

# Converting Colors

$Y_{xy}(48.4090, 0.2736, 0.2718)$

Have a look what the booklet for  
Yxy(48.4090, 0.2736, 0.2718)  
contains.

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# Color

**Yxy(48.2270, 0.2733, 0.2715)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AFB6E5
RGB	175, 182, 229
RGB Percent	69%, 71%, 90%
CMY	0.3137, 0.2862, 0.1021
CMYK	0.24, 0.21, 0.00, 0.10
HSL	232°, 51%, 79%
HSV	232°, 24%, 90%
XYZ	48.5467, 48.2270, 80.8579
YIQ	185.2650, -19.2590, 13.1330

# Conversions

## Conversions Part 2

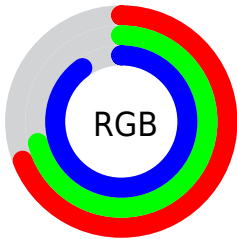
Format	Color
R <sub>Y</sub> B	175, 181, 229
Decimal	11515621
CIE Lab	74.97, 7.58, -24.27
CIE LCh	75, 25.427, 287.333
Yxy	48.2270, 0.2733, 0.2715
Android (android.graphics.Color)	4289705701 (0xFFAFB6E5)
YUV	185.2650, 21.5614, -9.0024
Hunter-Lab	69.4457, 3.2524, -20.4214

# Details

The Yxy color **48.2270, 0.2733, 0.2715** is a light color, and the websafe version is hex **CCCCFF**. A complement of this color would be **71.9737, 0.3499, 0.3806**, and the grayscale version is **48.5573, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.3580, 0.2980, 0.3118**, and **22.8552, 0.2632, 0.2568** is the 20% darker color. If you saturate the color by 10%, you get **38.2110, 0.2540, 0.2424**, and if you desaturate by 10%, it is **59.8573, 0.2912, 0.2979**.

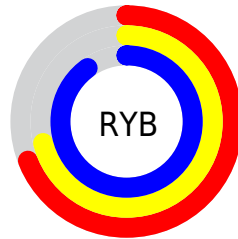
# Distribution



Red (69%)

Green (71%)

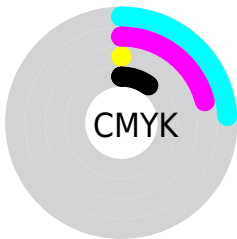
Blue (90%)



Red (69%)

Yellow (71%)

Blue (90%)

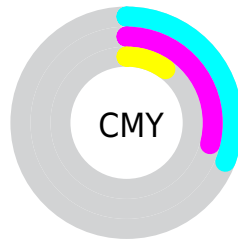


Cyan (24%)

Magenta (21%)

Yellow (0%)

Black (10%)



Cyan (31%)

Magenta (29%)

Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.2270, 0.2733, 0.2715 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 48.2270, 0.2733, 0.2715 by changing the saturation by 10% instead.



