

# Converting Colors

$Y_{xy}(109.2141, 0.2752, 0.3739)$

Have a look what the booklet for  
Yxy(109.2141, 0.2752, 0.3739)  
contains.

<b>Yxy(86.8223, 0.2714, 0.3410)</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(86.8223, 0.2714, 0.3410)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ACFFF4
RGB	172, 255, 244
RGB Percent	67%, 100%, 96%
CMY	0.3254, 0.0000, 0.0432
CMYK	0.33, 0.00, 0.04, 0.00
HSL	172°, 100%, 84%
HSV	172°, 33%, 100%
XYZ	69.1014, 86.8223, 98.6872
YIQ	228.9290, -45.9370, -21.0170

# Conversions

## Conversions Part 2

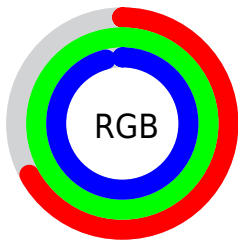
<b>Format</b>	<b>Color</b>
<b>RYB</b>	172, 216, 255
Decimal	11337716
CIELab	94.66, -27.40, -2.75
CIELCh	95, 27.540, 185.738
Yxy	86.8223, 0.2714, 0.3410
Android (android.graphics.Color)	4289527796 (0xFFACFF4)
YUV	228.9290, 7.4300, -49.9267
Hunter-Lab	93.1785, -30.6863, 2.4297

# Details

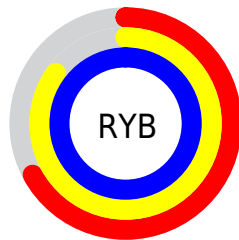
The Yxy color **86.8223, 0.2714, 0.3410** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **54.1903, 0.3783, 0.3176**, and the grayscale version is **78.2701, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.5630, 0.2976, 0.3290**, and **47.7320, 0.2623, 0.3432** is the 20% darker color. If you saturate the color by 10%, you get **84.0048, 0.2611, 0.3453**, and if you desaturate by 10%, it is **90.1978, 0.2831, 0.3370**.

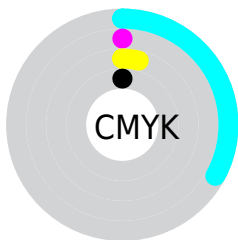
# Distribution



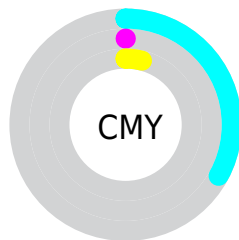
- Red (67%)
- Green (100%)
- Blue (96%)



- Red (67%)
- Yellow (85%)
- Blue (100%)



- Cyan (33%)
- Magenta (0%)
- Yellow (4%)
- Black (0%)




- Cyan (33%)
- Magenta (0%)
- Yellow (4%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 86.8223, 0.2714, 0.3410 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 86.8223, 0.2714, 0.3410 by changing the saturation by 10% instead.




