

# Converting Colors

$Yxy(90.1873, 0.2947, 0.3533)$

Have a look what the booklet for  
Yxy(90.1873, 0.2947, 0.3533)  
contains.

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# Color

**Yxy(90.1836, 0.2948, 0.3534)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CCFFE8
RGB	204, 255, 232
RGB Percent	80%, 100%, 91%
CMY	0.1999, 0.0000, 0.0902
CMYK	0.20, 0.00, 0.09, 0.00
HSL	153°, 100%, 90%
HSV	153°, 20%, 100%
XYZ	75.2296, 90.1836, 89.7753
YIQ	237.1290, -23.0130, -17.9650

# Conversions

## Conversions Part 2

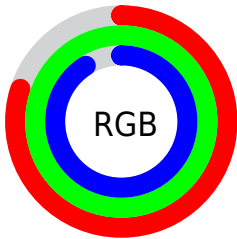
<b>Format</b>	<b>Color</b>
<b>RYB</b>	204, 237, 255
Decimal	13434856
CIELab	96.07, -20.56, 5.69
CIELCh	96, 21.336, 164.538
Yxy	90.1836, 0.2948, 0.3534
Android (android.graphics.Color)	4291624936 (0xFFCCFFE8)
YUV	237.1290, -2.5286, -29.0541
Hunter-Lab	94.9650, -24.7844, 10.4257

# Details

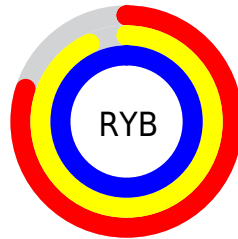
The Yxy color **90.1836, 0.2948, 0.3534** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **70.0036, 0.3351, 0.3059**, and the grayscale version is **84.8290, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **49.9123, 0.2910, 0.3593** is the 20% darker color. If you saturate the color by 10%, you get **86.2393, 0.2865, 0.3676**, and if you desaturate by 10%, it is **94.7651, 0.3036, 0.3405**.

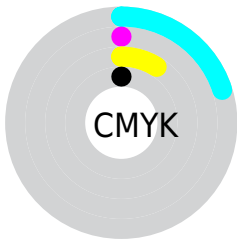
# Distribution



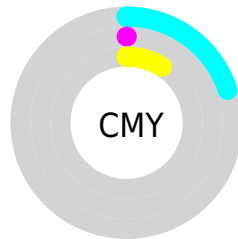
- Red (80%)
- Green (100%)
- Blue (91%)



- Red (80%)
- Yellow (93%)
- Blue (100%)



- Cyan (20%)
- Magenta (0%)
- Yellow (9%)
- Black (0%)




- Cyan (20%)
- Magenta (0%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 90.1836, 0.2948, 0.3534 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 90.1836, 0.2948, 0.3534 by changing the saturation by 10% instead.




