

# Converting Colors

$Y_{xy}(46.6325, 0.2723, 0.2630)$

Have a look what the booklet for  
Yxy(46.6325, 0.2723, 0.2630)  
contains.

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# Color

**Yxy(46.5609, 0.2729, 0.2632)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B1B1E7
RGB	177, 177, 231
RGB Percent	69%, 69%, 91%
CMY	0.3060, 0.3059, 0.0940
CMYK	0.23, 0.23, 0.00, 0.09
HSL	240°, 53%, 80%
HSV	240°, 23%, 91%
XYZ	48.2769, 46.5609, 82.0654
YIQ	183.1560, -17.3340, 16.7940

# Conversions

## Conversions Part 2

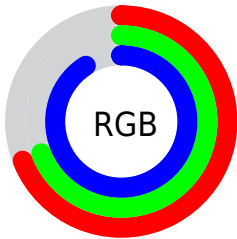
<b>Format</b>	<b>Color</b>
<b>RYB</b>	177, 177, 231
Decimal	11645415
CIELab	73.91, 11.40, -27.00
CIELCh	74, 29.306, 292.896
Yxy	46.5609, 0.2729, 0.2632
Android (android.graphics.Color)	4289835495 (0xFFB1B1E7)
YUV	183.1560, 23.5871, -5.3988
Hunter-Lab	68.2355, 6.8771, -23.5419

# Details

The Yxy color  $46.5609, 0.2729, 0.2632$  is a light color, and the websafe version is hex  $9999CC$ . A complement of this color would be  $77.3214, 0.3480, 0.3873$ , and the grayscale version is  $47.3192, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $82.8215, 0.2993, 0.3068$ , and  $21.9733, 0.2617, 0.2475$  is the 20% darker color. If you saturate the color by 10%, you get  $35.7122, 0.2527, 0.2298$ , and if you desaturate by 10%, it is  $59.4161, 0.2913, 0.2936$ .

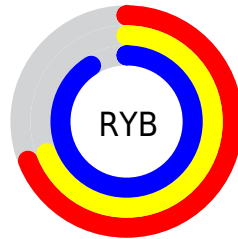
# Distribution



Red (69%)

Green (69%)

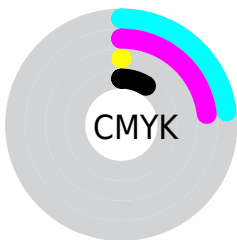
Blue (91%)



Red (69%)

Yellow (69%)

Blue (91%)

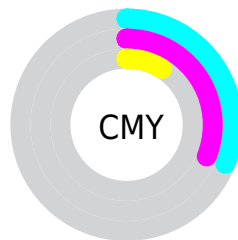


Cyan (23%)

Magenta (23%)

Yellow (0%)

Black (9%)



Cyan (31%)

Magenta (31%)

Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.5609, 0.2729, 0.2632 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 46.5609, 0.2729, 0.2632 by changing the saturation by 10% instead.



