

# Converting Colors

$Y_{xy}(122.1041, 0.2833, 0.4057)$

Have a look what the booklet for  
Yxy(122.1041, 0.2833, 0.4057)  
contains.

<b>Yxy(86.1174, 0.2788, 0.3568)</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(86.1174, 0.2788, 0.3568)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ADFFE6
RGB	173, 255, 230
RGB Percent	68%, 100%, 90%
CMY	0.3213, 0.0000, 0.0980
CMYK	0.32, 0.00, 0.10, 0.00
HSL	162°, 100%, 84%
HSV	162°, 32%, 100%
XYZ	67.2913, 86.1174, 87.9517
YIQ	227.6320, -40.8470, -25.1590

# Conversions

## Conversions Part 2

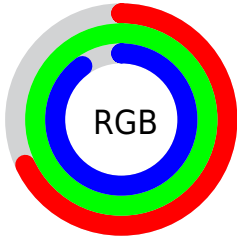
<b>Format</b>	<b>Color</b>
<b>RYB</b>	173, 221, 255
Decimal	11403238
CIELab	94.36, -30.07, 4.02
CIElCh	94, 30.335, 172.389
Yxy	86.1174, 0.2788, 0.3568
Android (android.graphics.Color)	4289593318 (0xFFADFFE6)
YUV	227.6320, 1.1674, -47.9123
Hunter-Lab	92.7995, -32.9641, 8.7669

# Details

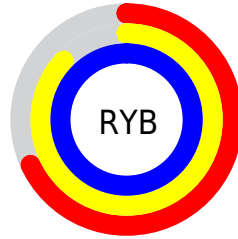
The Yxy color **86.1174, 0.2788, 0.3568** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **55.2556, 0.3643, 0.3031**, and the grayscale version is **77.3286, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.5630, 0.2976, 0.3290**, and **47.3349, 0.2712, 0.3625** is the 20% darker color. If you saturate the color by 10%, you get **83.0573, 0.2701, 0.3671**, and if you desaturate by 10%, it is **89.7588, 0.2886, 0.3473**.

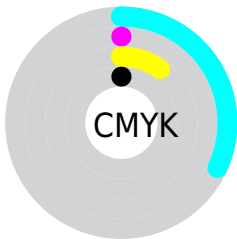
# Distribution



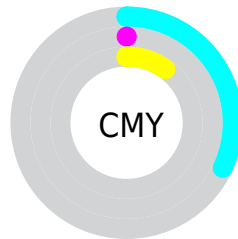
- Red (68%)
- Green (100%)
- Blue (90%)



- Red (68%)
- Yellow (87%)
- Blue (100%)



- Cyan (32%)
- Magenta (0%)
- Yellow (10%)
- Black (0%)




- Cyan (32%)
- Magenta (0%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 86.1174, 0.2788, 0.3568 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 86.1174, 0.2788, 0.3568 by changing the saturation by 10% instead.




