

# Converting Colors

$Y_{xy}(84.6845, 0.2635, 0.3439)$

Have a look what the booklet for  
Yxy(84.6845, 0.2635, 0.3439)  
contains.

<b>Yxy(84.7031, 0.2633, 0.3435)</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> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(84.7031, 0.2633, 0.3435)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99FFF2
RGB	153, 255, 242
RGB Percent	60%, 100%, 95%
CMY	0.4000, 0.0000, 0.0508
CMYK	0.40, 0.00, 0.05, 0.00
HSL	172°, 100%, 80%
HSV	172°, 40%, 100%
XYZ	64.9267, 84.7031, 96.9585
YIQ	223.0200, -56.6190, -25.6670

# Conversions

## Conversions Part 2

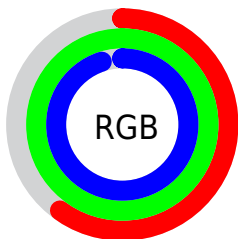
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	153, 207, 255
Decimal	10092530
CIE <sub>Lab</sub>	93.76, -32.73, -3.18
CIE <sub>LCh</sub>	94, 32.886, 185.553
Yxy	84.7031, 0.2633, 0.3435
Android (android.graphics.Color)	4288282610 (0xFF99FF2)
YUV	223.0200, 9.3571, -61.4075
Hunter-Lab	92.0343, -35.1350, 1.9617

# Details

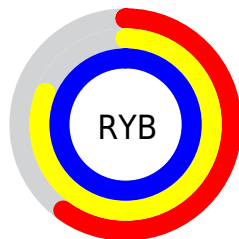
The Yxy color **84.7031, 0.2633, 0.3435** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **46.7925, 0.4014, 0.3156**, and the grayscale version is **73.7704, 0.3127, 0.3290**.

A 20% lighter version of the original color is **92.5889, 0.2866, 0.3289**, and **46.3662, 0.2525, 0.3466** is the 20% darker color. If you saturate the color by 10%, you get **82.2900, 0.2541, 0.3477**, and if you desaturate by 10%, it is **87.6531, 0.2740, 0.3395**.

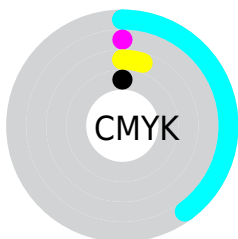
# Distribution



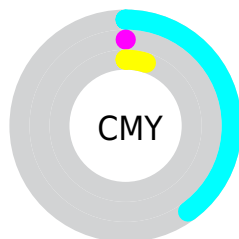
- Red (60%)
- Green (100%)
- Blue (95%)



- Red (60%)
- Yellow (81%)
- Blue (100%)



- Cyan (40%)
- Magenta (0%)
- Yellow (5%)
- Black (0%)




- Cyan (40%)
- Magenta (0%)
- Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 84.7031, 0.2633, 0.3435 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 84.7031, 0.2633, 0.3435 by changing the saturation by 10% instead.





 84.7031, 0.2633,  
0.3435


 84.7031, 0.2633,  
0.3435


510.6451, 0.2853,  
0.3372

 63.5961, 0.2585,  
0.3448

 139.9583, 0.2708,  
0.3414

 46.3236, 0.2526,  
0.3464


 174.8753, 0.2737,  
0.3406

 32.5013, 0.2453,  
0.3484


215.1643, 0.2763,  
0.3398

 21.7447, 0.2360,  
0.3509

261.2099, 0.2786,  
0.3392

 13.6694, 0.2238,  
0.3540

313.3964, 0.2805,  
0.3386

 7.8911, 0.2071,  
0.3581

372.1081, 0.2823,

 4.0253, 0.1829,

0.3381

437.7296, 0.2839,  
0.3376

0.3635

1.6877, 0.1429,  
0.3720

0.4157, 0.0000,  
0.3811

84.7031, 0.2633,  
0.3435

84.7031, 0.2633,  
0.3435

82.2900, 0.2541,  
0.3477

87.6531, 0.2740,  
0.3395

80.3747, 0.2467,  
0.3521

91.1661, 0.2860,  
0.3357

78.9209, 0.2412,  
0.3566

95.2725, 0.2990,  
0.3322

77.8849, 0.2378,  
0.3611

99.9990, 0.3127,  
0.3290

■ 77.2148, 0.2362,  
0.3656

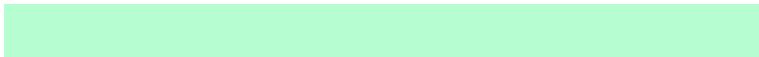
100.0000, 0.3127,  
0.3290

■ 76.8257, 0.2361,  
0.3700

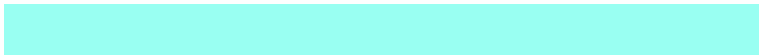
# Harmonies

## Analogous

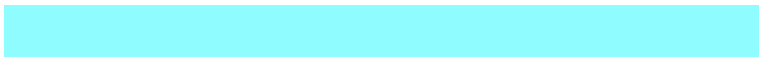
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



84.7031, 0.2946, 0.3771



84.7031, 0.2633, 0.3435



84.7031, 0.2455, 0.3075

# Triad

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



84.7031, 0.2633, 0.3435



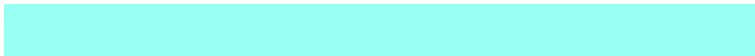
84.7031, 0.2901, 0.2710



84.7031, 0.3855, 0.3725

# Complementary

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



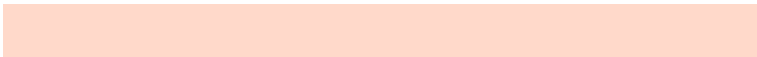
84.7031, 0.2633, 0.3435



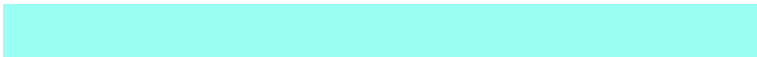
46.7925, 0.4014, 0.3156

# 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.



84.7031, 0.3850, 0.3434



84.7031, 0.2633, 0.3435



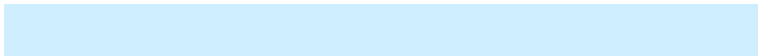
84.7031, 0.3280, 0.2871

# Square

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



84.7031, 0.2633, 0.3435



84.7031, 0.2602, 0.2683



84.7031, 0.3634, 0.3128

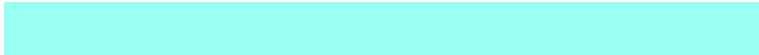


84.7031, 0.3656, 0.3926



# Rectangle

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



84.7031, 0.2633, 0.3435



84.7031, 0.2429, 0.2882



84.7031, 0.3634, 0.3128



84.7031, 0.3878, 0.3634

# Sweetspot

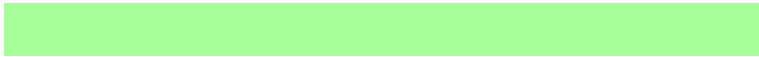
The Sweet Spot groups the original color and five complimentary colors.



84.7048, 0.2633, 0.3435



94.4033, 0.2964, 0.3329



81.9913, 0.3147, 0.4498



20.0874, 0.2947, 0.3333



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

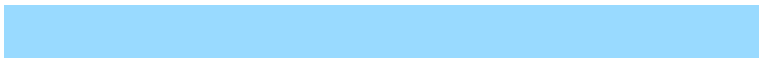
The Same Dimension uses a secret algorithm to generate beautiful new colors.



84.7048, 0.2633, 0.3435



82.7323, 0.2558, 0.3469



63.9265, 0.2506, 0.2853



20.4394, 0.2997, 0.3320



40.1587, 0.2359, 0.3693



3.9207, 0.2345, 0.3642



# Inverse Universe

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



46.7925, 0.4014, 0.3156



40.0688, 0.4294, 0.3132



60.5588, 0.3983, 0.3683



18.0246, 0.3274, 0.3260



11.1760, 0.6243, 0.3213

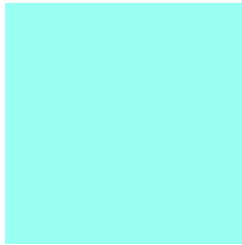


1.0994, 0.5995, 0.3076



# Previews

## White Background



This preview shows how the Yxy color 84.7031, 0.2633, 0.3435 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

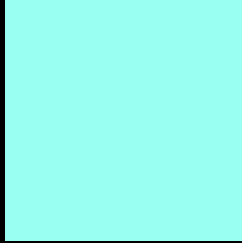
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 84.7031, 0.2633, 0.3435 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

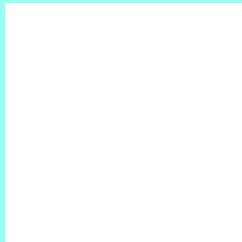
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 84.7031, 0.2633, 0.3435**

## **Background**



This preview shows how black text looks on a background with the Yxy color 84.7031, 0.2633, 0.3435.

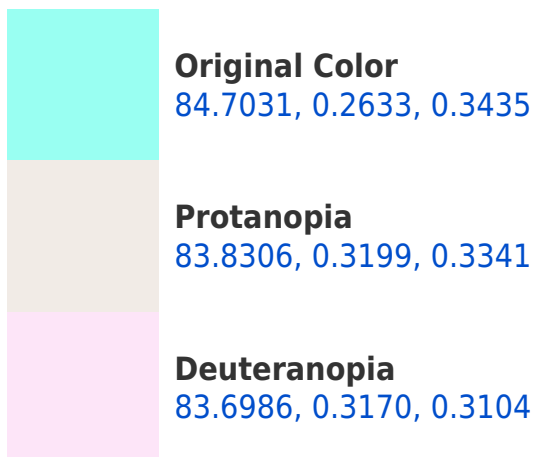


This preview shows how white text looks on a background with the Yxy color 84.7031, 0.2633, 0.3435.

# 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





## Tritanopia

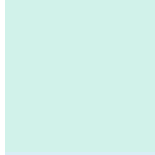
84.3389, 0.2803, 0.3173

# Trichromacy



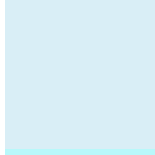
## Original Color

84.7031, 0.2633, 0.3435



## Protanomaly

83.0001, 0.2964, 0.3375



## Deuteranomaly

82.5546, 0.2945, 0.3206



## Tritanomaly

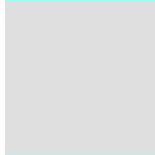
84.2273, 0.2738, 0.3267

# Monochromacy



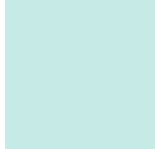
## Original Color

84.7031, 0.2633, 0.3435



## Achromatopsia

73.7910, 0.3127, 0.3290



## Achromatomaly

77.1356, 0.2917, 0.3345

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 84.7031, 0.2633, 0.3435 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(153, 255, 242)` looks like.

```
.text, #text, p{  
    color:rgb(153, 255, 242)  
}
```

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(153, 255, 242) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 255, 242) }
```

## Border

The CSS property to change the border of an element to Yxy 84.7031, 0.2633, 0.3435 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(153, 255, 242) }
```

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

```
.border{ border-color:rgb(153, 255, 242) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 255, 242)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 255, 242); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 255, 242);  
box-shadow:4px 4px 4px 4px rgb(153, 255,  
242) }
```



# Background

The CSS property to change the background color of an element to Yxy 84.7031, 0.2633, 0.3435 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 255, 242) }
```

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

```
.background{ background-color: rgb(153,  
255, 242) }
```

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