

# Converting Colors

$Y_{xy}(46.8504, 0.2688, 0.2661)$

Have a look what the booklet for  
Yxy(46.8504, 0.2688, 0.2661)  
contains.

<b>Yxy(47.0700, 0.2689, 0.2662)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(47.0700, 0.2689, 0.2662)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ABB4E7
RGB	171, 180, 231
RGB Percent	67%, 71%, 91%
CMY	0.3293, 0.2941, 0.0940
CMYK	0.26, 0.22, 0.00, 0.09
HSL	231°, 56%, 79%
HSV	231°, 26%, 91%
XYZ	47.5474, 47.0700, 82.2045
YIQ	183.1230, -21.7350, 13.9530

# Conversions

## Conversions Part 2

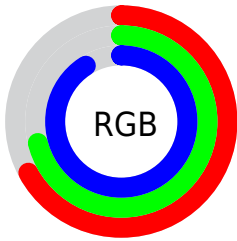
Format	Color
R <sub>Y</sub> B	171, 179, 231
Decimal	11252967
CIE Lab	74.23, 7.97, -26.54
CIE LCh	74, 27.709, 286.727
Yxy	47.0700, 0.2689, 0.2662
Android (android.graphics.Color)	4289443047 (0xFFABB4E7)
YUV	183.1230, 23.6034, -10.6319
Hunter-Lab	68.6076, 3.6434, -23.0150

# Details

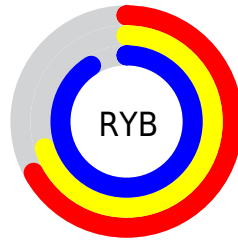
The Yxy color  $47.0700, 0.2689, 0.2662$  is a light color, and the websafe version is hex `CCCCFF`. A complement of this color would be  $72.2152, 0.3542, 0.3848$ , and the grayscale version is  $47.3056, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $83.5418, 0.2955, 0.3096$ , and  $22.0558, 0.2565, 0.2497$  is the 20% darker color. If you saturate the color by 10%, you get  $37.3200, 0.2495, 0.2372$ , and if you desaturate by 10%, it is  $58.4021, 0.2870, 0.2926$ .

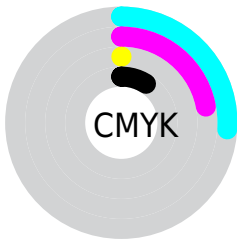
# Distribution



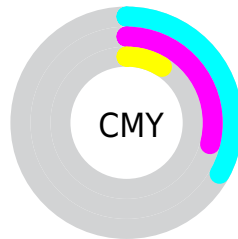
- Red (67%)
- Green (71%)
- Blue (91%)



- Red (67%)
- Yellow (70%)
- Blue (91%)



- Cyan (26%)
- Magenta (22%)
- Yellow (0%)
- Black (9%)



- Cyan (33%)
- Magenta (29%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.0700, 0.2689, 0.2662 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 47.0700, 0.2689, 0.2662 by changing the saturation by 10% instead.