 86.1174, 0.2788,  
0.3568

 86.1174, 0.2788,  
0.3568

515.3182, 0.2941,  
0.3441

 64.7651, 0.2754,  
0.3597


 141.9333, 0.2840,  
0.3524

 47.2706, 0.2712,  
0.3632

177.1657, 0.2861,  
0.3507

 33.2496, 0.2660,  
0.3676


217.7935, 0.2879,  
0.3493

 22.3177, 0.2594,  
0.3733

264.2011, 0.2894,  
0.3480

 14.0906, 0.2505,  
0.3809

316.7731, 0.2908,  
0.3468

 8.1837, 0.2381,  
0.3918


375.8936, 0.2920,


 4.2127, 0.2197,


0.3458


0.4084


441.9472, 0.2931,  
0.3449


 1.7932, 0.1892,  
0.4366


 0.4830, 0.0000,  
0.6635


 86.1174, 0.2788,  
0.3568


 86.1174, 0.2788,  
0.3568

 83.0573, 0.2701,  
0.3671


 89.7588, 0.2886,  
0.3473

 80.5361, 0.2628,  
0.3780

 94.0002, 0.2992,  
0.3385

 78.5221, 0.2572,  
0.3894

 98.8727, 0.3103,  
0.3306

 76.9761, 0.2536,  
0.4011

99.9932, 0.3127,  
0.3290

■ 75.8528, 0.2519,  
0.4129

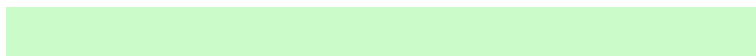
■ 75.0976, 0.2523,  
0.4246

■ 74.6978, 0.2538,  
0.4336

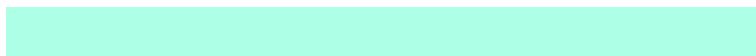
# Harmonies

## Analogous

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



86.1174, 0.3112, 0.3825



86.1174, 0.2788, 0.3568



86.1174, 0.2562, 0.3235

# Triad

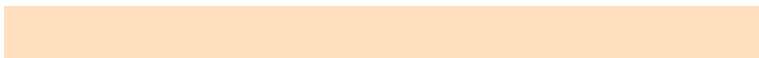
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



86.1174, 0.2788, 0.3568



86.1174, 0.2786, 0.2728



86.1174, 0.3817, 0.3582

# Complementary

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



86.1174, 0.2788, 0.3568



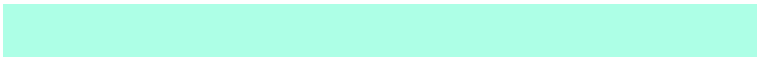
55.2556, 0.3643, 0.3031

# 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.



86.1174, 0.3724, 0.3299



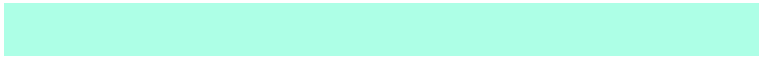
86.1174, 0.2788, 0.3568



86.1174, 0.3112, 0.2824

# Square

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



86.1174, 0.2788, 0.3568



86.1174, 0.2561, 0.2764



86.1174, 0.3460, 0.3029

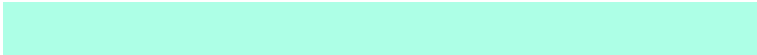


86.1174, 0.3714, 0.3810



# Rectangle

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



86.1174, 0.2788, 0.3568



86.1174, 0.2491, 0.3029



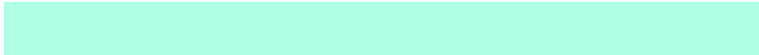
86.1174, 0.3460, 0.3029



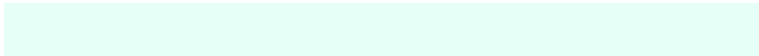
86.1174, 0.3808, 0.3490

# Sweetspot

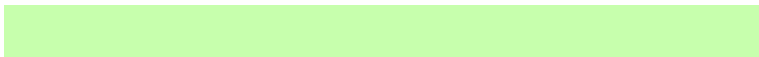
The Sweet Spot groups the original color and five complimentary colors.



86.1209, 0.2788, 0.3568



94.9898, 0.3015, 0.3368



86.6781, 0.3241, 0.4201



20.1921, 0.3000, 0.3379



0.0000, 0.0000, 0.0000

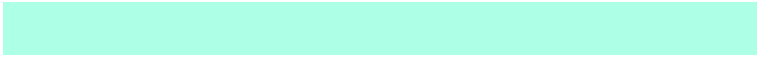


21.4041, 0.3127, 0.3290



# Same Dimension

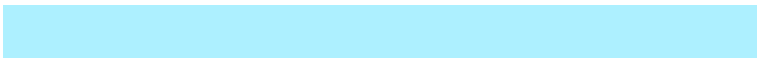
The Same Dimension uses a secret algorithm to generate beautiful new colors.



