

Converting Colors

$Y_{xy}(100.0000, 0.2411, 0.3866)$

Have a look what the booklet for
Yxy(100.0000, 0.2411, 0.3866)
contains.

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Color

Yxy(77.7126, 0.2313, 0.3511)

Conversions

Conversions Part 1

Format	Color
Hex	0CFFED
RGB	12, 255, 237
RGB Percent	5%, 100%, 93%
CMY	0.9539, 0.0000, 0.0705
CMYK	0.95, 0.00, 0.07, 0.00
HSL	176°, 100%, 52%
HSV	176°, 95%, 100%
XYZ	51.1960, 77.7126, 92.4317
YIQ	180.2910, -139.0500, -57.1140

Conversions

Conversions Part 2

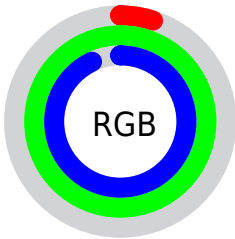
Format	Color
R _Y B	12, 138, 255
Decimal	851949
CIE Lab	90.65, -52.87, -5.50
CIE LCh	91, 53.157, 185.934
Yxy	77.7126, 0.2313, 0.3511
Android (android.graphics.Color)	4279042029 (0xFF0CFFED)
YUV	180.2910, 27.9575, -147.5912
Hunter-Lab	88.1548, -50.6066, -0.4582

Details

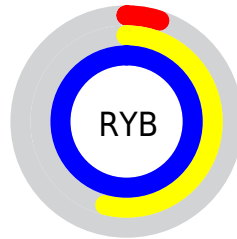
The Yxy color **77.7126, 0.2313, 0.3511** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light saturated cyan. A complement of this color would be **21.6096, 0.6265, 0.3254**, and the grayscale version is **45.6691, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8049, 0.2450, 0.3288**, and **43.2687, 0.2317, 0.3542** is the 20% darker color. If you saturate the color by 10%, you get **77.5845, 0.2312, 0.3522**, and if you desaturate by 10%, it is **78.1442, 0.2324, 0.3486**.

Distribution



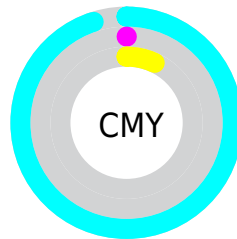
- Red (5%)
- Green (100%)
- Blue (93%)



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



- Cyan (95%)
- Magenta (0%)
- Yellow (7%)
- Black (0%)




- Cyan (95%)
- Magenta (0%)
- Yellow (7%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 77.7126, 0.2313, 0.3511 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 77.7126, 0.2313, 0.3511 by changing the saturation by 10% instead.


 77.7126, 0.2313,
0.3511


 77.7126, 0.2313,
0.3511


487.1902, 0.2678,
0.3418


 57.8379, 0.2233,
0.3530


 130.1449, 0.2437,
0.3480


 41.6784, 0.2136,
0.3553


 163.4713, 0.2486,
0.3468

 28.8495, 0.2016,
0.3580


 202.0504, 0.2528,
0.3457

 18.9670, 0.1865,
0.3611

 246.2666, 0.2565,
0.3447

 11.6464, 0.1668,
0.3649

296.5043, 0.2598,
0.3439

 6.5034, 0.1405,
0.3693

353.1479, 0.2628,

 3.1535, 0.1045,

0.3431

0.3734

416.5817, 0.2654,
0.3424

■ 1.2124, 0.0000,
0.3955

■ 0.0718, 0.0000,
0.1344

■ 77.7126, 0.2313,
0.3511

■ 77.7126, 0.2313,
0.3511


■ 77.5845, 0.2312,
0.3522

■ 78.1442, 0.2324,
0.3486


■ 78.9069, 0.2353,
0.3461


■ 80.0586, 0.2400,
0.3435


■ 81.6468, 0.2468,
0.3410

 83.7124, 0.2554,
0.3386

 86.2913, 0.2658,
0.3362

 89.4162, 0.2777,
0.3340

 93.1169, 0.2908,
0.3319

 97.4213, 0.3049,
0.3300

Harmonies

Analogous

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



77.7126, 0.2802, 0.4120



77.7126, 0.2313, 0.3511



77.7126, 0.2051, 0.2899

Triad

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



77.7126, 0.2313, 0.3511



77.7126, 0.2753, 0.2379



77.7126, 0.4321, 0.3960

Complementary

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



77.7126, 0.2313, 0.3511



21.6096, 0.6265, 0.3254

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.



