

# Converting Colors

$Y_{xy}(85.3624, 0.2710, 0.3506)$

Have a look what the booklet for  
Yxy(85.3624, 0.2710, 0.3506)  
contains.

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# Color

**Yxy(85.3627, 0.2708, 0.3502)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A3FFEC
RGB	163, 255, 236
RGB Percent	64%, 100%, 93%
CMY	0.3608, 0.0000, 0.0744
CMYK	0.36, 0.00, 0.07, 0.00
HSL	168°, 100%, 82%
HSV	168°, 36%, 100%
XYZ	66.0086, 85.3627, 92.3828
YIQ	225.3260, -48.7330, -25.4130

# Conversions

## Conversions Part 2

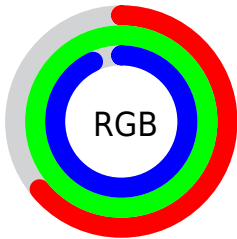
<b>Format</b>	<b>Color</b>
<b>RYB</b>	163, 214, 255
Decimal	10747884
CIELab	94.04, -31.52, 0.38
CIELCh	94, 31.526, 179.303
Yxy	85.3627, 0.2708, 0.3502
Android (android.graphics.Color)	4288937964 (0xFFA3FFEC)
YUV	225.3260, 5.2623, -54.6599
Hunter-Lab	92.3919, -34.1581, 5.3902

# Details

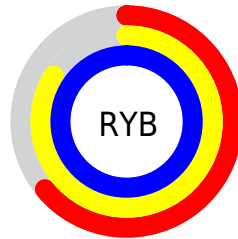
The Yxy color **85.3627, 0.2708, 0.3502** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **50.8307, 0.3820, 0.3093**, and the grayscale version is **75.5324, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.1122, 0.2923, 0.3289**, and **46.8093, 0.2619, 0.3554** is the 20% darker color. If you saturate the color by 10%, you get **82.6381, 0.2617, 0.3571**, and if you desaturate by 10%, it is **88.6436, 0.2813, 0.3437**.

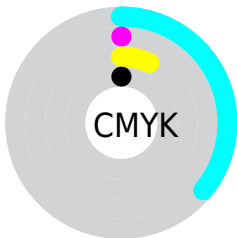
# Distribution



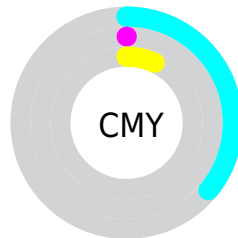
- Red (64%)
- Green (100%)
- Blue (93%)



- Red (64%)
- Yellow (84%)
- Blue (100%)



- Cyan (36%)
- Magenta (0%)
- Yellow (7%)
- Black (0%)




- Cyan (36%)
- Magenta (0%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 85.3627, 0.2708, 0.3502 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 85.3627, 0.2708, 0.3502 by changing the saturation by 10% instead.




