

# Converting Colors

$Y_{xy}(100.0000, 0.2881, 0.4017)$

Have a look what the booklet for  
Yxy(100.0000, 0.2881, 0.4017)  
contains.

<b>Yxy(84.7692, 0.2868, 0.3793)</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(84.7692, 0.2868, 0.3793)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AAFFD3
RGB	170, 255, 211
RGB Percent	67%, 100%, 83%
CMY	0.3333, 0.0000, 0.1725
CMYK	0.33, 0.00, 0.17, 0.00
HSL	149°, 100%, 83%
HSV	149°, 33%, 100%
XYZ	64.0965, 84.7692, 74.6228
YIQ	224.5690, -36.5360, -31.7040

# Conversions

## Conversions Part 2

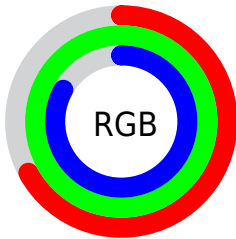
<b>Format</b>	<b>Color</b>
<b>RYB</b>	170, 227, 255
Decimal	11206611
CIELab	93.78, -34.74, 12.95
CIELCh	94, 37.074, 159.557
Yxy	84.7692, 0.2868, 0.3793
Android (android.graphics.Color)	4289396691 (0xFFAAFFD3)
YUV	224.5690, -6.6895, -47.8570
Hunter-Lab	92.0702, -36.8565, 16.3946

# Details

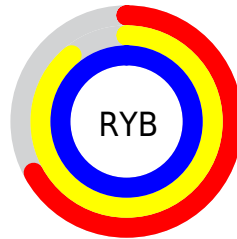
The Yxy color **84.7692, 0.2868, 0.3793** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **54.8629, 0.3506, 0.2839**, and the grayscale version is **75.0387, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.0709, 0.2958, 0.3290**, and **46.4333, 0.2810, 0.3923** is the 20% darker color. If you saturate the color by 10%, you get **81.5634, 0.2804, 0.3976**, and if you desaturate by 10%, it is **88.5820, 0.2940, 0.3624**.

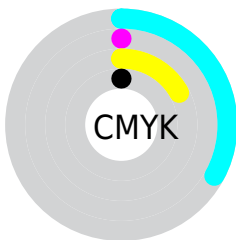
# Distribution



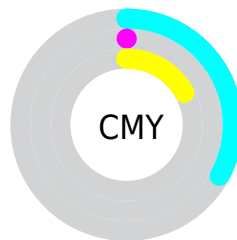
- Red (67%)
- Green (100%)
- Blue (83%)



- Red (67%)
- Yellow (89%)
- Blue (100%)



- Cyan (33%)
- Magenta (0%)
- Yellow (17%)
- Black (0%)




- Cyan (33%)
- Magenta (0%)
- Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 84.7692, 0.2868, 0.3793 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 84.7692, 0.2868, 0.3793 by changing the saturation by 10% instead.