 90.1836, 0.2948,  
0.3534

 90.1836, 0.2948,  
0.3534


528.6279, 0.3029,  
0.3423

 68.1329, 0.2930,  
0.3559


147.5934, 0.2976,  
0.3496

 50.0059, 0.2908,  
0.3589


183.7213, 0.2986,  
0.3481

 35.4181, 0.2881,  
0.3627


225.3104, 0.2996,  
0.3468

 23.9851, 0.2845,  
0.3676

272.7452, 0.3004,  
0.3457

 15.3226, 0.2798,  
0.3743

326.4099, 0.3011,  
0.3447

 9.0461, 0.2733,  
0.3836

386.6890, 0.3018,

 4.7713, 0.2634,

0.3438

0.3977

453.9669, 0.3024,  
0.3430

■ 2.1137, 0.2471,  
0.4215

■ 0.6723, 0.1198,  
0.5879

■ 90.1836, 0.2948,  
0.3534

■ 90.1836, 0.2948,  
0.3534

■ 86.2393, 0.2865,  
0.3676

■ 94.7651, 0.3036,  
0.3405

■ 82.8961, 0.2791,  
0.3830

100.0000, 0.3127,  
0.3290

■ 80.1242, 0.2729,  
0.3996

■ 77.8888, 0.2682,  
0.4170

■ 76.1508, 0.2653,  
0.4348

■ 74.8659, 0.2645,  
0.4528

■ 73.9811, 0.2657,  
0.4703

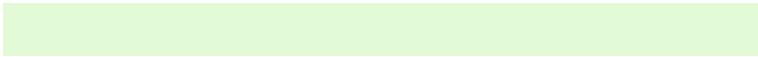
■ 73.4106, 0.2686,  
0.4871

■ 73.4102, 0.2686,  
0.4871

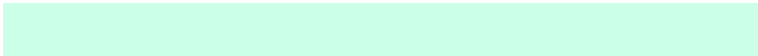
# Harmonies

## Analogous

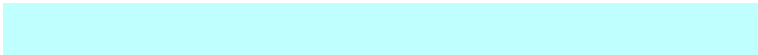
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



90.1836, 0.3184, 0.3681



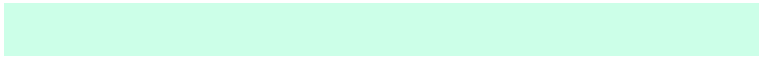
90.1836, 0.2948, 0.3534



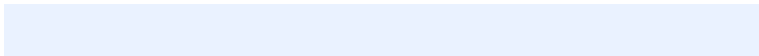
90.1836, 0.2765, 0.3316

# Triad

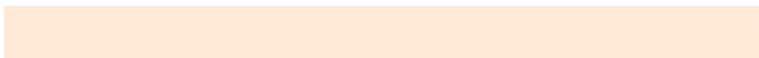
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



90.1836, 0.2948, 0.3534



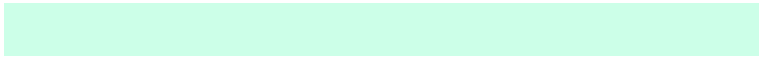
90.1836, 0.2840, 0.2891



90.1836, 0.3599, 0.3451

# Complementary

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



90.1836, 0.2948, 0.3534



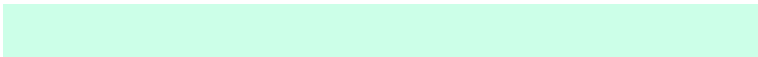
70.0036, 0.3351, 0.3059

# 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.



90.1836, 0.3501, 0.3248



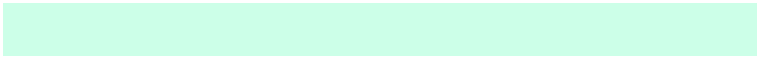
90.1836, 0.2948, 0.3534



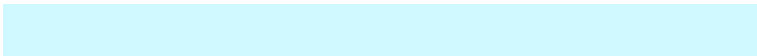
90.1836, 0.3056, 0.2934

# Square

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



90.1836, 0.2948, 0.3534



90.1836, 0.2704, 0.2948



90.1836, 0.3299, 0.3063

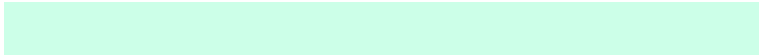


90.1836, 0.3565, 0.3621



# Rectangle

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



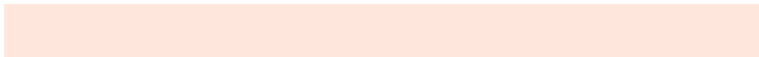
90.1836, 0.2948, 0.3534



90.1836, 0.2694, 0.3168



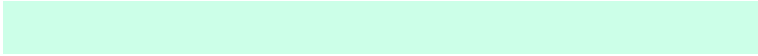
90.1836, 0.3299, 0.3063



90.1836, 0.3581, 0.3384

# Sweetspot

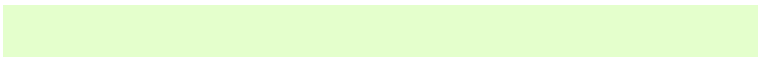
The Sweet Spot groups the original color and five complimentary colors.