77.7126, 0.4337, 0.3488



77.7126, 0.2313, 0.3511



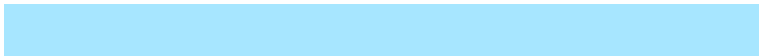
77.7126, 0.3375, 0.2628

Square

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



77.7126, 0.2313, 0.3511



77.7126, 0.2286, 0.2321



77.7126, 0.3979, 0.3020



77.7126, 0.3968, 0.4328

Rectangle

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



77.7126, 0.2313, 0.3511



77.7126, 0.2019, 0.2597



77.7126, 0.3979, 0.3020



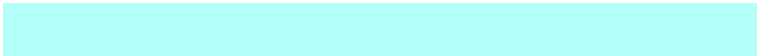
77.7126, 0.4369, 0.3808

Sweetspot

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



77.7117, 0.2313, 0.3511



88.2226, 0.2733, 0.3348



71.8535, 0.3021, 0.5960



18.6018, 0.2682, 0.3357



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.



77.7117, 0.2313, 0.3511



77.5845, 0.2312, 0.3522



30.2923, 0.1869, 0.1907



20.4569, 0.2990, 0.3307



40.5494, 0.2311, 0.3518



3.9548, 0.2303, 0.3490

Inverse Universe

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



21.6096, 0.6265, 0.3254



21.3065, 0.6342, 0.3268



33.1208, 0.5583, 0.3916



18.0089, 0.3283, 0.3273



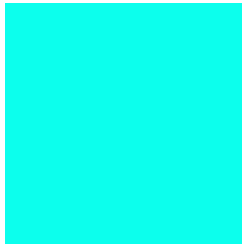
11.1409, 0.6324, 0.3257



1.0920, 0.6156, 0.3165

Previews

White Background



This preview shows how the Yxy color 77.7126, 0.2313, 0.3511 looks on a white background.

Color Contrast Check

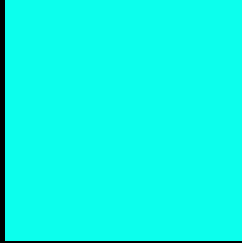
Large Text (above 18pt) WCAG AA × Fail

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 77.7126, 0.2313, 0.3511 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

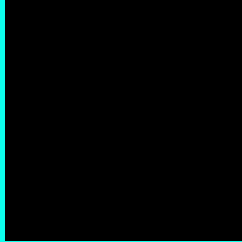
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 77.7126, 0.2313, 0.3511

Background



This preview shows how black text looks on a background with the Yxy color 77.7126, 0.2313, 0.3511.



This preview shows how white text looks on a background with the Yxy color 77.7126, 0.2313, 0.3511.

Color Blindness Simulation

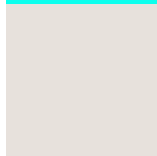
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



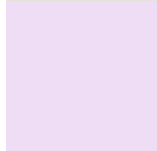
Original Color

77.7126, 0.2313, 0.3511



Protanopia

76.0067, 0.3202, 0.3343



Deuteranopia

76.1297, 0.3097, 0.3036



Tritanopia

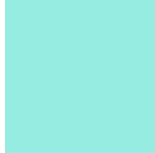
76.6146, 0.2536, 0.3129

Trichromacy



Original Color

77.7126, 0.2313, 0.3511



Protanomaly

72.0612, 0.2672, 0.3408



Deuteranomaly

71.7566, 0.2612, 0.3184



Tritanomaly

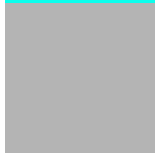
75.3982, 0.2388, 0.3264

Monochromacy



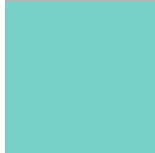
Original Color

77.7126, 0.2313, 0.3511



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 77.7126, 0.2313, 0.3511 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, 237)` looks like.

```
.text, #text, p{  
    color:rgb(12, 255, 237)  
}
```

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, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 255, 237) }
```

Border

The CSS property to change the border of an element to Yxy 77.7126, 0.2313, 0.3511 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, 237) }
```

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

```
.border{ border-color:rgb(12, 255, 237) }
```

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, 237) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 255, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 255, 237);  
box-shadow:4px 4px 4px 4px rgb(12, 255,  
237) }
```


Background

The CSS property to change the background color of an element to Yxy 77.7126, 0.2313, 0.3511 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, 237) }
```

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

```
.background{ background-color: rgb(12, 255,  
237) }
```

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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