy 77.8302, 0.2306, 0.3486 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(12, 255, 239) }
```

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

```
.border{ border-color:rgb(12, 255, 239) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 255, 239)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 255, 239); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 255, 239);  
box-shadow:4px 4px 4px 4px rgb(12, 255,  
239) }
```


Background

The CSS property to change the background color of an element to Yxy 77.8302, 0.2306, 0.3486 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 255, 239) }
```

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

```
.background{ background-color: rgb(12, 255,  
239) }
```

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