

# Converting Colors

$Y_{xy}(72.2230, 0.3068, 0.3092)$

Have a look what the booklet for  
Yxy(72.2230, 0.3068, 0.3092)  
contains.

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# Color

**Yxy(72.5298, 0.3072, 0.3100)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E3DAEC
RGB	227, 218, 236
RGB Percent	89%, 85%, 93%
CMY	0.1100, 0.1450, 0.0745
CMYK	0.04, 0.08, 0.00, 0.07
HSL	270°, 32%, 89%
HSV	270°, 8%, 93%
XYZ	71.8747, 72.5298, 89.5626
YIQ	222.7430, -0.4140, 7.5060

# Conversions

## Conversions Part 2

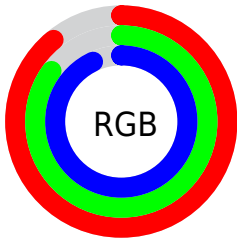
Format	Color
R <sub>Y</sub> B	227, 218, 236
Decimal	14932716
CIE Lab	88.22, 6.29, -7.70
CIE LCh	88, 9.942, 309.261
Yxy	72.5298, 0.3072, 0.3100
Android (android.graphics.Color)	4293122796 (0xFFE3DAEC)
YUV	222.7430, 6.5357, 3.7334
Hunter-Lab	85.1644, 1.6077, -2.7368

# Details

The Yxy color `72.5298, 0.3072, 0.3100` is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be `81.3947, 0.3179, 0.3480`, and the grayscale version is `73.5493, 0.3127, 0.3290`.

A 20% lighter version of the original color is `100.0000, 0.3127, 0.3290`, and `38.2603, 0.3064, 0.3057` is the 20% darker color. If you saturate the color by 10%, you get `59.2835, 0.2989, 0.2832`, and if you desaturate by 10%, it is `87.6586, 0.3143, 0.3347`.

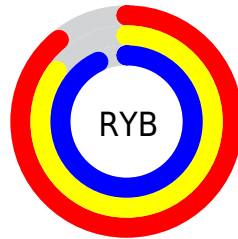
# Distribution



Red (89%)

Green (85%)

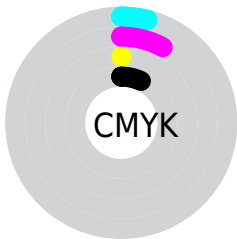
Blue (93%)



Red (89%)

Yellow (85%)

Blue (93%)

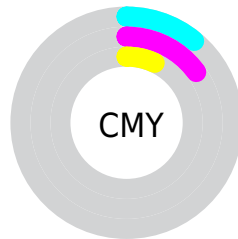


Cyan (4%)

Magenta (8%)

Yellow (0%)

Black (7%)



Cyan (11%)

Magenta (15%)

Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.5298, 0.3072, 0.3100 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 72.5298, 0.3072, 0.3100 by changing the saturation by 10% instead.



72.5298, 0.3072,  
0.3100

72.5298, 0.3072,  
0.3100

469.3836, 0.3098,  
0.3187

53.5916, 0.3066,  
0.3080

122.8095, 0.3081,  
0.3130

38.2752, 0.3058,  
0.3056

154.9197, 0.3085,  
0.3142

26.1964, 0.3049,  
0.3026

192.1894, 0.3088,  
0.3152

16.9706, 0.3036,  
0.2986

235.0029, 0.3090,  
0.3161

10.2135, 0.3019,  
0.2933

283.7447, 0.3093,  
0.3168

5.5408, 0.2993,  
0.2857

338.7992, 0.3095,

2.5679, 0.2951,

0.3175

0.2739

400.5506, 0.3096,  
0.3182

■ 0.9106, 0.2874,  
0.2537

■ 0.0000, 0.0000,  
0.0000

■ 72.5298, 0.3072,  
0.3100

■ 72.5298, 0.3072,  
0.3100

■ 59.2835, 0.2989,  
0.2832

■ 87.6586, 0.3143,  
0.3347

■ 47.8343, 0.2892,  
0.2546

■ 98.0339, 0.3211,  
0.3475

■ 38.1042, 0.2783,  
0.2248

■ 98.8358, 0.3238,  
0.3473

■ 30.0056, 0.2661,  
0.1949

■ 23.4429, 0.2531,  
0.1661

■ 18.3103, 0.2397,  
0.1399

■ 14.4878, 0.2264,  
0.1178

■ 11.8350, 0.2139,  
0.1010

■ 10.1642, 0.2026,  
0.0898

# Harmonies

## Analogous

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



72.5298, 0.2967, 0.3089



72.5298, 0.3072, 0.3100



72.5298, 0.3194, 0.3160

# Triad

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



72.5298, 0.3072, 0.3100



72.5298, 0.3354, 0.3447



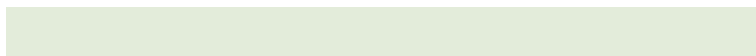
72.5298, 0.2958, 0.3325

# Complementary

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



72.5298, 0.3072, 0.3100



81.3947, 0.3179, 0.3480

# 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.



72.5298, 0.3058, 0.3426



72.5298, 0.3072, 0.3100



72.5298, 0.3288, 0.3496

# Square

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



72.5298, 0.3072, 0.3100



72.5298, 0.3358, 0.3357



72.5298, 0.3179, 0.3489



72.5298, 0.2902, 0.3216



# Rectangle

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



72.5298, 0.3072, 0.3100



72.5298, 0.3268, 0.3219



72.5298, 0.3179, 0.3489



72.5298, 0.2987, 0.3361

# Sweetspot

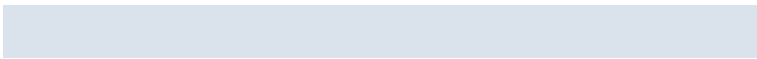
The Sweet Spot groups the original color and five complimentary colors.



72.5329, 0.3072, 0.3100



96.3049, 0.3113, 0.3241



76.0727, 0.3010, 0.3197



20.6519, 0.3114, 0.3244



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.



72.5329, 0.3072, 0.3100



84.0935, 0.3061, 0.3063



73.9925, 0.3134, 0.3104



14.9159, 0.3058, 0.3052



5.5024, 0.2017, 0.0885



0.4892, 0.2167, 0.0968



# Inverse Universe

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



73.5385, 0.3196, 0.3195



85.5097, 0.3210, 0.3177



80.0063, 0.3120, 0.3483



15.1807, 0.3214, 0.3172



10.5893, 0.4940, 0.2495

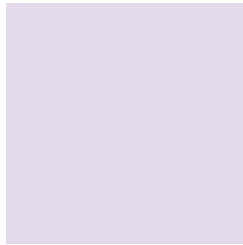


0.8509, 0.4635, 0.2327



# Previews

## White Background



This preview shows how the Yxy color 72.5298, 0.3072, 0.3100 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

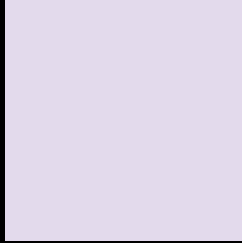
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 72.5298, 0.3072, 0.3100 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

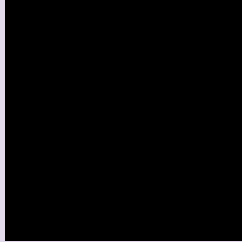
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

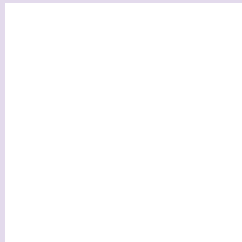
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 72.5298, 0.3072, 0.3100**

## Background



This preview shows how black text looks on a background with the Yxy color 72.5298, 0.3072, 0.3100.



This preview shows how white text looks on a background with the Yxy color 72.5298, 0.3072, 0.3100.

# 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

72.5298, 0.3072, 0.3100

### Protanopia

72.6730, 0.3024, 0.3108

### Deuteranopia

72.5482, 0.3131, 0.3062



## Tritanopia

72.4719, 0.3079, 0.3110

# Trichromacy



## Original Color

72.5298, 0.3072, 0.3100

## Protanomaly

72.4654, 0.3038, 0.3098

## Deuteranomaly

72.5498, 0.3109, 0.3071

## Tritanomaly

72.4719, 0.3079, 0.3110

# Monochromacy



## Original Color

72.5298, 0.3072, 0.3100

## Achromatopsia

73.7910, 0.3127, 0.3290

## Achromatomaly

73.1616, 0.3102, 0.3215

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.5298, 0.3072, 0.3100 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(227, 218, 236)` looks like.

```
.text, #text, p{  
    color:rgb(227, 218, 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(227, 218, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 218, 236) }
```

## Border

The CSS property to change the border of an element to Yxy 72.5298, 0.3072, 0.3100 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(227, 218, 236) }
```

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

```
.border{ border-color:rgb(227, 218, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(227, 218, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 218, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 218, 236);  
box-shadow:4px 4px 4px 4px rgb(227, 218,  
236) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 72.5298, 0.3072, 0.3100$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 218, 236) }
```

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

```
.background{ background-color: rgb(227,  
218, 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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