90.1858, 0.2948, 0.3534



96.7759, 0.3072, 0.3358



92.3438, 0.3251, 0.3820



20.6420, 0.3066, 0.3365



0.0000, 0.0000, 0.0000

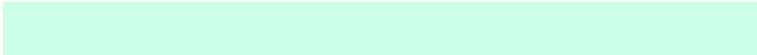


21.4041, 0.3127, 0.3290

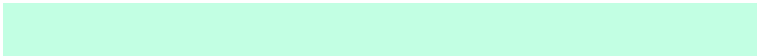


# Same Dimension

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



90.1858, 0.2948, 0.3534



88.5296, 0.2914, 0.3589



90.5009, 0.2826, 0.3271



20.3349, 0.3041, 0.3399



38.3890, 0.2679, 0.4844



3.7598, 0.2625, 0.4651



# Inverse Universe

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



70.0036, 0.3351, 0.3059



64.9978, 0.3408, 0.3010



69.6287, 0.3523, 0.3309



18.1234, 0.3223, 0.3183



11.7861, 0.5170, 0.2622

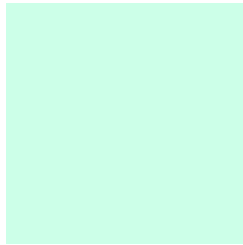


1.1692, 0.4891, 0.2468



# Previews

## White Background



This preview shows how the Yxy color 90.1836, 0.2948, 0.3534 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

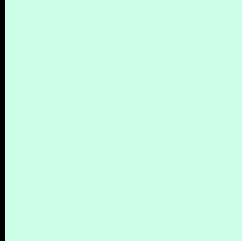
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 90.1836, 0.2948, 0.3534 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

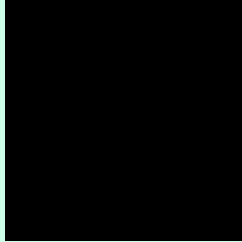
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

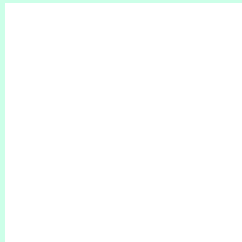
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 90.1836, 0.2948, 0.3534**

## **Background**



This preview shows how black text looks on a background with the Yxy color 90.1836, 0.2948, 0.3534.

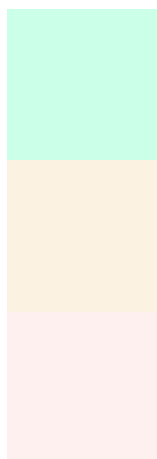


This preview shows how white text looks on a background with the Yxy color 90.1836, 0.2948, 0.3534.

# 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

90.1836, 0.2948, 0.3534

### Protanopia

89.6360, 0.3299, 0.3459

### Deuteranopia

89.8714, 0.3226, 0.3290



## Tritanopia

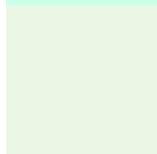
89.9545, 0.2975, 0.3199

# Trichromacy



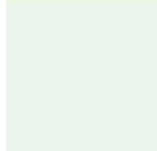
## Original Color

90.1836, 0.2948, 0.3534



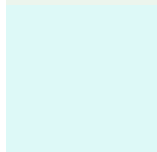
## Protanomaly

89.7851, 0.3163, 0.3484



## Deuteranomaly

89.2521, 0.3117, 0.3371



## Tritanomaly

89.8389, 0.2965, 0.3310

# Monochromacy



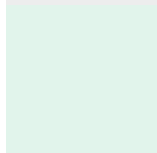
## Original Color

90.1836, 0.2948, 0.3534



## Achromatopsia

84.6873, 0.3127, 0.3290



## Achromatomaly

86.7071, 0.3059, 0.3383

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 90.1836, 0.2948, 0.3534 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(204, 255, 232)` looks like.

```
.text, #text, p{  
    color:rgb(204, 255, 232)  
}
```

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(204, 255, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 255, 232) }
```

## Border

The CSS property to change the border of an element to Yxy 90.1836, 0.2948, 0.3534 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(204, 255, 232) }
```

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

```
.border{ border-color:rgb(204, 255, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 255, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 255, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 255, 232);  
box-shadow:4px 4px 4px 4px rgb(204, 255,  
232) }
```



# Background

The CSS property to change the background color of an element to Yxy 90.1836, 0.2948, 0.3534 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 255, 232) }
```

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

```
.background{ background-color: rgb(204,  
255, 232) }
```

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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