■ 48.2270, 0.2733,  
0.2715

■ 48.2270, 0.2733,  
0.2715

379.6912, 0.2928,  
0.2993

■ 34.0067, 0.2685,  
0.2649

■ 87.5423, 0.2803,  
0.2813

■ 22.8987, 0.2625,  
0.2566

113.4061, 0.2830,  
0.2851

■ 14.5188, 0.2546,  
0.2460

143.9198, 0.2852,  
0.2883

■ 8.4823, 0.2438,  
0.2317

179.4678, 0.2872,  
0.2911

■ 4.4051, 0.2284,  
0.2119

220.4346, 0.2889,  
0.2935

■ 1.9027, 0.2050,  
0.1827

267.2045, 0.2903,

■ 0.5500, 0.1661,

0.2957

0.1291

320.1619, 0.2916,  
0.2976

0.0000, 0.0000,  
0.0000

48.2270, 0.2733,  
0.2715

48.2270, 0.2733,  
0.2715

38.2110, 0.2540,  
0.2424

59.8573, 0.2912,  
0.2979

29.7320, 0.2339,  
0.2112

73.1630, 0.3074,  
0.3213

22.7151, 0.2136,  
0.1790

88.2092, 0.3218,  
0.3419

17.0768, 0.1945,  
0.1474

98.4356, 0.3280,  
0.3542

12.7249, 0.1777,  
0.1185

■ 9.5557, 0.1646,  
0.0943

■ 7.4488, 0.1559,  
0.0765

■ 6.5701, 0.1524,  
0.0686

# Harmonies

## Analogous

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



48.2270, 0.2528, 0.2776



48.2270, 0.2733, 0.2715



48.2270, 0.3052, 0.2792

# Triad

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



48.2270, 0.2733, 0.2715



48.2270, 0.3827, 0.3539



48.2270, 0.2833, 0.3626

# Complementary

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



48.2270, 0.2733, 0.2715



71.9737, 0.3499, 0.3806

# 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.



48.2270, 0.3171, 0.3863



48.2270, 0.2733, 0.2715



48.2270, 0.3754, 0.3786

# Square

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



48.2270, 0.2733, 0.2715



48.2270, 0.3699, 0.3250



48.2270, 0.3510, 0.3916



48.2270, 0.2582, 0.3291



# Rectangle

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



48.2270, 0.2733, 0.2715



48.2270, 0.3292, 0.2909



48.2270, 0.3510, 0.3916



48.2270, 0.2939, 0.3722

# Sweetspot

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



48.2289, 0.2733, 0.2715



87.2572, 0.3019, 0.3135



70.3996, 0.2820, 0.3374



18.4524, 0.3010, 0.3121



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.



48.2289, 0.2733, 0.2715



55.4427, 0.2646, 0.2584



47.8907, 0.2878, 0.2654



14.1872, 0.2980, 0.3079



3.8541, 0.1528, 0.0702



0.3827, 0.1585, 0.0906



# Inverse Universe

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



50.6920, 0.3552, 0.3211



59.2194, 0.3664, 0.3195



72.7008, 0.3336, 0.3906



14.3983, 0.3272, 0.3260



9.5868, 0.6230, 0.3206

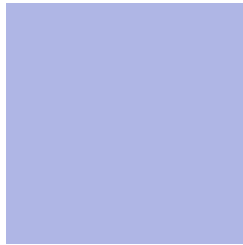


0.7183, 0.5902, 0.3025



# Previews

## White Background



This preview shows how the Yxy color 48.2270, 0.2733, 0.2715 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

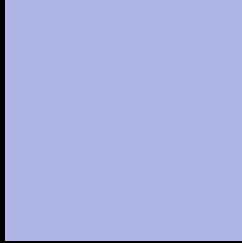
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.2270, 0.2733, 0.2715 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

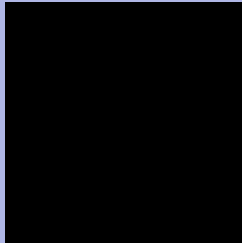
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.2270, 0.2733, 0.2715**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.2270, 0.2733, 0.2715.



This preview shows how white text looks on a background with the Yxy color 48.2270, 0.2733, 0.2715.

# 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

48.2270, 0.2733, 0.2715

### Protanopia

48.4084, 0.2719, 0.2725

### Deuteranopia

48.2886, 0.2761, 0.2707



## Tritanopia

48.3510, 0.2882, 0.3096

# Trichromacy



## Original Color

48.2270, 0.2733, 0.2715

## Protanomaly

48.5228, 0.2727, 0.2726

## Deuteranomaly

48.1699, 0.2754, 0.2706

## Tritanomaly

48.2220, 0.2826, 0.2947

# Monochromacy



## Original Color

48.2270, 0.2733, 0.2715

## Achromatopsia

48.5150, 0.3127, 0.3290

## Achromatomaly

48.3218, 0.2974, 0.3074

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.2270, 0.2733, 0.2715 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(175, 182, 229)` looks like.

```
.text, #text, p{  
    color:rgb(175, 182, 229)  
}
```

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(175, 182, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 182, 229) }
```

## Border

The CSS property to change the border of an element to Yxy 48.2270, 0.2733, 0.2715 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(175, 182, 229) }
```

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

```
.border{ border-color:rgb(175, 182, 229) }
```

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

Here you see how a box with a 4 pixel `rgb(175, 182, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(175, 182, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(175, 182, 229);  
box-shadow:4px 4px 4px 4px rgb(175, 182,  
229) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.2270, 0.2733, 0.2715 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 182, 229) }
```

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

```
.background{ background-color: rgb(175,  
182, 229) }
```

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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