

Converting Colors

$Y_{xy}(67.8782, 0.1787, 0.1788)$

Have a look what the booklet for
Yxy(67.8782, 0.1787, 0.1788)
contains.

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Color

Yxy(58.4064, 0.2122, 0.2840)

Conversions

Conversions Part 1

Format	Color
Hex	00DCFF
RGB	0, 220, 255
RGB Percent	0%, 86%, 100%
CMY	1.0000, 0.1372, 0.0000
CMYK	1.00, 0.14, 0.00, 0.00
HSL	188°, 100%, 50%
HSV	188°, 100%, 100%
XYZ	43.6403, 58.4064, 103.6097
YIQ	158.2100, -142.3550, -35.7550

Conversions

Conversions Part 2

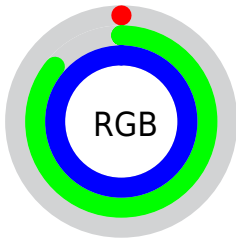
Format	Color
RYB	0, 118, 255
Decimal	56575
CIELab	80.96, -32.22, -29.54
CIELCh	81, 43.708, 222.516
Yxy	58.4064, 0.2122, 0.2840
Android (android.graphics.Color)	4278246655 (0xFF00DCFF)
YUV	158.2100, 47.7175, -138.7502
Hunter-Lab	76.4241, -31.8137, -26.8838

Details

The Yxy color **58.4064, 0.2122, 0.2840** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light saturated cyan. A complement of this color would be **22.4616, 0.6298, 0.3381**, and the grayscale version is **34.1223, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.4530, 0.2433, 0.3288**, and **30.9875, 0.2097, 0.2747** is the 20% darker color. If you saturate the color by 10%, you get **58.4108, 0.2122, 0.2840**, and if you desaturate by 10%, it is **60.4800, 0.2149, 0.2889**.

Distribution



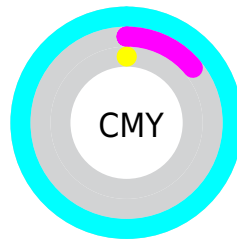
- Red (0%)
- Green (86%)
- Blue (100%)



- Red (0%)
- Yellow (46%)
- Blue (100%)



- Cyan (100%)
- Magenta (14%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (14%)
- Yellow (0%)


Brightness & Saturation Gradients


These gradients show how the Yxy color 58.4064, 0.2122, 0.2840 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 58.4064, 0.2122, 0.2840 by changing the saturation by 10% instead.

 58.4064, 0.2122,
0.2840


 58.4064, 0.2122,
0.2840


 418.6986, 0.2582,
0.3070


 42.1355, 0.2020,
0.2783


 102.5144, 0.2279,
0.2924

 29.2074, 0.1896,
0.2710


 131.1203, 0.2341,
0.2955

 19.2378, 0.1743,
0.2616


 164.6066, 0.2395,
0.2982

 11.8422, 0.1551,
0.2488

 203.3578, 0.2442,
0.3004

 6.6363, 0.1304,
0.2308

 247.7582, 0.2483,
0.3024

 3.2357, 0.0986,
0.2043

298.1921, 0.2520,

 1.2560, 0.0483,

0.3041

0.1652

355.0442, 0.2552,
0.3056

■ 0.1067, 0.0000,
0.0372

■ 0.0000, 0.0000,
0.0000

■ 58.4064, 0.2122,
0.2840

■ 58.4064, 0.2122,
0.2840

■ 58.4108, 0.2122,
0.2840

■ 60.4800, 0.2149,
0.2889

■ 62.8656, 0.2191,
0.2937

■ 65.6526, 0.2252,
0.2986

■ 68.8933, 0.2333,
0.3035

■ 72.6313, 0.2433,
0.3084

■ 76.9049, 0.2550,
0.3130

■ 81.7484, 0.2680,
0.3174

■ 87.1932, 0.2822,
0.3216

■ 93.2681, 0.2972,
0.3255

Harmonies

Analogous

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



58.4064, 0.2315, 0.3364



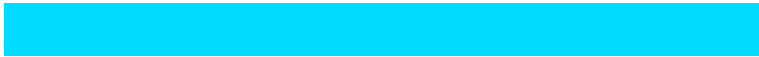
58.4064, 0.2122, 0.2840



58.4064, 0.2166, 0.2508

Triad

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



58.4064, 0.2122, 0.2840



58.4064, 0.3482, 0.2755



58.4064, 0.3797, 0.4279

Complementary

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



58.4064, 0.2122, 0.2840



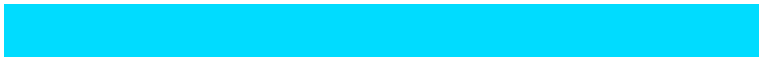
22.4616, 0.6298, 0.3381

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.