 86.8223, 0.2714,  
0.3410

 86.8223, 0.2714,  
0.3410


517.6388, 0.2898,  
0.3358

 65.3482, 0.2674,  
0.3421

 142.9164, 0.2776,  
0.3393

 47.7434, 0.2625,  
0.3435


178.3052, 0.2801,  
0.3386

 33.6238, 0.2564,  
0.3451


219.1010, 0.2822,  
0.3380

 22.6047, 0.2487,  
0.3471

265.6882, 0.2841,  
0.3374

 14.3019, 0.2385,  
0.3498

318.4511, 0.2858,  
0.3369

 8.3309, 0.2246,  
0.3533

377.7743, 0.2873,

 4.3074, 0.2043,

0.3365

0.3580

444.0421, 0.2886,  
0.3361

1.8470, 0.1727,  
0.3648

0.5162, 0.0000,  
0.4062

86.8223, 0.2714,  
0.3410

86.8223, 0.2714,  
0.3410

84.0048, 0.2611,  
0.3453

90.1978, 0.2831,  
0.3370

81.7125, 0.2524,  
0.3498

94.1595, 0.2958,  
0.3332

79.9108, 0.2455,  
0.3544

98.7350, 0.3092,  
0.3298

78.5603, 0.2406,  
0.3591

100.0000, 0.3127,  
0.3290

■ 77.6157, 0.2376,  
0.3638

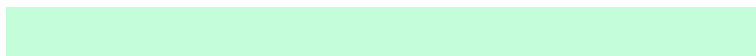
■ 77.0222, 0.2365,  
0.3685

■ 76.7479, 0.2367,  
0.3720

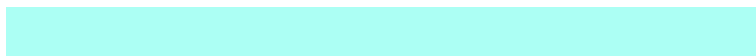
# Harmonies

## Analogous

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



86.8223, 0.2977, 0.3684



86.8223, 0.2714, 0.3410



86.8223, 0.2563, 0.3114

# Triad

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



86.8223, 0.2714, 0.3410



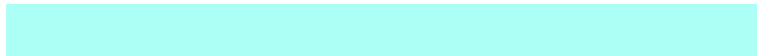
86.8223, 0.2943, 0.2803



86.8223, 0.3731, 0.3659

# Complementary

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



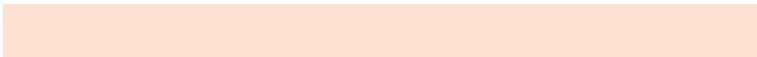
86.8223, 0.2714, 0.3410



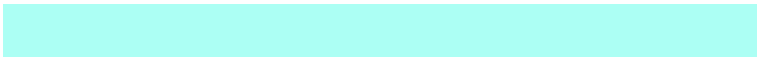
54.1903, 0.3783, 0.3176

# 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.



86.8223, 0.3726, 0.3417



86.8223, 0.2714, 0.3410



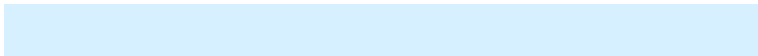
86.8223, 0.3258, 0.2939

# Square

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



86.8223, 0.2714, 0.3410



86.8223, 0.2689, 0.2781



86.8223, 0.3550, 0.3158

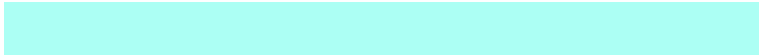


86.8223, 0.3568, 0.3820



# Rectangle

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



86.8223, 0.2714, 0.3410



86.8223, 0.2541, 0.2952



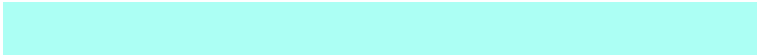
86.8223, 0.3550, 0.3158



86.8223, 0.3750, 0.3584

# Sweetspot

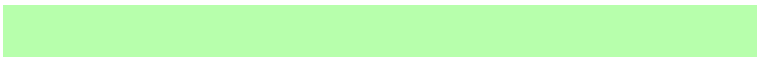
The Sweet Spot groups the original color and five complimentary colors.



86.8226, 0.2714, 0.3410



95.2642, 0.2991, 0.3323



84.5759, 0.3147, 0.4242



20.2588, 0.2973, 0.3328



0.0000, 0.0000, 0.0000

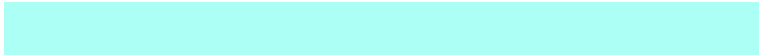


21.4041, 0.3127, 0.3290

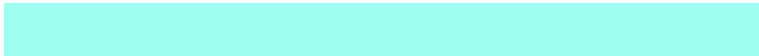


# Same Dimension

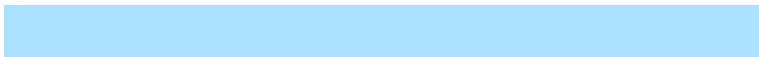
The Same Dimension uses a secret algorithm to generate beautiful new colors.



86.8226, 0.2714, 0.3410



84.9415, 0.2646, 0.3437



69.6112, 0.2619, 0.2946



20.4375, 0.2998, 0.3322



40.1186, 0.2365, 0.3712



3.9172, 0.2350, 0.3659



# Inverse Universe

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



54.1903, 0.3783, 0.3176



47.7416, 0.3976, 0.3154



66.6877, 0.3783, 0.3608



18.0263, 0.3273, 0.3259



11.1807, 0.6232, 0.3207

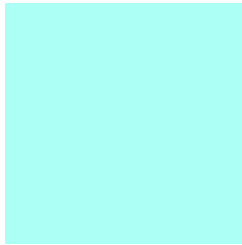


1.1002, 0.5978, 0.3067



# Previews

## White Background



This preview shows how the Yxy color 86.8223, 0.2714, 0.3410 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

