

# Converting Colors

$Y_{xy}(47.8702, 0.2716, 0.3038)$

Have a look what the booklet for  
Yxy(47.8702, 0.2716, 0.3038)  
contains.

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# Color

**Yxy(47.7216, 0.2720, 0.3038)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99BDD0
RGB	153, 189, 208
RGB Percent	60%, 74%, 82%
CMY	0.3998, 0.2589, 0.1843
CMYK	0.26, 0.09, 0.00, 0.18
HSL	201°, 37%, 71%
HSV	201°, 26%, 82%
XYZ	42.7264, 47.7216, 66.6343
YIQ	180.4020, -27.5550, -1.7230

# Conversions

## Conversions Part 2

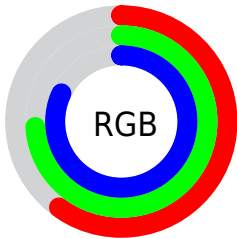
<b>Format</b>	<b>Color</b>
<b>RYB</b>	153, 175, 208
Decimal	10075600
CIELab	74.65, -7.71, -13.51
CIELCh	75, 15.554, 240.296
Yxy	47.7216, 0.2720, 0.3038
Android (android.graphics.Color)	4288265680 (0xFF99BDD0)
YUV	180.4020, 13.6058, -24.0316
Hunter-Lab	69.0808, -10.4895, -8.8337

# Details

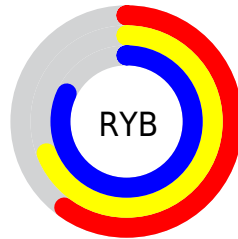
The Yxy color **47.7216, 0.2720, 0.3038** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **45.2393, 0.3629, 0.3529**, and the grayscale version is **45.8113, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.9347, 0.2843, 0.3185**, and **22.6507, 0.2602, 0.2963** is the 20% darker color. If you saturate the color by 10%, you get **42.8530, 0.2569, 0.2926**, and if you desaturate by 10%, it is **53.1005, 0.2874, 0.3141**.

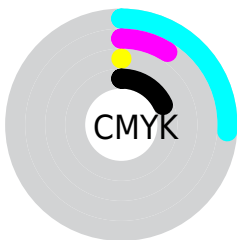
# Distribution



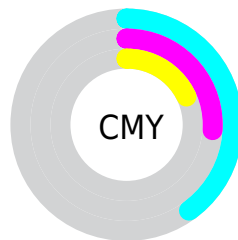
- Red (60%)
- Green (74%)
- Blue (82%)



- Red (60%)
- Yellow (69%)
- Blue (82%)



- Cyan (26%)
- Magenta (9%)
- Yellow (0%)
- Black (18%)




- Cyan (40%)
- Magenta (26%)
- Yellow (18%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.7216, 0.2720, 0.3038 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 47.7216, 0.2720, 0.3038 by changing the saturation by 10% instead.





