

# Converting Colors

$Y_{xy}(83.2300, 0.2690, 0.3640)$

Have a look what the booklet for  
Yxy(83.2300, 0.2690, 0.3640)  
contains.

<b>Yxy(83.2521, 0.2690, 0.3637)</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(83.2521, 0.2690, 0.3637)**

# Conversions

## Conversions Part 1

Format	Color
Hex	94FFE1
RGB	148, 255, 225
RGB Percent	58%, 100%, 88%
CMY	0.4193, 0.0000, 0.1175
CMYK	0.42, 0.00, 0.12, 0.00
HSL	163°, 100%, 79%
HSV	163°, 42%, 100%
XYZ	61.5750, 83.2521, 84.0762
YIQ	219.5870, -54.1420, -32.0140

# Conversions

## Conversions Part 2

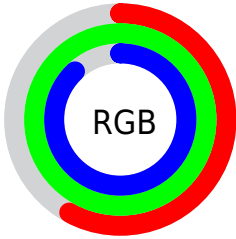
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	148, 210, 255
Decimal	9764833
CIE <sub>Lab</sub>	93.12, -37.73, 4.66
CIE <sub>LCh</sub>	93, 38.013, 172.957
Yxy	83.2521, 0.2690, 0.3637
Android (android.graphics.Color)	4287954913 (0xFF94FFE1)
YUV	219.5870, 2.6686, -62.7818
Hunter-Lab	91.2426, -39.2140, 9.2366

# Details

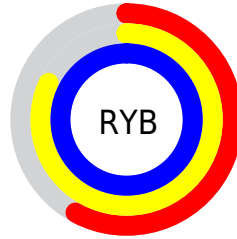
The Yxy color **83.2521, 0.2690, 0.3637** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **45.6760, 0.3905, 0.2979**, and the grayscale version is **71.2904, 0.3127, 0.3290**.

A 20% lighter version of the original color is **91.8618, 0.2838, 0.3289**, and **45.4641, 0.2590, 0.3718** is the 20% darker color. If you saturate the color by 10%, you get **80.7504, 0.2615, 0.3737**, and if you desaturate by 10%, it is **86.3006, 0.2780, 0.3543**.

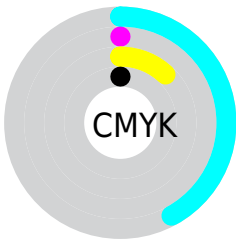
# Distribution



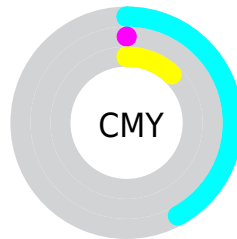
- Red (58%)
- Green (100%)
- Blue (88%)



- Red (58%)
- Yellow (82%)
- Blue (100%)



- Cyan (42%)
- Magenta (0%)
- Yellow (12%)
- Black (0%)




- Cyan (42%)
- Magenta (0%)
- Yellow (12%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.2521, 0.2690, 0.3637 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 83.2521, 0.2690, 0.3637 by changing the saturation by 10% instead.




 83.2521, 0.2690,  
0.3637


 83.2521, 0.2690,  
0.3637

505.8263, 0.2888,  
0.3477

 62.3981, 0.2646,  
0.3673


 137.9285, 0.2758,  
0.3582

 45.3545, 0.2591,  
0.3718


 172.5197, 0.2785,  
0.3560

 31.7367, 0.2524,  
0.3774

212.4588, 0.2808,  
0.3542

 21.1605, 0.2436,  
0.3847

258.1302, 0.2828,  
0.3526

 13.2414, 0.2320,  
0.3946

309.9182, 0.2846,  
0.3511

 7.5950, 0.2157,  
0.4088

368.2073, 0.2861,

 3.8369, 0.1914,

0.3499

433.3819, 0.2876,  
0.3488

0.4305

1.5827, 0.1382,  
0.4754

0.3459, 0.0000,  
0.8720

83.2521, 0.2690,  
0.3637

83.2521, 0.2690,  
0.3637

80.7504, 0.2615,  
0.3737

86.3006, 0.2780,  
0.3543

78.7505, 0.2556,  
0.3840

89.9177, 0.2881,  
0.3456

77.2166, 0.2517,  
0.3947

94.1359, 0.2990,  
0.3376

76.1035, 0.2499,  
0.4054

98.9826, 0.3105,  
0.3303

■ 75.3571, 0.2500,  
0.4161

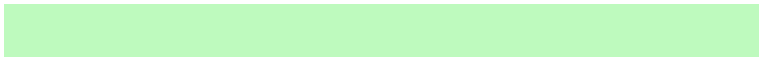
99.9953, 0.3127,  
0.3290

■ 74.9564, 0.2513,  
0.4246

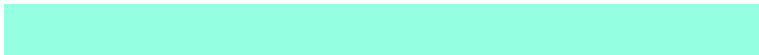
# Harmonies

## Analogous

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



83.2521, 0.3093, 0.3975



83.2521, 0.2690, 0.3637



83.2521, 0.2415, 0.3204

# Triad

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



83.2521, 0.2690, 0.3637



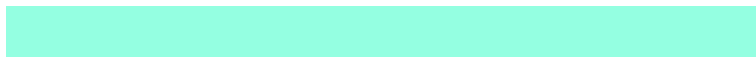
83.2521, 0.2703, 0.2591



83.2521, 0.4003, 0.3652

# Complementary

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



83.2521, 0.2690, 0.3637



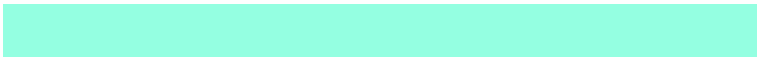
45.6760, 0.3905, 0.2979

# 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.



83.2521, 0.3891, 0.3300



83.2521, 0.2690, 0.3637



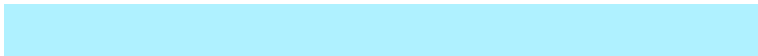
83.2521, 0.3113, 0.2715

# Square

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



83.2521, 0.2690, 0.3637



83.2521, 0.2424, 0.2627



83.2521, 0.3555, 0.2968

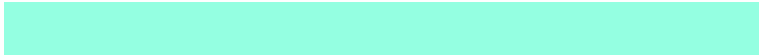


83.2521, 0.3861, 0.3944



# Rectangle

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



83.2521, 0.2690, 0.3637



83.2521, 0.2332, 0.2946



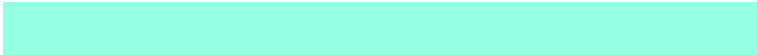
83.2521, 0.3555, 0.2968



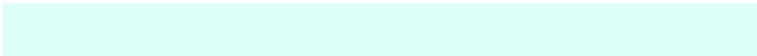
83.2521, 0.3994, 0.3537

# Sweetspot

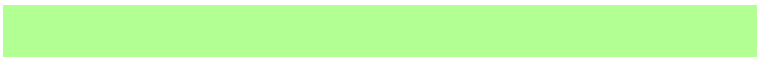
The Sweet Spot groups the original color and five complimentary colors.



83.2554, 0.2690, 0.3637



93.6619, 0.2978, 0.3384



83.1638, 0.3242, 0.4528



19.8400, 0.2954, 0.3401



0.0000, 0.0000, 0.0000

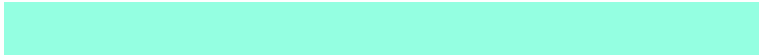


21.4041, 0.3127, 0.3290

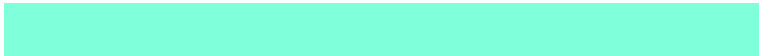


# Same Dimension

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



83.2554, 0.2690, 0.3637



81.1991, 0.2628, 0.3717



71.1372, 0.2509, 0.3021



20.3895, 0.3018, 0.3357



39.1956, 0.2508, 0.4228



3.8350, 0.2474, 0.4108



# Inverse Universe

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



45.6760, 0.3905, 0.2979



39.2209, 0.4139, 0.2924



52.6141, 0.4113, 0.3536



18.0707, 0.3250, 0.3224



11.3714, 0.5837, 0.2989

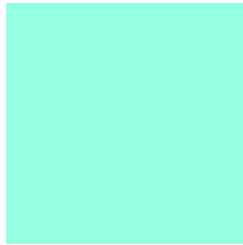


1.1249, 0.5518, 0.2813



# Previews

## White Background



This preview shows how the Yxy color 83.2521, 0.2690, 0.3637 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

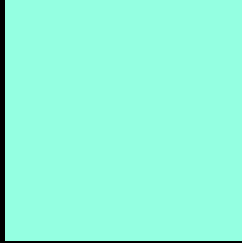
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.2521, 0.2690, 0.3637 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

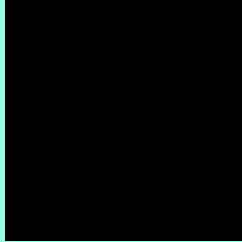
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

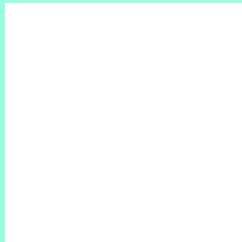
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 83.2521, 0.2690, 0.3637**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.2521, 0.2690, 0.3637.



This preview shows how white text looks on a background with the Yxy color 83.2521, 0.2690, 0.3637.

# 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

83.2521, 0.2690, 0.3637

### Protanopia

82.1366, 0.3325, 0.3496

### Deuteranopia

81.9677, 0.3297, 0.3251



## Tritanopia

82.9233, 0.2768, 0.3161

# Trichromacy



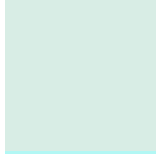
## Original Color

83.2521, 0.2690, 0.3637



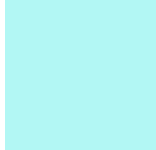
## Protanomaly

81.3302, 0.3057, 0.3552



## Deuteranomaly

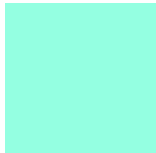
80.8244, 0.3038, 0.3375



## Tritanomaly

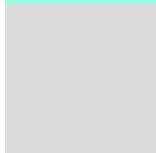
82.5182, 0.2735, 0.3322

# Monochromacy



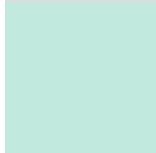
## Original Color

83.2521, 0.2690, 0.3637



## Achromatopsia

71.5694, 0.3127, 0.3290



## Achromatomaly

75.0211, 0.2938, 0.3414

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.2521, 0.2690, 0.3637 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(148, 255, 225)` looks like.

```
.text, #text, p{  
    color:rgb(148, 255, 225)  
}
```

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(148, 255, 225) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(148, 255, 225) }
```

## Border

The CSS property to change the border of an element to Yxy 83.2521, 0.2690, 0.3637 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(148, 255, 225) }
```

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

```
.border{ border-color:rgb(148, 255, 225) }
```

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

Here you see how a box with a 4 pixel rgb(148, 255, 225) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(148, 255, 225); -webkit-box-  
shadow:4px 4px 4px 4px rgb(148, 255, 225);  
box-shadow:4px 4px 4px 4px rgb(148, 255,  
225) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.2521, 0.2690, 0.3637 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(148, 255, 225) }
```

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

```
.background{ background-color: rgb(148,  
255, 225) }
```

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