

Converting Colors

$Y_{xy}(63.7912, 0.2163, 0.2971)$

Have a look what the booklet for
Yxy(63.7912, 0.2163, 0.2971)
contains.

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Color

Yxy(63.8848, 0.2164, 0.2973)

Conversions

Conversions Part 1

Format	Color
Hex	0CE6FF
RGB	12, 230, 255
RGB Percent	5%, 90%, 100%
CMY	0.9511, 0.0981, 0.0000
CMYK	0.95, 0.10, 0.00, 0.00
HSL	186°, 100%, 52%
HSV	186°, 95%, 100%
XYZ	46.5007, 63.8848, 104.4977
YIQ	167.6680, -137.9530, -38.4410

Conversions

Conversions Part 2

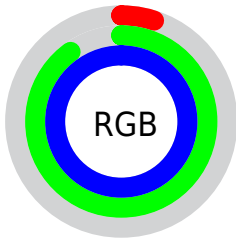
Format	Color
R _Y B	12, 127, 255
Decimal	845567
CIE Lab	83.91, -36.65, -25.03
CIE LCh	84, 44.376, 214.331
Yxy	63.8848, 0.2164, 0.2973
Android (android.graphics.Color)	4279035647 (0xFF0CE6FF)
YUV	167.6680, 43.0547, -136.5208
Hunter-Lab	79.9280, -36.0257, -21.5661

Details

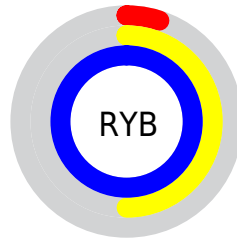
The Yxy color **63.8848, 0.2164, 0.2973** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light saturated cyan. A complement of this color would be **22.6417, 0.6253, 0.3372**, and the grayscale version is **38.8911, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.6619, 0.2443, 0.3288**, and **34.3493, 0.2139, 0.2901** is the 20% darker color. If you saturate the color by 10%, you get **63.0910, 0.2155, 0.2956**, and if you desaturate by 10%, it is **65.6912, 0.2193, 0.3009**.

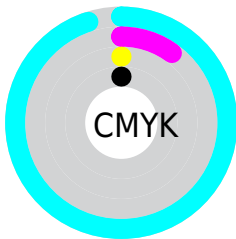
Distribution



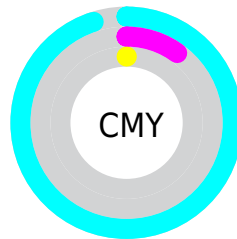
- Red (5%)
- Green (90%)
- Blue (100%)



- Red (5%)
- Yellow (50%)
- Blue (100%)



- Cyan (95%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)





- Cyan (95%)
- Magenta (10%)
- Yellow (0%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 63.8848, 0.2164, 0.2973 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 63.8848, 0.2164, 0.2973 by changing the saturation by 10% instead.


 63.8848, 0.2164,
0.2973


 63.8848, 0.2164,
0.2973


438.7735, 0.2600,
0.3138

 46.5574, 0.2068,
0.2931


 110.4450, 0.2313,
0.3034

 32.6859, 0.1952,
0.2878


 140.4466, 0.2371,
0.3056


 21.8859, 0.1808,
0.2808


 175.4417, 0.2422,
0.3075

 13.7731, 0.1628,
0.2711

 215.8147, 0.2466,
0.3092

 7.9630, 0.1397,
0.2574

 261.9499, 0.2506,
0.3106

 4.0713, 0.1096,
0.2367

314.2319, 0.2541,

 1.7135, 0.0677,

0.3118

0.2041

373.0450, 0.2572,
0.3129

■ 0.4324, 0.0000,
0.1319

■ 0.0000, 0.0000,
0.0000

■ 63.8848, 0.2164,
0.2973

■ 63.8848, 0.2164,
0.2973

■ 63.0910, 0.2155,
0.2956

■ 65.6912, 0.2193,
0.3009

■ 67.8493, 0.2240,
0.3045

■ 70.4189, 0.2306,
0.3081

■ 73.4474, 0.2392,
0.3117

■ 76.9757, 0.2496,
0.3152

■ 81.0396, 0.2617,
0.3186

■ 85.6719, 0.2751,
0.3219

■ 90.9024, 0.2895,
0.3249

■ 96.7590, 0.3048,
0.3277

Harmonies

Analogous

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



63.8848, 0.2417, 0.3521



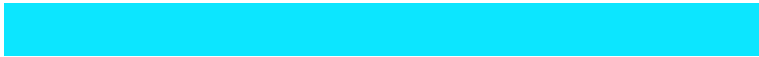
63.8848, 0.2164, 0.2973



63.8848, 0.2144, 0.2587

Triad

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



63.8848, 0.2164, 0.2973



63.8848, 0.3321, 0.2677



63.8848, 0.3909, 0.4210

Complementary

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



63.8848, 0.2164, 0.2973



22.6417, 0.6253, 0.3372

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.