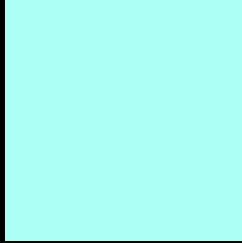
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 86.8223, 0.2714, 0.3410 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

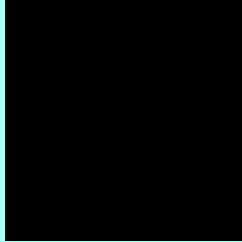
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

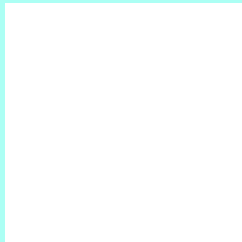
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 86.8223, 0.2714, 0.3410**

## **Background**



This preview shows how black text looks on a background with the Yxy color 86.8223, 0.2714, 0.3410.

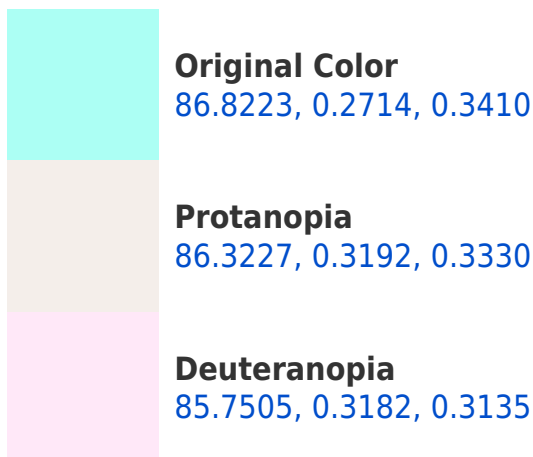


This preview shows how white text looks on a background with the Yxy color 86.8223, 0.2714, 0.3410.

# 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

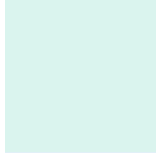
86.5219, 0.2867, 0.3186

# Trichromacy



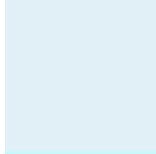
## Original Color

86.8223, 0.2714, 0.3410



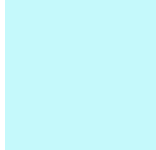
## Protanomaly

85.7798, 0.2997, 0.3352



## Deuteranomaly

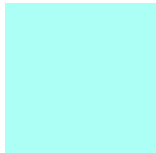
85.0431, 0.2989, 0.3218



## Tritanomaly

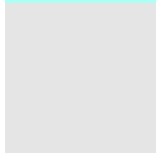
86.5867, 0.2805, 0.3268

# Monochromacy



## Original Color

86.8223, 0.2714, 0.3410



## Achromatopsia

78.3538, 0.3127, 0.3290



## Achromatomaly

80.4995, 0.2957, 0.3333

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 86.8223, 0.2714, 0.3410 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(172, 255, 244)` looks like.

```
.text, #text, p{  
    color:rgb(172, 255, 244)  
}
```

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(172, 255, 244) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 255, 244) }
```

## Border

The CSS property to change the border of an element to Yxy 86.8223, 0.2714, 0.3410 is called "border". The border property can be set on classes, ids or directly on the HTML element.

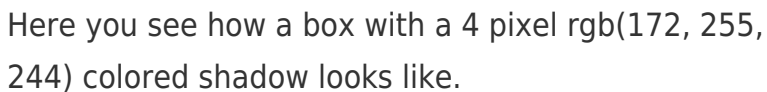
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(172, 255, 244) }
```

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

```
.border{ border-color:rgb(172, 255, 244) }
```

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



Here you see how a box with a 4 pixel `rgb(172, 255, 244)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 255, 244); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 255, 244);  
box-shadow:4px 4px 4px 4px rgb(172, 255,  
244) }
```



# Background

The CSS property to change the background color of an element to Yxy 86.8223, 0.2714, 0.3410 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 255, 244) }
```

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

```
.background{ background-color: rgb(172,  
255, 244) }
```

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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