86.1209, 0.2788, 0.3568



83.9621, 0.2727, 0.3638



78.4169, 0.2646, 0.3123



20.3816, 0.3021, 0.3363



39.0628, 0.2533, 0.4317



3.8229, 0.2496, 0.4185



# Inverse Universe

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



55.2556, 0.3643, 0.3031



48.4257, 0.3803, 0.2975



60.2862, 0.3822, 0.3449



18.0782, 0.3246, 0.3218



11.4174, 0.5751, 0.2942

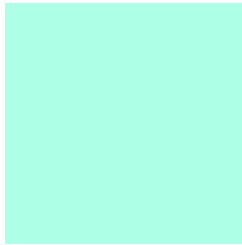


1.1301, 0.5431, 0.2766



# Previews

## White Background



This preview shows how the Yxy color 86.1174, 0.2788, 0.3568 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

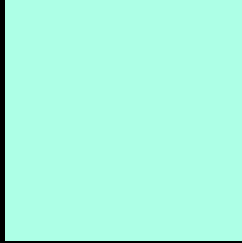
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 86.1174, 0.2788, 0.3568 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 86.1174, 0.2788, 0.3568**

## **Background**



This preview shows how black text looks on a background with the Yxy color 86.1174, 0.2788, 0.3568.

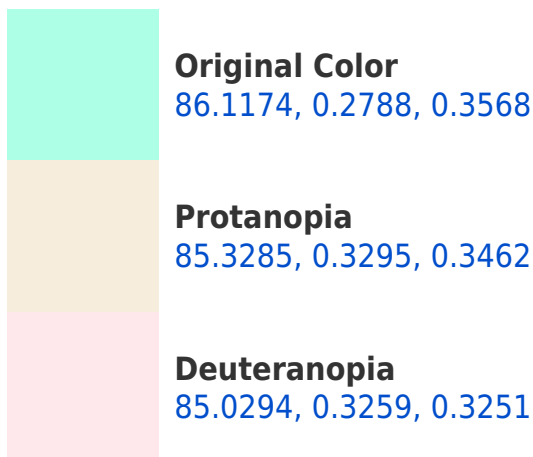


This preview shows how white text looks on a background with the Yxy color 86.1174, 0.2788, 0.3568.

# 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

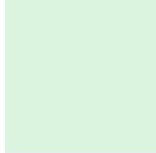
85.7703, 0.2860, 0.3175

# Trichromacy



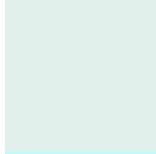
## Original Color

86.1174, 0.2788, 0.3568



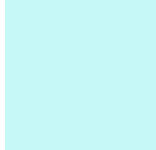
## Protanomaly

85.1433, 0.3085, 0.3501



## Deuteranomaly

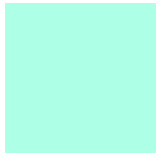
84.2682, 0.3066, 0.3352



## Tritanomaly

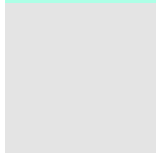
85.6589, 0.2830, 0.3310

# Monochromacy



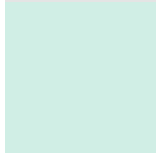
## Original Color

86.1174, 0.2788, 0.3568



## Achromatopsia

77.5822, 0.3127, 0.3290



## Achromatomaly

80.2161, 0.2987, 0.3387

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 86.1174, 0.2788, 0.3568 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(173, 255, 230)` looks like.

```
.text, #text, p{  
    color:rgb(173, 255, 230)  
}
```

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(173, 255, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(173, 255, 230) }
```

## Border

The CSS property to change the border of an element to Yxy 86.1174, 0.2788, 0.3568 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(173, 255, 230) }
```

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

```
.border{ border-color:rgb(173, 255, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(173, 255, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(173, 255, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(173, 255, 230);  
box-shadow:4px 4px 4px 4px rgb(173, 255,  
230) }
```



# Background

The CSS property to change the background color of an element to Yxy 86.1174, 0.2788, 0.3568 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(173, 255, 230) }
```

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

```
.background{ background-color: rgb(173,  
255, 230) }
```

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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