 85.3627, 0.2708,  
0.3502

 85.3627, 0.2708,  
0.3502


512.8275, 0.2896,  
0.3407

 64.1411, 0.2667,  
0.3523


 140.8798, 0.2772,  
0.3470

 46.7650, 0.2616,  
0.3549


 175.9441, 0.2797,  
0.3457

 32.8499, 0.2553,  
0.3581


216.3915, 0.2819,  
0.3446

 22.0115, 0.2473,  
0.3622

262.6062, 0.2838,  
0.3436

 13.8653, 0.2366,  
0.3676

314.9728, 0.2855,  
0.3427

 8.0271, 0.2219,  
0.3751

373.8756, 0.2870,

 4.1123, 0.2004,

0.3420

439.6990, 0.2884,  
0.3413

0.3861

1.7366, 0.1648,  
0.4045

0.4472, 0.0000,  
0.4929

85.3627, 0.2708,  
0.3502

85.3627, 0.2708,  
0.3502

82.6381, 0.2617,  
0.3571

88.6436, 0.2813,  
0.3437

80.4299, 0.2542,  
0.3644

92.5040, 0.2928,  
0.3376


78.7041, 0.2486,  
0.3719

96.9741, 0.3050,  
0.3321

77.4193, 0.2449,  
0.3795

100.0000, 0.3127,  
0.3290

 76.5274, 0.2432,  
0.3872

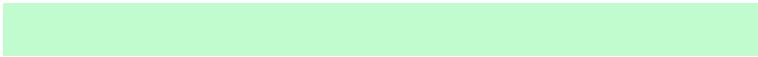
 75.9685, 0.2434,  
0.3947

 75.8054, 0.2438,  
0.3977

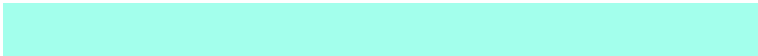
# Harmonies

## Analogous

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



85.3627, 0.3028, 0.3801



85.3627, 0.2708, 0.3502



85.3627, 0.2506, 0.3153

# Triad

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



85.3627, 0.2708, 0.3502



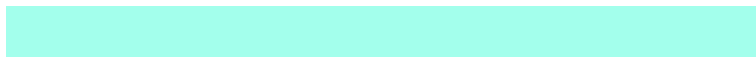
85.3627, 0.2843, 0.2717



85.3627, 0.3839, 0.3655

# Complementary

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



85.3627, 0.2708, 0.3502



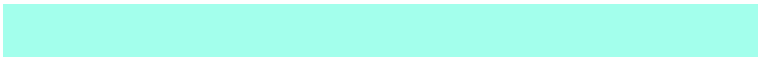
50.8307, 0.3820, 0.3093

# 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.



85.3627, 0.3790, 0.3367



85.3627, 0.2708, 0.3502



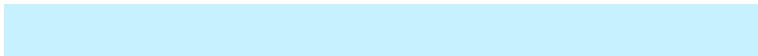
85.3627, 0.3196, 0.2847

# Square

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



85.3627, 0.2708, 0.3502



85.3627, 0.2580, 0.2721



85.3627, 0.3549, 0.3079

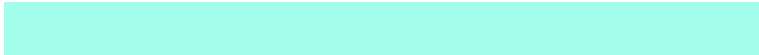


85.3627, 0.3687, 0.3870



# Rectangle

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



85.3627, 0.2708, 0.3502



85.3627, 0.2457, 0.2953



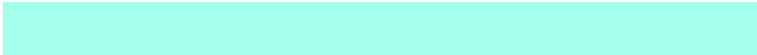
85.3627, 0.3549, 0.3079



85.3627, 0.3846, 0.3563

# Sweetspot

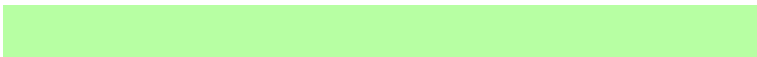
The Sweet Spot groups the original color and five complimentary colors.



85.3651, 0.2708, 0.3502



94.6960, 0.2989, 0.3348



84.2236, 0.3194, 0.4347



20.1402, 0.2973, 0.3355



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

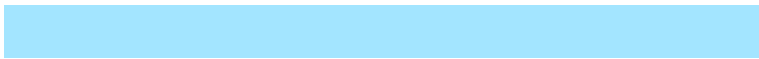
The Same Dimension uses a secret algorithm to generate beautiful new colors.



