

# Converting Colors

$Yxy(84.2248, 0.2674, 0.3535)$

Have a look what the booklet for  
Yxy(84.2248, 0.2674, 0.3535)  
contains.

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# Color

**Yxy(84.1755, 0.2675, 0.3540)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99FFE9
RGB	153, 255, 233
RGB Percent	60%, 100%, 91%
CMY	0.4000, 0.0000, 0.0862
CMYK	0.40, 0.00, 0.09, 0.00
HSL	167°, 100%, 80%
HSV	167°, 40%, 100%
XYZ	63.6072, 84.1755, 90.0012
YIQ	221.9940, -53.7300, -28.4660

# Conversions

## Conversions Part 2

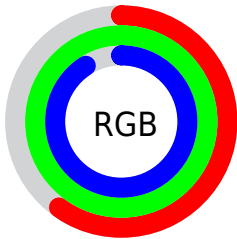
<b>Format</b>	<b>Color</b>
<b>RYB</b>	153, 210, 255
Decimal	10092521
CIELab	93.53, -34.75, 1.14
CIELCh	94, 34.770, 178.119
Yxy	84.1755, 0.2675, 0.3540
Android (android.graphics.Color)	4288282601 (0xFF99FFE9)
YUV	221.9940, 5.4260, -60.5077
Hunter-Lab	91.7472, -36.8058, 6.0614

# Details

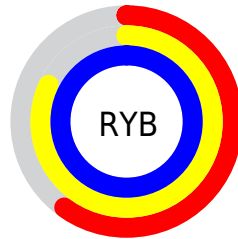
The Yxy color **84.1755, 0.2675, 0.3540** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **47.1380, 0.3921, 0.3061**, and the grayscale version is **73.0338, 0.3127, 0.3290**.

A 20% lighter version of the original color is **92.5889, 0.2866, 0.3289**, and **46.0493, 0.2580, 0.3605** is the 20% darker color. If you saturate the color by 10%, you get **81.6460, 0.2591, 0.3614**, and if you desaturate by 10%, it is **87.2481, 0.2774, 0.3470**.

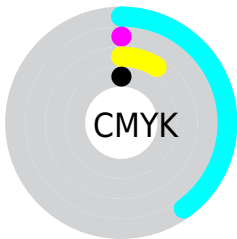
# Distribution



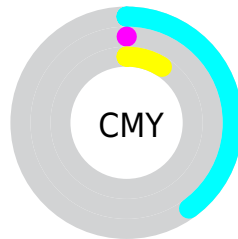
- Red (60%)
- Green (100%)
- Blue (91%)



- Red (60%)
- Yellow (82%)
- Blue (100%)



- Cyan (40%)
- Magenta (0%)
- Yellow (9%)
- Black (0%)




- Cyan (40%)
- Magenta (0%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 84.1755, 0.2675, 0.3540 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 84.1755, 0.2675, 0.3540 by changing the saturation by 10% instead.




 84.1755, 0.2675,  
0.3540


 84.1755, 0.2675,  
0.3540


508.8958, 0.2878,  
0.3427

 63.1603, 0.2630,  
0.3565


 139.2206, 0.2744,  
0.3501

 45.9709, 0.2575,  
0.3596


 174.0194, 0.2772,  
0.3486

 32.2229, 0.2507,  
0.3634


214.1815, 0.2795,  
0.3473

 21.5318, 0.2419,  
0.3684

260.0914, 0.2816,  
0.3462

 13.5133, 0.2303,  
0.3749

312.1333, 0.2834,  
0.3451

 7.7829, 0.2142,  
0.3841

370.6918, 0.2851,

 3.9564, 0.1907,

0.3442

0.3977

436.1512, 0.2865,  
0.3434

■ 1.6492, 0.1474,  
0.4227

■ 0.3904, 0.0000,  
0.5307

■ 84.1755, 0.2675,  
0.3540

■ 84.1755, 0.2675,  
0.3540

■ 81.6460, 0.2591,  
0.3614

■ 87.2481, 0.2774,  
0.3470

■ 79.6207, 0.2524,  
0.3692


■ 90.8902, 0.2884,  
0.3405

■ 78.0630, 0.2476,  
0.3771

■ 95.1322, 0.3003,  
0.3345

■ 76.9293, 0.2448,  
0.3851

100.0000, 0.3127,  
0.3290

 76.1675, 0.2439,  
0.3931

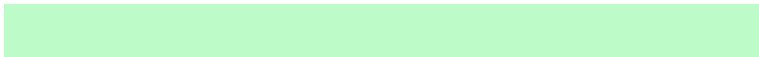
 75.6927, 0.2447,  
0.4010

 75.6927, 0.2447,  
0.4010

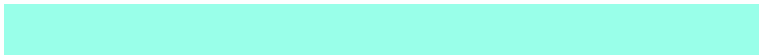
# Harmonies

## Analogous

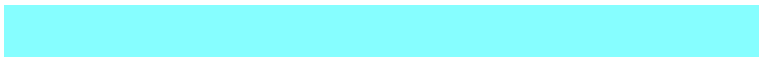
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