 47.7216, 0.2720,  
0.3038


 47.7216, 0.2720,  
0.3038


377.6876, 0.2920,  
0.3165

 33.6065, 0.2671,  
0.3006


 86.7898, 0.2792,  
0.3084

 22.5914, 0.2609,  
0.2965


 112.5116, 0.2819,  
0.3102

 14.2921, 0.2528,  
0.2910


142.8711, 0.2842,  
0.3117

 8.3241, 0.2418,  
0.2833

178.2526, 0.2862,  
0.3129

 4.3030, 0.2258,  
0.2719

219.0407, 0.2879,  
0.3140

 1.8445, 0.2010,  
0.2532

265.6196, 0.2895,

 0.5147, 0.1240,

0.3149

0.2120

318.3737, 0.2908,  
0.3158

0.0000, 0.0000,  
0.0000

47.7216, 0.2720,  
0.3038

47.7216, 0.2720,  
0.3038

42.8530, 0.2569,  
0.2926

53.1005, 0.2874,  
0.3141

38.4684, 0.2426,  
0.2807

59.0030, 0.3029,  
0.3235

34.5474, 0.2293,  
0.2680

65.4490, 0.3181,  
0.3319

31.0658, 0.2175,  
0.2550

72.4557, 0.3330,  
0.3395

27.9963, 0.2076,  
0.2416

79.6479, 0.3458,  
0.3462

■ 25.3074, 0.1996,  
0.2284

■ 83.6200, 0.3445,  
0.3533

■ 22.9594, 0.1937,  
0.2153

■ 87.7580, 0.3432,  
0.3603

■ 22.1765, 0.1919,  
0.2107

■ 92.0638, 0.3420,  
0.3672

■ 96.5393, 0.3408,  
0.3739

# Harmonies

## Analogous

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



47.7216, 0.2746, 0.3208



47.7216, 0.2720, 0.3038



47.7216, 0.2799, 0.2943

# Triad

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



47.7216, 0.2720, 0.3038



47.7216, 0.3386, 0.3169



47.7216, 0.3281, 0.3668

# Complementary

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



47.7216, 0.2720, 0.3038



45.2393, 0.3629, 0.3529

# 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.



47.7216, 0.3461, 0.3643



47.7216, 0.2720, 0.3038



47.7216, 0.3524, 0.3350

# Square

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



47.7216, 0.2720, 0.3038



47.7216, 0.3179, 0.3021



47.7216, 0.3551, 0.3524



47.7216, 0.3065, 0.3583



# Rectangle

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



47.7216, 0.2720, 0.3038



47.7216, 0.2901, 0.2930



47.7216, 0.3551, 0.3524



47.7216, 0.3348, 0.3672

# Sweetspot

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



47.7235, 0.2720, 0.3038



91.9140, 0.3003, 0.3220



54.8442, 0.2972, 0.3783



19.3614, 0.2980, 0.3206



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

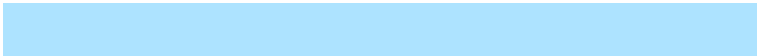


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



47.7235, 0.2720, 0.3038



70.9639, 0.2630, 0.2972



37.2456, 0.2685, 0.2668



12.6898, 0.2983, 0.3208



14.0078, 0.1924, 0.2125



0.9283, 0.1990, 0.2364



# Inverse Universe

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



39.8829, 0.3332, 0.2852



56.8343, 0.3391, 0.2749



56.4866, 0.3549, 0.3844



11.9367, 0.3190, 0.3139



9.4854, 0.4314, 0.2150



0.5450, 0.4060, 0.2010



# Previews

## White Background



This preview shows how the Yxy color 47.7216, 0.2720, 0.3038 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

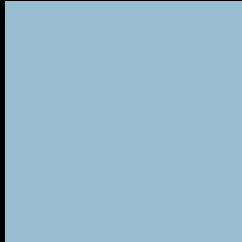
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.7216, 0.2720, 0.3038 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

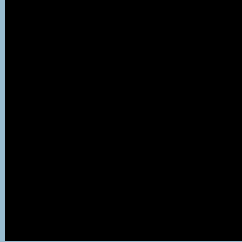
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 47.7216, 0.2720, 0.3038**

## Background



This preview shows how black text looks on a background with the Yxy color 47.7216, 0.2720, 0.3038.



This preview shows how white text looks on a background with the Yxy color 47.7216, 0.2720, 0.3038.

# 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

47.7216, 0.2720, 0.3038

### Protanopia

47.4710, 0.2951, 0.3023

### Deuteranopia

47.5847, 0.2963, 0.2907



## Tritanopia

47.9101, 0.2733, 0.3090

# Trichromacy



## Original Color

47.7216, 0.2720, 0.3038

## Protanomaly

47.6517, 0.2859, 0.3032

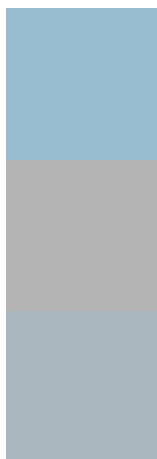
## Deuteranomaly

47.5844, 0.2869, 0.2960

## Tritanomaly

47.9585, 0.2727, 0.3077

# Monochromacy



## Original Color

47.7216, 0.2720, 0.3038

## Achromatopsia

45.6411, 0.3127, 0.3290

## Achromatomaly

46.1307, 0.2966, 0.3197

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.7216, 0.2720, 0.3038 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(153, 189, 208)` looks like.

```
.text, #text, p{  
    color:rgb(153, 189, 208)  
}
```

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(153, 189, 208) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 189, 208) }
```

## Border

The CSS property to change the border of an element to Yxy 47.7216, 0.2720, 0.3038 is called "border". The border property can be set on classes, ids or directly on the HTML element.

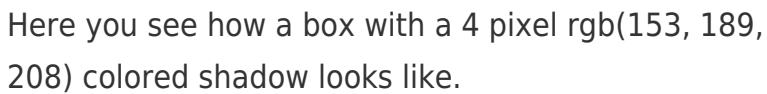
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(153, 189, 208) }
```

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

```
.border{ border-color:rgb(153, 189, 208) }
```

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



Here you see how a box with a 4 pixel `rgb(153, 189, 208)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(153, 189, 208); -webkit-box-shadow:4px 4px 4px 4px rgb(153, 189, 208); box-shadow:4px 4px 4px 4px rgb(153, 189, 208) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.7216, 0.2720, 0.3038 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 189, 208) }
```

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

```
.background{ background-color: rgb(153,  
189, 208) }
```

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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