63.8848, 0.4206, 0.3881



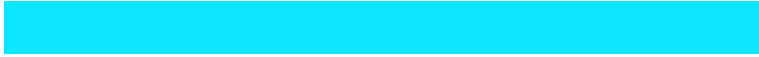
63.8848, 0.2164, 0.2973



63.8848, 0.3861, 0.3029

Square

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



63.8848, 0.2164, 0.2973



63.8848, 0.2768, 0.2458



63.8848, 0.4196, 0.3455



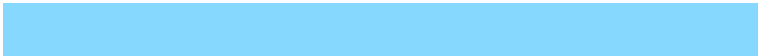
63.8848, 0.3415, 0.4300

Rectangle

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



63.8848, 0.2164, 0.2973



63.8848, 0.2259, 0.2450



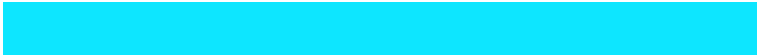
63.8848, 0.4196, 0.3455



63.8848, 0.4036, 0.4119

Sweetspot

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



63.8863, 0.2164, 0.2973



83.7991, 0.2697, 0.3206



71.7335, 0.2980, 0.5897



17.5191, 0.2640, 0.3192



0.0000, 0.0000, 0.0000



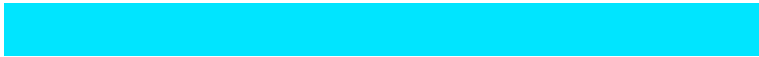
21.4041, 0.3127, 0.3290

Same Dimension

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



63.8863, 0.2164, 0.2973



63.0910, 0.2155, 0.2956



18.3429, 0.1707, 0.1320



20.1423, 0.2980, 0.3265



33.0963, 0.2156, 0.2962



3.3108, 0.2167, 0.3002

Inverse Universe

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



27.2469, 0.3477, 0.1702



26.9002, 0.3493, 0.1698



45.7383, 0.5068, 0.4330



18.2662, 0.3154, 0.3080



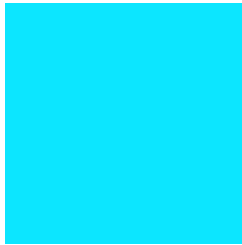
14.0691, 0.3488, 0.1695



1.3788, 0.3452, 0.1675

Previews

White Background



This preview shows how the Yxy color 63.8848, 0.2164, 0.2973 looks on a white background.

Color Contrast Check

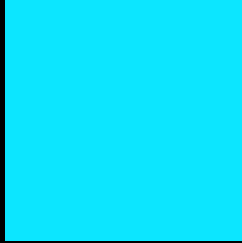
Large Text (above 18pt) WCAG AA × Fail

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 63.8848, 0.2164, 0.2973 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

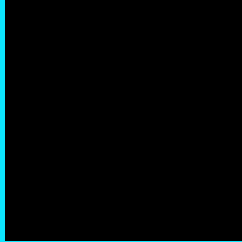
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 63.8848, 0.2164, 0.2973

Background



This preview shows how black text looks on a background with the Yxy color 63.8848, 0.2164, 0.2973.

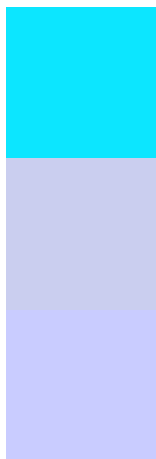


This preview shows how white text looks on a background with the Yxy color 63.8848, 0.2164, 0.2973.

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

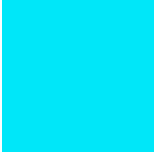
63.8918, 0.2164, 0.2973

Protanopia

62.9312, 0.2878, 0.2921

Deuteranopia

62.8232, 0.2772, 0.2732



Tritanopia

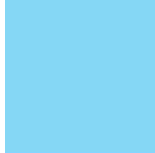
63.9914, 0.2183, 0.3058

Trichromacy



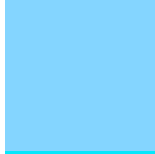
Original Color

63.8918, 0.2164, 0.2973



Protanomaly

60.1800, 0.2450, 0.2922



Deuteranomaly

59.7140, 0.2394, 0.2784



Tritanomaly

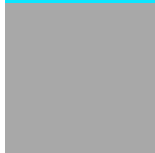
64.1491, 0.2178, 0.3034

Monochromacy



Original Color

63.8918, 0.2164, 0.2973



Achromatopsia

39.1572, 0.3127, 0.3290



Achromatomaly

44.8112, 0.2511, 0.3159

CSS Examples

Text

The CSS property to change the color of the text to Yxy 63.8848, 0.2164, 0.2973 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, 230, 255)` looks like.

```
.text, #text, p{  
    color:rgb(12, 230, 255)  
}
```

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, 230, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 230, 255) }
```

Border

The CSS property to change the border of an element to Yxy 63.8848, 0.2164, 0.2973 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, 230, 255) }
```

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

```
.border{ border-color:rgb(12, 230, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 230, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 230, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 230, 255);  
box-shadow:4px 4px 4px 4px rgb(12, 230,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 63.8848, 0.2164, 0.2973 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 230, 255) }
```

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

```
.background{ background-color: rgb(12, 230,  
255) }
```

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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