84.1755, 0.3030, 0.3870



84.1755, 0.2675, 0.3540



84.1755, 0.2448, 0.3150

# Triad

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



84.1755, 0.2675, 0.3540



84.1755, 0.2798, 0.2657



84.1755, 0.3919, 0.3677

# Complementary

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



84.1755, 0.2675, 0.3540



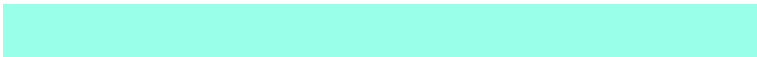
47.1380, 0.3921, 0.3061

# 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.



84.1755, 0.3856, 0.3359



84.1755, 0.2675, 0.3540



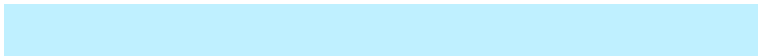
84.1755, 0.3186, 0.2794

# Square

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



84.1755, 0.2675, 0.3540



84.1755, 0.2516, 0.2666



84.1755, 0.3581, 0.3044

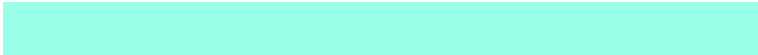


84.1755, 0.3756, 0.3923



# Rectangle

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



84.1755, 0.2675, 0.3540



84.1755, 0.2391, 0.2926



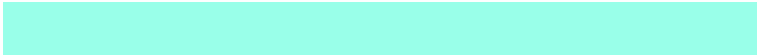
84.1755, 0.3581, 0.3044



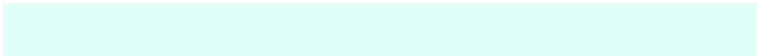
84.1755, 0.3924, 0.3575

# Sweetspot

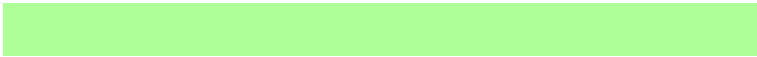
The Sweet Spot groups the original color and five complimentary colors.



84.1771, 0.2675, 0.3540



94.2339, 0.2978, 0.3356



82.9459, 0.3197, 0.4479



20.0473, 0.2963, 0.3364



0.0000, 0.0000, 0.0000

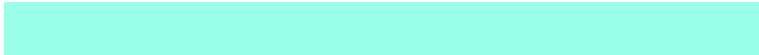


21.4041, 0.3127, 0.3290

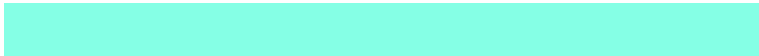


# Same Dimension

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



84.1771, 0.2675, 0.3540



82.1103, 0.2606, 0.3599



68.4403, 0.2522, 0.2955



20.4105, 0.3009, 0.3342



39.5741, 0.2444, 0.3997



3.8691, 0.2419, 0.3907



# Inverse Universe

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



47.1380, 0.3921, 0.3061



40.4280, 0.4169, 0.3019



56.9760, 0.4020, 0.3596



18.0511, 0.3260, 0.3239



11.2704, 0.6038, 0.3100

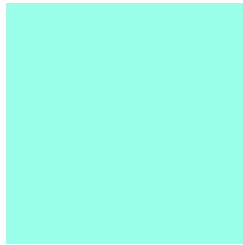


1.1126, 0.5734, 0.2932



# Previews

## White Background



This preview shows how the Yxy color 84.1755, 0.2675, 0.3540 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

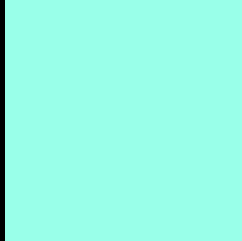
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 84.1755, 0.2675, 0.3540 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

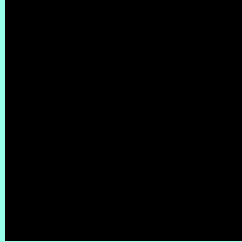
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 84.1755, 0.2675, 0.3540**

## **Background**



This preview shows how black text looks on a background with the Yxy color 84.1755, 0.2675, 0.3540.

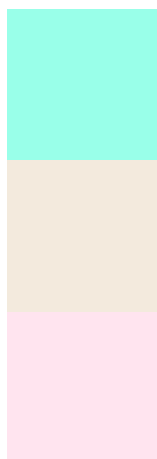


This preview shows how white text looks on a background with the Yxy color 84.1755, 0.2675, 0.3540.

# 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

84.1755, 0.2675, 0.3540

### Protanopia

83.1208, 0.3271, 0.3423

### Deuteranopia

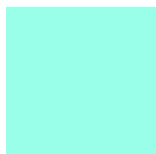
82.9788, 0.3243, 0.3182



## Tritanopia

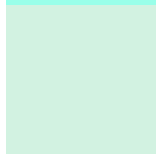
83.4633, 0.2790, 0.3162

# Trichromacy



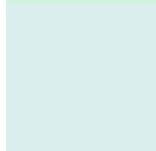
## Original Color

84.1755, 0.2675, 0.3540



## Protanomaly

82.6421, 0.3022, 0.3473



## Deuteranomaly

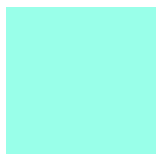
82.1689, 0.3003, 0.3300



## Tritanomaly

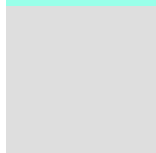
83.1820, 0.2742, 0.3289

# Monochromacy



## Original Color

84.1755, 0.2675, 0.3540



## Achromatopsia

73.0461, 0.3127, 0.3290



## Achromatomaly

76.2069, 0.2934, 0.3379

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 84.1755, 0.2675, 0.3540 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, 233)` looks like.

```
.text, #text, p{  
    color:rgb(153, 255, 233)  
}
```

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, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 255, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 84.1755, 0.2675, 0.3540 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, 233) }
```

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

```
.border{ border-color:rgb(153, 255, 233) }
```

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, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 255, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 255, 233);  
box-shadow:4px 4px 4px 4px rgb(153, 255,  
233) }
```



# Background

The CSS property to change the background color of an element to Yxy 84.1755, 0.2675, 0.3540 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, 233) }
```

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

```
.background{ background-color: rgb(153,  
255, 233) }
```

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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