58.4064, 0.4166, 0.3995



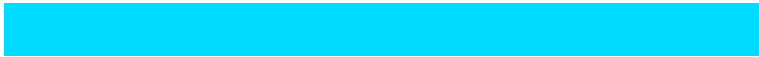
58.4064, 0.2122, 0.2840



58.4064, 0.3993, 0.3138

Square

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



58.4064, 0.2122, 0.2840



58.4064, 0.2906, 0.2491



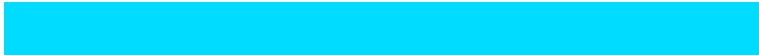
58.4064, 0.4249, 0.3577



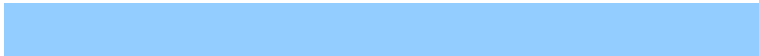
58.4064, 0.3266, 0.4281

Rectangle

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



58.4064, 0.2122, 0.2840



58.4064, 0.2323, 0.2411



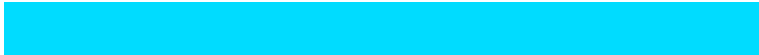
58.4064, 0.4249, 0.3577



58.4064, 0.3945, 0.4208

Sweetspot

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



58.4108, 0.2122, 0.2840



81.7484, 0.2680, 0.3174



71.6355, 0.2976, 0.5914



17.0451, 0.2624, 0.3156



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.



58.4108, 0.2122, 0.2840



15.1368, 0.1648, 0.1134



20.0312, 0.2980, 0.3257



30.6851, 0.2125, 0.2848



3.0999, 0.2140, 0.2904

Inverse Universe

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



26.4277, 0.3597, 0.1755



46.9248, 0.5044, 0.4377



18.2550, 0.3159, 0.3087



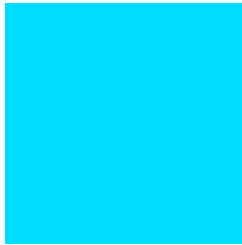
13.8256, 0.3590, 0.1751



1.3575, 0.3540, 0.1724

Previews

White Background



This preview shows how the Yxy color 58.4064, 0.2122, 0.2840 looks on a white background.

Color Contrast Check

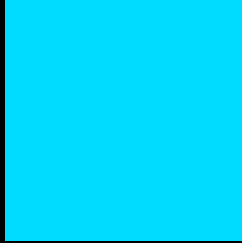
Large Text (above 18pt) WCAG AA × Fail

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 58.4064, 0.2122, 0.2840 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

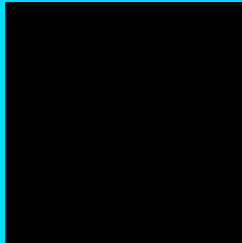
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 58.4064, 0.2122, 0.2840

Background



This preview shows how black text looks on a background with the Yxy color 58.4064, 0.2122, 0.2840.

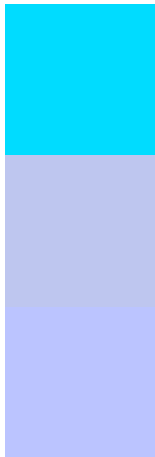


This preview shows how white text looks on a background with the Yxy color 58.4064, 0.2122, 0.2840.

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

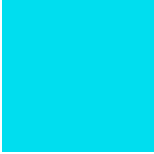
58.4064, 0.2122, 0.2840

Protanopia

57.5673, 0.2790, 0.2817

Deuteranopia

57.2647, 0.2672, 0.2625



Tritanopia

58.4745, 0.2184, 0.3063

Trichromacy



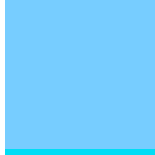
Original Color

58.4064, 0.2122, 0.2840



Protanomaly

54.8001, 0.2372, 0.2799



Deuteranomaly

54.8046, 0.2317, 0.2674



Tritanomaly

58.3055, 0.2160, 0.2974

Monochromacy



Original Color

58.4064, 0.2122, 0.2840



Achromatopsia

34.1914, 0.3127, 0.3290



Achromatomaly

39.6647, 0.2469, 0.3108

CSS Examples

Text

The CSS property to change the color of the text to Yxy 58.4064, 0.2122, 0.2840 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, 220, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 220, 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(0, 220, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 220, 255) }
```

Border

The CSS property to change the border of an element to Yxy 58.4064, 0.2122, 0.2840 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, 220, 255) }
```

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

```
.border{ border-color:rgb(0, 220, 255) }
```

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

Here you see how a box with a 4 pixel rgb(0, 220, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 220, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 220, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 220,  
255) }
```

Background

The CSS property to change the background color of an element to Yxy 58.4064, 0.2122, 0.2840 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 220, 255) }
```

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

```
.background{ background-color: rgb(0, 220,  
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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