■ 46.5609, 0.2729,  
0.2632

■ 46.5609, 0.2729,  
0.2632

373.0591, 0.2928,  
0.2948

■ 32.6887, 0.2680,  
0.2557

■ 85.0578, 0.2801,  
0.2744

■ 21.8881, 0.2618,  
0.2464

110.4513, 0.2828,  
0.2787

■ 13.7747, 0.2536,  
0.2343

140.4539, 0.2851,  
0.2824

■ 7.9641, 0.2424,  
0.2184

175.4502, 0.2871,  
0.2855

■ 4.0720, 0.2263,  
0.1964

215.8245, 0.2888,  
0.2883

■ 1.7139, 0.2017,  
0.1646

261.9611, 0.2903,

■ 0.4326, 0.1618,

0.2907

0.1015

314.2445, 0.2916,  
0.2929

0.0000, 0.0000,  
0.0000

46.5609, 0.2729,  
0.2632

46.5609, 0.2729,  
0.2632

35.7122, 0.2527,  
0.2298

59.4161, 0.2913,  
0.2936

26.7635, 0.2312,  
0.1943

74.3657, 0.3076,  
0.3206

19.6072, 0.2097,  
0.1587

91.4995, 0.3219,  
0.3442

14.1226, 0.1895,  
0.1253

98.5512, 0.3268,  
0.3522

10.1743, 0.1724,  
0.0970

■ 7.6057, 0.1598,  
0.0762

■ 6.2270, 0.1525,  
0.0641

■ 5.7736, 0.1500,  
0.0600

# Harmonies

## Analogous

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



46.5609, 0.2466, 0.2668



46.5609, 0.2729, 0.2632



46.5609, 0.3114, 0.2748

# Triad

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



46.5609, 0.2729, 0.2632



46.5609, 0.3946, 0.3632



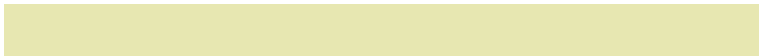
46.5609, 0.2719, 0.3615

# Complementary

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



46.5609, 0.2729, 0.2632



77.3214, 0.3480, 0.3873

# 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.



46.5609, 0.3098, 0.3928



46.5609, 0.2729, 0.2632



46.5609, 0.3816, 0.3904

# Square

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



46.5609, 0.2729, 0.2632



46.5609, 0.3840, 0.3301



46.5609, 0.3501, 0.4029



46.5609, 0.2459, 0.3213



# Rectangle

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



46.5609, 0.2729, 0.2632



46.5609, 0.3394, 0.2896



46.5609, 0.3501, 0.4029



46.5609, 0.2836, 0.3737

# Sweetspot

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



46.5628, 0.2729, 0.2632



85.9106, 0.3019, 0.3112



72.2338, 0.2787, 0.3299



18.1419, 0.3010, 0.3096



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.



46.5628, 0.2729, 0.2632



51.4903, 0.2635, 0.2476



49.9188, 0.2929, 0.2668



13.8883, 0.2980, 0.3047



3.2363, 0.1500, 0.0600



0.2396, 0.1501, 0.0601



# Inverse Universe

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



51.6049, 0.3611, 0.3291



58.8204, 0.3744, 0.3291



73.3079, 0.3290, 0.3911



14.3681, 0.3292, 0.3290



9.5244, 0.6400, 0.3299

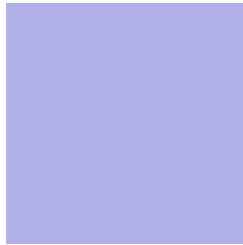


0.7039, 0.6399, 0.3299



# Previews

## White Background



This preview shows how the Yxy color 46.5609, 0.2729, 0.2632 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

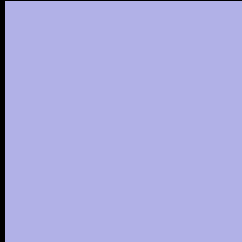
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.5609, 0.2729, 0.2632 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

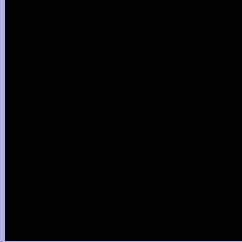
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.5609, 0.2729, 0.2632**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.5609, 0.2729, 0.2632.



This preview shows how white text looks on a background with the Yxy color 46.5609, 0.2729, 0.2632.

# 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

46.5609, 0.2729, 0.2632

### Protanopia

46.8505, 0.2655, 0.2637

### Deuteranopia

46.4945, 0.2701, 0.2640



## Tritanopia

46.6021, 0.2916, 0.3094

# Trichromacy



## Original Color

46.5609, 0.2729, 0.2632

## Protanomaly

46.7243, 0.2682, 0.2639

## Deuteranomaly

46.6090, 0.2708, 0.2641

## Tritanomaly

46.5851, 0.2845, 0.2920

# Monochromacy



## Original Color

46.5609, 0.2729, 0.2632

## Achromatopsia

47.3531, 0.3127, 0.3290

## Achromatomaly

47.0416, 0.2981, 0.3048

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.5609, 0.2729, 0.2632 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(177, 177, 231)` looks like.

```
.text, #text, p{  
    color:rgb(177, 177, 231)  
}
```

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(177, 177, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 177, 231) }
```

## Border

The CSS property to change the border of an element to Yxy 46.5609, 0.2729, 0.2632 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(177, 177, 231) }
```

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

```
.border{ border-color:rgb(177, 177, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(177, 177, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 177, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 177, 231);  
box-shadow:4px 4px 4px 4px rgb(177, 177,  
231) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.5609, 0.2729, 0.2632 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 177, 231) }
```

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

```
.background{ background-color: rgb(177,  
177, 231) }
```

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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