

# Converting Colors

$Y_{xy}(70.1223, 0.2907, 0.2960)$

Have a look what the booklet for  
Yxy(70.1223, 0.2907, 0.2960)  
contains.

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# Color

**Yxy(69.9733, 0.2907, 0.2957)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D5D8F7
RGB	213, 216, 247
RGB Percent	84%, 85%, 97%
CMY	0.1646, 0.1530, 0.0314
CMYK	0.14, 0.13, 0.00, 0.03
HSL	235°, 68%, 90%
HSV	235°, 14%, 97%
XYZ	68.7901, 69.9733, 97.8727
YIQ	218.6370, -11.7390, 9.0050

# Conversions

## Conversions Part 2

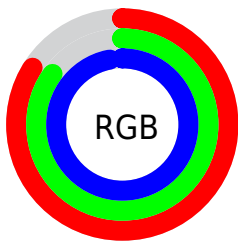
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">213, 216, 247</a>
Decimal	<a href="#">14014711</a>
CIELab	<a href="#">86.98, 5.02, -15.46</a>
CIELCh	<a href="#">87, 16.255, 287.994</a>
Yxy	<a href="#">69.9733, 0.2907, 0.2957</a>
Android (android.graphics.Color)	<a href="#">4292204791</a> ( <a href="#">0xFFD5D8F7</a> )
YUV	<a href="#">218.6370, 13.9830, -4.9436</a>
Hunter-Lab	<a href="#">83.6500, 0.4030, -10.8158</a>

# Details

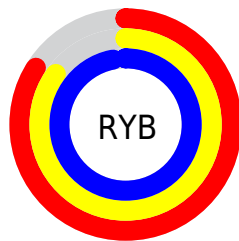
The Yxy color **69.9733, 0.2907, 0.2957** is a light color, and the websafe version is hex **CCCCFF**. A complement of this color would be **89.2974, 0.3338, 0.3603**, and the grayscale version is **70.4857, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **36.5204, 0.2850, 0.2871** is the 20% darker color. If you saturate the color by 10%, you get **55.7907, 0.2725, 0.2678**, and if you desaturate by 10%, it is **86.3086, 0.3071, 0.3205**.

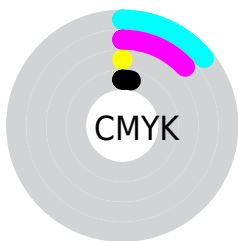
# Distribution



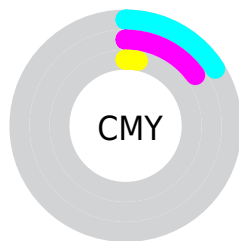
- Red (84%)
- Green (85%)
- Blue (97%)



- Red (84%)
- Yellow (85%)
- Blue (97%)



- Cyan (14%)
- Magenta (13%)
- Yellow (0%)
- Black (3%)



- Cyan (16%)
- Magenta (15%)
- Yellow (3%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.9733, 0.2907, 0.2957 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 69.9733, 0.2907, 0.2957 by changing the saturation by 10% instead.