 84.7692, 0.2868,  
0.3793

 84.7692, 0.2868,  
0.3793

510.8641, 0.2989,  
0.3558

 63.6507, 0.2840,  
0.3847

 140.0507, 0.2910,  
0.3711

 46.3678, 0.2806,  
0.3914


174.9824, 0.2926,  
0.3679

 32.5362, 0.2762,  
0.4000


215.2874, 0.2940,  
0.3652

 21.7714, 0.2705,  
0.4113

261.3499, 0.2953,  
0.3628

 13.6890, 0.2627,  
0.4267

313.5545, 0.2963,  
0.3607

 7.9047, 0.2513,  
0.4492

372.2854, 0.2973,

 4.0340, 0.2336,

0.3589

0.4847

437.9271, 0.2981,  
0.3573

1.6926, 0.1974,  
0.5548

0.4189, 0.0000,  
1.0000

84.7692, 0.2868,  
0.3793

84.7692, 0.2868,  
0.3793

81.5634, 0.2804,  
0.3976

88.5820, 0.2940,  
0.3624

78.9290, 0.2753,  
0.4172

93.0302, 0.3019,  
0.3470

76.8302, 0.2717,  
0.4375

98.1430, 0.3100,  
0.3332

75.2259, 0.2700,  
0.4581

100.0000, 0.3127,  
0.3290

■ 74.0686, 0.2703,  
0.4784

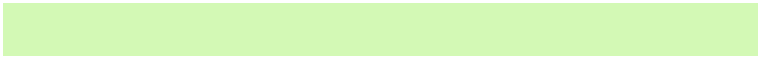
■ 73.3011, 0.2726,  
0.4978

■ 72.9515, 0.2750,  
0.5100

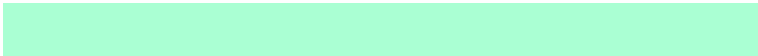
# Harmonies

## Analogous

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



84.7692, 0.3285, 0.4030



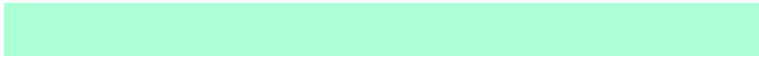
84.7692, 0.2868, 0.3793



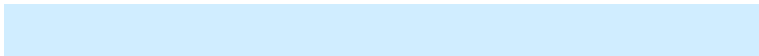
84.7692, 0.2535, 0.3395

# Triad

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



84.7692, 0.2868, 0.3793



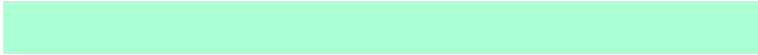
84.7692, 0.2575, 0.2606



84.7692, 0.3958, 0.3492

# Complementary

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



84.7692, 0.2868, 0.3793



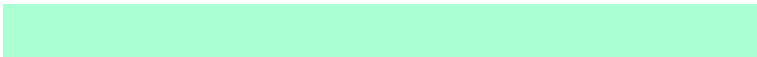
54.8629, 0.3506, 0.2839

# 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.



84.7692, 0.3743, 0.3150



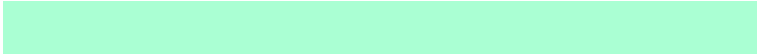
84.7692, 0.2868, 0.3793



84.7692, 0.2925, 0.2659

# Square

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



84.7692, 0.2868, 0.3793



84.7692, 0.2377, 0.2718



84.7692, 0.3355, 0.2854

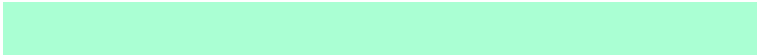


84.7692, 0.3929, 0.3812



# Rectangle

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



84.7692, 0.2868, 0.3793



84.7692, 0.2400, 0.3120



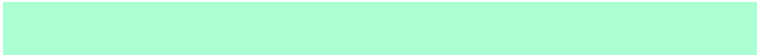
84.7692, 0.3355, 0.2854



84.7692, 0.3912, 0.3377

# Sweetspot

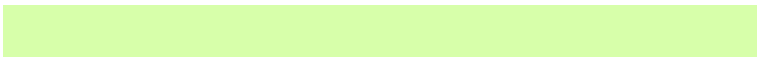
The Sweet Spot groups the original color and five complimentary colors.



84.7700, 0.2868, 0.3793



94.6595, 0.3046, 0.3423



88.9197, 0.3363, 0.4204



20.1121, 0.3034, 0.3442



0.0000, 0.0000, 0.0000

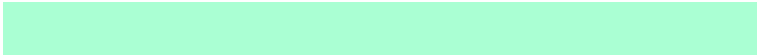


21.4041, 0.3127, 0.3290

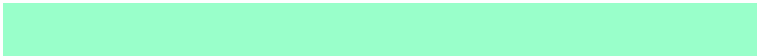


# Same Dimension

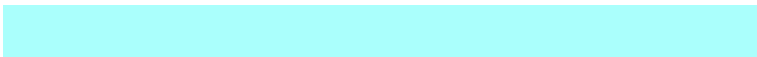
The Same Dimension uses a secret algorithm to generate beautiful new colors.