85.3651, 0.2708, 0.3502



83.4206, 0.2643, 0.3550



71.0086, 0.2578, 0.2993



20.4135, 0.3008, 0.3339



39.6323, 0.2435, 0.3964



3.8743, 0.2411, 0.3878



# Inverse Universe

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



50.8307, 0.3820, 0.3093



44.4432, 0.4021, 0.3056



60.3287, 0.3904, 0.3565



18.0483, 0.3262, 0.3241



11.2581, 0.6064, 0.3114

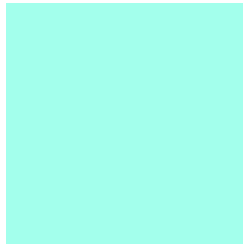


1.1110, 0.5763, 0.2948



# Previews

## White Background



This preview shows how the Yxy color 85.3627, 0.2708, 0.3502 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

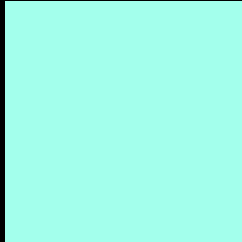
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 85.3627, 0.2708, 0.3502 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

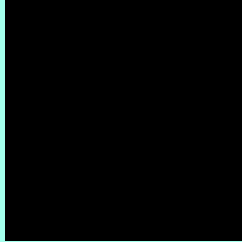
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

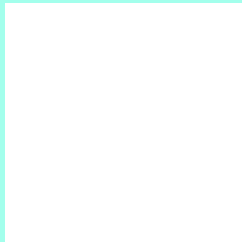
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 85.3627, 0.2708, 0.3502**

## **Background**



This preview shows how black text looks on a background with the Yxy color 85.3627, 0.2708, 0.3502.

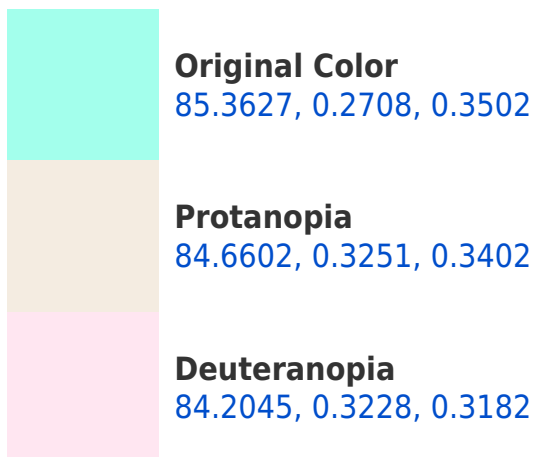


This preview shows how white text looks on a background with the Yxy color 85.3627, 0.2708, 0.3502.

# 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

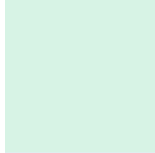
84.9005, 0.2825, 0.3174

# Trichromacy



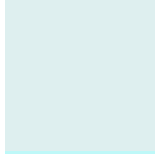
## Original Color

85.3627, 0.2708, 0.3502



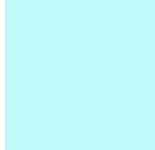
## Protanomaly

84.2054, 0.3031, 0.3438



## Deuteranomaly

83.4946, 0.3017, 0.3290



## Tritanomaly

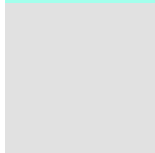
84.8593, 0.2781, 0.3289

# Monochromacy



## Original Color

85.3627, 0.2708, 0.3502



## Achromatopsia

75.2942, 0.3127, 0.3290



## Achromatomaly

78.2046, 0.2948, 0.3366

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 85.3627, 0.2708, 0.3502 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(163, 255, 236)` looks like.

```
.text, #text, p{  
    color:rgb(163, 255, 236)  
}
```

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(163, 255, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 255, 236) }
```

## Border

The CSS property to change the border of an element to Yxy 85.3627, 0.2708, 0.3502 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(163, 255, 236) }
```

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

```
.border{ border-color:rgb(163, 255, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 255, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 255, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 255, 236);  
box-shadow:4px 4px 4px 4px rgb(163, 255,  
236) }
```



# Background

The CSS property to change the background color of an element to Yxy 85.3627, 0.2708, 0.3502 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 255, 236) }
```

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

```
.background{ background-color: rgb(163,  
255, 236) }
```

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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