■ 47.0700, 0.2689,  
0.2662

■ 47.0700, 0.2689,  
0.2662

375.0939, 0.2906,  
0.2965

■ 33.0910, 0.2636,  
0.2590

■ 85.8181, 0.2767,  
0.2770

■ 22.1962, 0.2569,  
0.2500

111.3560, 0.2797,  
0.2811

■ 14.0011, 0.2481,  
0.2383

141.5156, 0.2822,  
0.2846

■ 8.1214, 0.2361,  
0.2229

176.6814, 0.2843,  
0.2876

■ 4.1728, 0.2191,  
0.2014

217.2377, 0.2862,  
0.2903

■ 1.7707, 0.1932,  
0.1701

263.5690, 0.2879,

■ 0.4688, 0.1502,

0.2926

0.1100

316.0596, 0.2893,  
0.2947

0.0000, 0.0000,  
0.0000

47.0700, 0.2689,  
0.2662

47.0700, 0.2689,  
0.2662

37.3200, 0.2495,  
0.2372

58.4021, 0.2870,  
0.2926

29.0759, 0.2294,  
0.2063

71.3769, 0.3036,  
0.3163

22.2633, 0.2096,  
0.1746

86.0586, 0.3185,  
0.3370

16.7993, 0.1910,  
0.1438

98.5514, 0.3268,  
0.3522

12.5924, 0.1751,  
0.1159

■ 9.5390, 0.1629,  
0.0927

■ 7.5179, 0.1552,  
0.0758

■ 6.9450, 0.1530,  
0.0708

# Harmonies

## Analogous

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



47.0700, 0.2469, 0.2730



47.0700, 0.2689, 0.2662



47.0700, 0.3035, 0.2744

# Triad

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



47.0700, 0.2689, 0.2662



47.0700, 0.3896, 0.3553



47.0700, 0.2810, 0.3667

# Complementary

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



47.0700, 0.2689, 0.2662



72.2152, 0.3542, 0.3848

# 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.



47.0700, 0.3181, 0.3926



47.0700, 0.2689, 0.2662



47.0700, 0.3819, 0.3827

# Square

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



47.0700, 0.2689, 0.2662



47.0700, 0.3751, 0.3238



47.0700, 0.3552, 0.3977



47.0700, 0.2534, 0.3296



# Rectangle

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



47.0700, 0.2689, 0.2662



47.0700, 0.3299, 0.2870



47.0700, 0.3552, 0.3977



47.0700, 0.2927, 0.3773

# Sweetspot

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



47.0719, 0.2689, 0.2662



85.7581, 0.3003, 0.3116



71.1072, 0.2797, 0.3395



17.8155, 0.2979, 0.3081



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.



47.0719, 0.2689, 0.2662



52.3078, 0.2590, 0.2514



46.1183, 0.2839, 0.2581



14.2329, 0.2980, 0.3084



4.0031, 0.1535, 0.0725



0.4044, 0.1597, 0.0950



# Inverse Universe

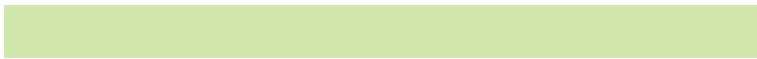
The Inverse Universe completely reimagines the original color for something new.



49.4259, 0.3599, 0.3189



55.9115, 0.3729, 0.3168



73.8181, 0.3365, 0.3972



14.4029, 0.3269, 0.3255



9.6018, 0.6191, 0.3184

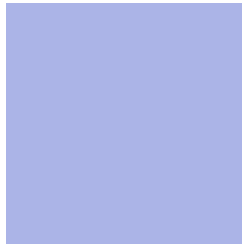


0.7205, 0.5835, 0.2988



# Previews

## White Background



This preview shows how the Yxy color 47.0700, 0.2689, 0.2662 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

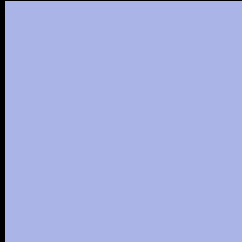
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.0700, 0.2689, 0.2662 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

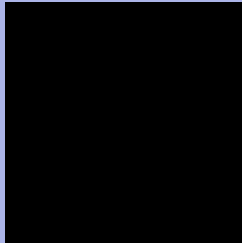
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 47.0700, 0.2689, 0.2662**

## Background



This preview shows how black text looks on a background with the Yxy color 47.0700, 0.2689, 0.2662.



This preview shows how white text looks on a background with the Yxy color 47.0700, 0.2689, 0.2662.

# 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

47.0700, 0.2689, 0.2662

### Protanopia

46.9581, 0.2682, 0.2661

### Deuteranopia

47.1237, 0.2717, 0.2655



## Tritanopia

47.2873, 0.2857, 0.3106

# Trichromacy



## Original Color

47.0700, 0.2689, 0.2662

## Protanomaly

46.9581, 0.2682, 0.2661

## Deuteranomaly

47.0084, 0.2709, 0.2654

## Tritanomaly

47.1996, 0.2795, 0.2942

# Monochromacy



## Original Color

47.0700, 0.2689, 0.2662

## Achromatopsia

47.3531, 0.3127, 0.3290

## Achromatomaly

47.2097, 0.2965, 0.3060

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.0700, 0.2689, 0.2662 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(171, 180, 231)` looks like.

```
.text, #text, p{  
    color:rgb(171, 180, 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(171, 180, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 180, 231) }
```

## Border

The CSS property to change the border of an element to Yxy 47.0700, 0.2689, 0.2662 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(171, 180, 231) }
```

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

```
.border{ border-color:rgb(171, 180, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 180, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 180, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 180, 231);  
box-shadow:4px 4px 4px 4px rgb(171, 180,  
231) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.0700, 0.2689, 0.2662 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 180, 231) }
```

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

```
.background{ background-color: rgb(171,  
180, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor