

# Converting Colors

$Y_{xy}(70.2260, 0.3096, 0.3182)$

Have a look what the booklet for  
Yxy(70.2260, 0.3096, 0.3182)  
contains.

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# Color

**Yxy(69.9749, 0.3096, 0.3181)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DDD8E2
RGB	221, 216, 226
RGB Percent	87%, 85%, 89%
CMY	0.1334, 0.1529, 0.1136
CMYK	0.02, 0.04, 0.00, 0.11
HSL	270°, 15%, 87%
HSV	270°, 4%, 89%
XYZ	68.1051, 69.9749, 81.8977
YIQ	218.6350, -0.2300, 4.1700

# Conversions

## Conversions Part 2

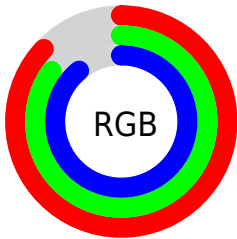
Format	Color
R <sub>Y</sub> B	221, 216, 226
Decimal	14538978
CIE Lab	86.98, 3.52, -4.33
CIE LCh	87, 5.580, 309.151
Yxy	69.9749, 0.3096, 0.3181
Android (android.graphics.Color)	4292729058 (0xFFDDD8E2)
YUV	218.6350, 3.6309, 2.0741
Hunter-Lab	83.6510, -1.0621, 0.5084

# Details

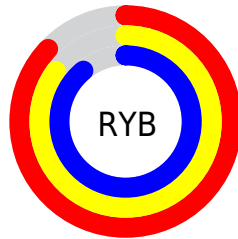
The Yxy color **69.9749, 0.3096, 0.3181** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **74.7536, 0.3157, 0.3399**, and the grayscale version is **70.5496, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **36.5370, 0.3087, 0.3148** is the 20% darker color. If you saturate the color by 10%, you get **57.4573, 0.3017, 0.2920**, and if you desaturate by 10%, it is **84.2125, 0.3163, 0.3420**.

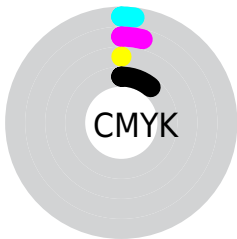
# Distribution



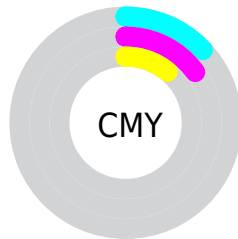
- Red (87%)
- Green (85%)
- Blue (89%)



- Red (87%)
- Yellow (85%)
- Blue (89%)



- Cyan (2%)
- Magenta (4%)
- Yellow (0%)
- Black (11%)



- Cyan (13%)
- Magenta (15%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.9749, 0.3096, 0.3181 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 69.9749, 0.3096, 0.3181 by changing the saturation by 10% instead.



■ 69.9749, 0.3096,  
0.3181

■ 69.9749, 0.3096,  
0.3181

460.4619, 0.3111,  
0.3232

■ 51.5061, 0.3093,  
0.3169

119.1730, 0.3101,  
0.3199

■ 36.6115, 0.3088,  
0.3155

150.6710, 0.3103,  
0.3205

■ 24.9069, 0.3083,  
0.3137

187.2809, 0.3105,  
0.3211

■ 16.0077, 0.3076,  
0.3113

229.3870, 0.3106,  
0.3216

■ 9.5296, 0.3066,  
0.3081

277.3738, 0.3108,  
0.3221

■ 5.0882, 0.3051,  
0.3033

331.6256, 0.3109,

■ 2.2991, 0.3027,

0.3225

0.2959

392.5268, 0.3110,  
0.3228

0.7732, 0.2985,  
0.2812

0.0000, 0.0000,  
0.0000

69.9749, 0.3096,  
0.3181

69.9749, 0.3096,  
0.3181

57.4573, 0.3017,  
0.2920

84.2125, 0.3163,  
0.3420

46.5836, 0.2925,  
0.2640

96.1969, 0.3225,  
0.3578

37.2853, 0.2820,  
0.2346

98.2733, 0.3297,  
0.3571

29.4857, 0.2703,  
0.2047

■ 23.1012, 0.2576,  
0.1754

■ 18.0399, 0.2444,  
0.1483

■ 14.1984, 0.2310,  
0.1247

■ 11.4576, 0.2182,  
0.1061

■ 9.6721, 0.2065,  
0.0932

# Harmonies

## Analogous

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



69.9749, 0.3036, 0.3175



69.9749, 0.3096, 0.3181



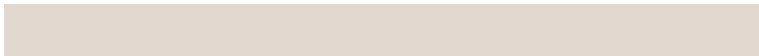
69.9749, 0.3165, 0.3215

# Triad

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



69.9749, 0.3096, 0.3181



69.9749, 0.3255, 0.3380



69.9749, 0.3031, 0.3310

# Complementary

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



69.9749, 0.3096, 0.3181



74.7536, 0.3157, 0.3399

# Split Complementary

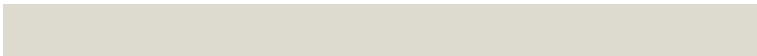
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