84.7700, 0.2868, 0.3793



82.5672, 0.2824, 0.3914



87.1047, 0.2665, 0.3320



20.3142, 0.3050, 0.3416



38.1486, 0.2742, 0.5070



3.7364, 0.2683, 0.4857



# Inverse Universe

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



54.8629, 0.3506, 0.2839



48.4878, 0.3612, 0.2747



53.0195, 0.3885, 0.3262



18.1440, 0.3213, 0.3168



12.0088, 0.4890, 0.2468

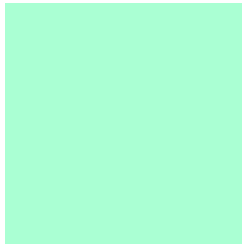


1.1913, 0.4646, 0.2333



# Previews

## White Background



This preview shows how the Yxy color 84.7692, 0.2868, 0.3793 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

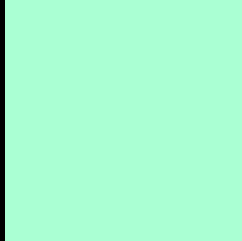
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 84.7692, 0.2868, 0.3793 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

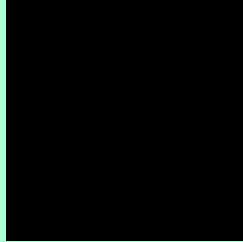
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

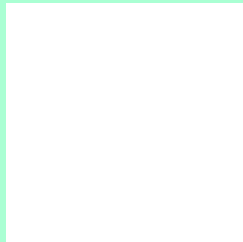
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 84.7692, 0.2868, 0.3793**

## **Background**



This preview shows how black text looks on a background with the Yxy color 84.7692, 0.2868, 0.3793.

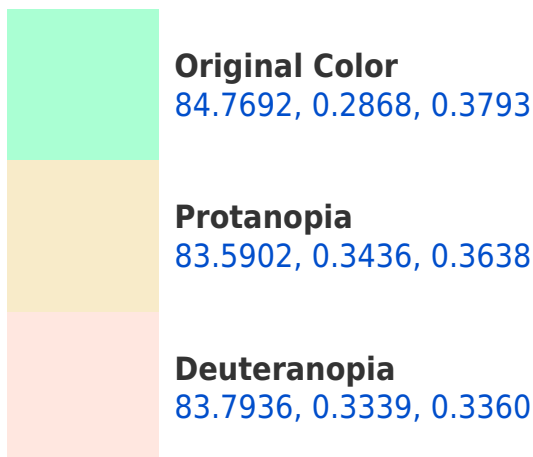


This preview shows how white text looks on a background with the Yxy color 84.7692, 0.2868, 0.3793.

# 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

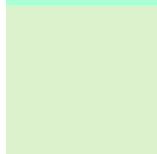
84.4430, 0.2831, 0.3164

# Trichromacy



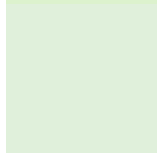
## Original Color

84.7692, 0.2868, 0.3793



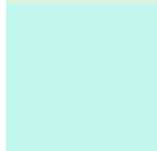
## Protanomaly

83.1277, 0.3207, 0.3688



## Deuteranomaly

83.2819, 0.3150, 0.3512



## Tritanomaly

84.0910, 0.2844, 0.3376

# Monochromacy



## Original Color

84.7692, 0.2868, 0.3793



## Achromatopsia

75.2942, 0.3127, 0.3290



## Achromatomaly

78.1373, 0.3020, 0.3466

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 84.7692, 0.2868, 0.3793 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(170, 255, 211)` looks like.

```
.text, #text, p{  
    color:rgb(170, 255, 211)  
}
```

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(170, 255, 211) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 255, 211) }
```

## Border

The CSS property to change the border of an element to Yxy 84.7692, 0.2868, 0.3793 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(170, 255, 211) }
```

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

```
.border{ border-color:rgb(170, 255, 211) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 255, 211)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 255, 211); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 255, 211);  
box-shadow:4px 4px 4px 4px rgb(170, 255,  
211) }
```



# Background

The CSS property to change the background color of an element to Yxy 84.7692, 0.2868, 0.3793 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 255, 211) }
```

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

```
.background{ background-color: rgb(170,  
255, 211) }
```

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