■ 69.9733, 0.2907,  
0.2957

■ 69.9733, 0.2907,  
0.2957

460.4563, 0.3010,  
0.3110

■ 51.5048, 0.2883,  
0.2922

119.1707, 0.2943,  
0.3010

■ 36.6105, 0.2854,  
0.2880

150.6683, 0.2957,  
0.3030

■ 24.9061, 0.2817,  
0.2826

187.2778, 0.2969,  
0.3048

■ 16.0071, 0.2768,  
0.2757

229.3835, 0.2979,  
0.3064

■ 9.5292, 0.2702,  
0.2663

277.3697, 0.2988,  
0.3077

■ 5.0879, 0.2606,  
0.2530

331.6210, 0.2996,

■ 2.2989, 0.2456,

0.3089

0.2328

392.5217, 0.3003,  
0.3100

0.7731, 0.2196,  
0.1979

0.0000, 0.0000,  
0.0000

69.9733, 0.2907,  
0.2957

69.9733, 0.2907,  
0.2957

55.7907, 0.2725,  
0.2678

86.3086, 0.3071,  
0.3205

43.6624, 0.2528,  
0.2370

99.4952, 0.3173,  
0.3367

33.4958, 0.2321,  
0.2042

25.1874, 0.2114,  
0.1707

■ 18.6244, 0.1918,  
0.1383

■ 13.6814, 0.1750,  
0.1094

■ 10.2165, 0.1621,  
0.0863

■ 8.0623, 0.1541,  
0.0705

■ 7.2734, 0.1513,  
0.0645

# Harmonies

## Analogous

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



69.9733, 0.2784, 0.2997



69.9733, 0.2907, 0.2957



69.9733, 0.3092, 0.3002

# Triad

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



69.9733, 0.2907, 0.2957



69.9733, 0.3520, 0.3444



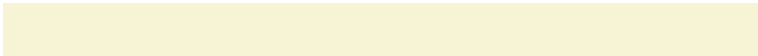
69.9733, 0.2958, 0.3473

# Complementary

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



69.9733, 0.2907, 0.2957



89.2974, 0.3338, 0.3603

# 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.



69.9733, 0.3152, 0.3603



69.9733, 0.2907, 0.2957



69.9733, 0.3480, 0.3579

# Square

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



69.9733, 0.2907, 0.2957



69.9733, 0.3451, 0.3276



69.9733, 0.3344, 0.3640



69.9733, 0.2813, 0.3291



# Rectangle

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



69.9733, 0.2907, 0.2957



69.9733, 0.3227, 0.3072



69.9733, 0.3344, 0.3640



69.9733, 0.3020, 0.3524

# Sweetspot

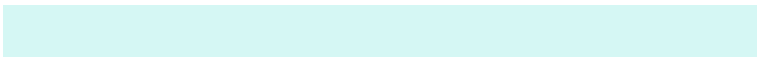
The Sweet Spot groups the original color and five complimentary colors.



69.9762, 0.2907, 0.2957



92.3205, 0.3067, 0.3199



87.1775, 0.2936, 0.3325



19.4605, 0.3055, 0.3181



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.



69.9762, 0.2907, 0.2957



69.9898, 0.2849, 0.2869



70.5867, 0.2999, 0.2934



16.1594, 0.2979, 0.3067



3.9302, 0.1516, 0.0657



0.4234, 0.1552, 0.0786



# Inverse Universe

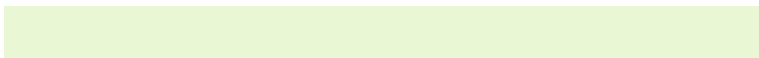
The Inverse Universe completely reimagines the original color for something new.



72.3343, 0.3360, 0.3260



73.1011, 0.3427, 0.3252



88.7179, 0.3243, 0.3641



16.5060, 0.3280, 0.3270



10.4961, 0.6304, 0.3247

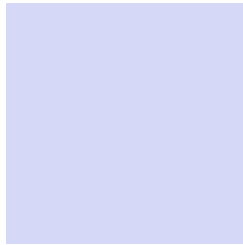


0.9304, 0.6092, 0.3130



# Previews

## White Background



This preview shows how the Yxy color 69.9733, 0.2907, 0.2957 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

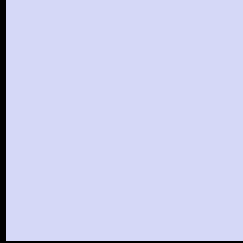
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.9733, 0.2907, 0.2957 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

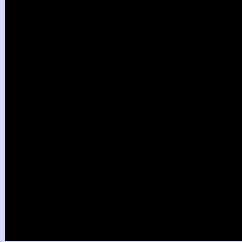
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 69.9733, 0.2907, 0.2957**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.9733, 0.2907, 0.2957.

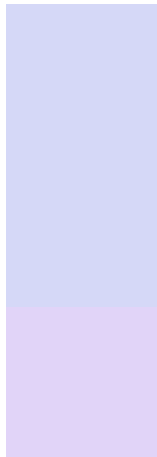


This preview shows how white text looks on a background with the Yxy color 69.9733, 0.2907, 0.2957.

# 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

69.9733, 0.2907, 0.2957

### Protanopia

69.9733, 0.2907, 0.2957

### Deuteranopia

69.8718, 0.2982, 0.2912



## Tritanopia

69.9898, 0.2968, 0.3104

# Trichromacy



## Original Color

69.9733, 0.2907, 0.2957

## Protanomaly

69.9733, 0.2907, 0.2957

## Deuteranomaly

69.7380, 0.2954, 0.2920

## Tritanomaly

69.8548, 0.2950, 0.3051

# Monochromacy



## Original Color

69.9733, 0.2907, 0.2957

## Achromatopsia

70.8376, 0.3127, 0.3290

## Achromatomaly

70.5517, 0.3048, 0.3170

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.9733, 0.2907, 0.2957 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(213, 216, 247)` looks like.

```
.text, #text, p{  
    color:rgb(213, 216, 247)  
}
```

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(213, 216, 247) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(213, 216, 247) }
```

## Border

The CSS property to change the border of an element to Yxy 69.9733, 0.2907, 0.2957 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(213, 216, 247) }
```

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

```
.border{ border-color:rgb(213, 216, 247) }
```

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

Here you see how a box with a 4 pixel rgb(213, 216, 247) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(213, 216, 247); -webkit-box-  
shadow:4px 4px 4px 4px rgb(213, 216, 247);  
box-shadow:4px 4px 4px 4px rgb(213, 216,  
247) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.9733, 0.2907, 0.2957 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(213, 216, 247) }
```

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

```
.background{ background-color: rgb(213,  
216, 247) }
```

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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