69.9749, 0.3089, 0.3367



69.9749, 0.3096, 0.3181



69.9749, 0.3219, 0.3407

# Square

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



69.9749, 0.3096, 0.3181



69.9749, 0.3258, 0.3329



69.9749, 0.3157, 0.3402



69.9749, 0.2999, 0.3249



# Rectangle

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



69.9749, 0.3096, 0.3181



69.9749, 0.3207, 0.3250



69.9749, 0.3157, 0.3402



69.9749, 0.3048, 0.3331

# Sweetspot

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



69.9779, 0.3096, 0.3181



98.1414, 0.3120, 0.3266



71.9059, 0.3059, 0.3237



21.0259, 0.3121, 0.3267



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.



69.9779, 0.3096, 0.3181



90.9377, 0.3092, 0.3166



70.7551, 0.3131, 0.3182



14.6126, 0.3087, 0.3150



5.1826, 0.2021, 0.0887



0.4125, 0.2189, 0.0980



# Inverse Universe

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



70.5119, 0.3166, 0.3236



91.7315, 0.3171, 0.3228



73.9985, 0.3123, 0.3400



14.7576, 0.3177, 0.3220



9.9365, 0.4940, 0.2495

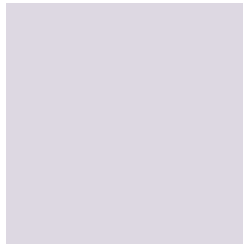


0.7068, 0.4602, 0.2309



# Previews

## White Background



This preview shows how the Yxy color 69.9749, 0.3096, 0.3181 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

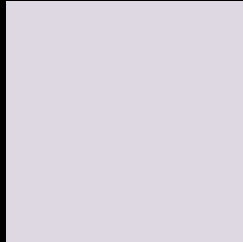
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.9749, 0.3096, 0.3181 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

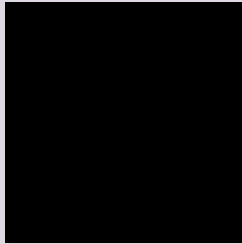
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

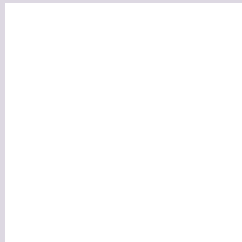
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 69.9749, 0.3096, 0.3181**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.9749, 0.3096, 0.3181.

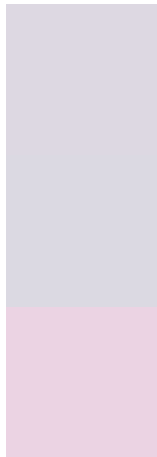


This preview shows how white text looks on a background with the Yxy color 69.9749, 0.3096, 0.3181.

# 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

69.9749, 0.3096, 0.3181

### Protanopia

70.1768, 0.3082, 0.3192

### Deuteranopia

69.7968, 0.3194, 0.3122



## Tritanopia

69.9567, 0.3064, 0.3107

# Trichromacy



## Original Color

69.9749, 0.3096, 0.3181

## Protanomaly

70.3323, 0.3089, 0.3192

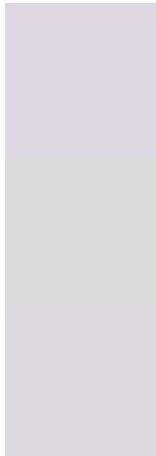
## Deuteranomaly

69.9575, 0.3156, 0.3141

## Tritanomaly

69.8436, 0.3077, 0.3128

# Monochromacy



## Original Color

69.9749, 0.3096, 0.3181

## Achromatopsia

70.8376, 0.3127, 0.3290

## Achromatomaly

70.6324, 0.3115, 0.3246

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.9749, 0.3096, 0.3181 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(221, 216, 226)` looks like.

```
.text, #text, p{  
    color:rgb(221, 216, 226)  
}
```

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(221, 216, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 216, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 69.9749, 0.3096, 0.3181 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(221, 216, 226) }
```

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

```
.border{ border-color:rgb(221, 216, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 216, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 216, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 216, 226);  
box-shadow:4px 4px 4px 4px rgb(221, 216,  
226) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.9749, 0.3096, 0.3181 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 216, 226) }
```

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

```
.background{ background-color: rgb(221,  
216, 226) }
```

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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