

# Converting Colors

$Y_{xy}(42.0817, 0.2800, 0.3018)$

Have a look what the booklet for  
Yxy(42.0817, 0.2800, 0.3018)  
contains.

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# Color

**Yxy(42.0048, 0.2800, 0.3016)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9BB0C4
RGB	155, 176, 196
RGB Percent	61%, 69%, 77%
CMY	0.3924, 0.3097, 0.2314
CMYK	0.21, 0.10, 0.00, 0.23
HSL	209°, 26%, 69%
HSV	209°, 21%, 77%
XYZ	38.9965, 42.0048, 58.2719
YIQ	172.0010, -18.9360, 1.7680

# Conversions

## Conversions Part 2

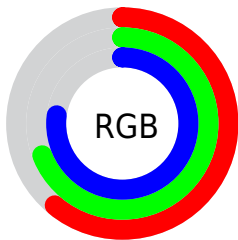
<b>Format</b>	<b>Color</b>
<b>RYB</b>	155, 169, 196
Decimal	10203332
CIELab	70.87, -2.92, -12.60
CIELCh	71, 12.931, 256.933
Yxy	42.0048, 0.2800, 0.3016
Android (android.graphics.Color)	4288393412 (0xFF9BB0C4)
YUV	172.0010, 11.8315, -14.9099
Hunter-Lab	64.8111, -6.0169, -7.9401

# Details

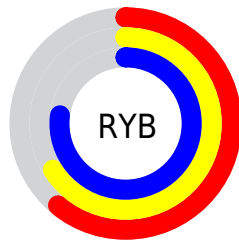
The Yxy color **42.0048, 0.2800, 0.3016** is a light color, and the websafe version is hex **999999**. A complement of this color would be **44.7229, 0.3491, 0.3549**, and the grayscale version is **41.1971, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.5067, 0.2859, 0.3068**, and **19.2519, 0.2708, 0.2948** is the 20% darker color. If you saturate the color by 10%, you get **36.6142, 0.2638, 0.2864**, and if you desaturate by 10%, it is **47.9761, 0.2959, 0.3154**.

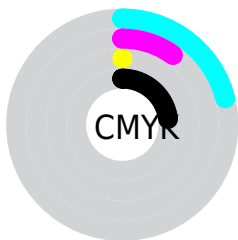
# Distribution



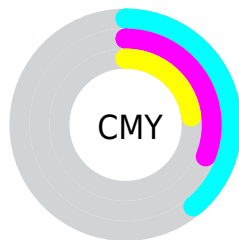
- Red (61%)
- Green (69%)
- Blue (77%)



- Red (61%)
- Yellow (66%)
- Blue (77%)



- Cyan (21%)
- Magenta (10%)
- Yellow (0%)
- Black (23%)



- Cyan (39%)
- Magenta (31%)
- Yellow (23%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.0048, 0.2800, 0.3016 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 42.0048, 0.2800, 0.3016 by changing the saturation by 10% instead.



■ 42.0048, 0.2800,  
0.3016

■ 42.0048, 0.2800,  
0.3016

■ 354.5028, 0.2965,  
0.3156

■ 29.1051, 0.2758,  
0.2980

■ 78.2069, 0.2860,  
0.3067

■ 19.1603, 0.2705,  
0.2934

■ 102.2780, 0.2883,  
0.3086

■ 11.7862, 0.2634,  
0.2872

■ 130.8417, 0.2902,  
0.3102

■ 6.5982, 0.2533,  
0.2785

■ 164.2824, 0.2918,  
0.3116

■ 3.2121, 0.2384,  
0.2651

■ 202.9845, 0.2932,  
0.3128

■ 1.2435, 0.2136,  
0.2427

■ 247.3323, 0.2944,

■ 0.0968, 0.0187,

0.3138

0.0877

297.7103, 0.2955,  
0.3148

0.0000, 0.0000,  
0.0000

42.0048, 0.2800,  
0.3016

42.0048, 0.2800,  
0.3016

36.6142, 0.2638,  
0.2864

47.9761, 0.2959,  
0.3154

31.7787, 0.2478,  
0.2698

54.5423, 0.3113,  
0.3279

27.4780, 0.2322,  
0.2522

61.7234, 0.3260,  
0.3390

23.6885, 0.2176,  
0.2337

69.5370, 0.3399,  
0.3488

20.3840, 0.2045,  
0.2147

77.9996, 0.3529,  
0.3574

■ 17.5357, 0.1934,  
0.1958

■ 83.6494, 0.3524,  
0.3666

■ 15.1098, 0.1845,  
0.1775

■ 89.2008, 0.3503,  
0.3757

■ 13.2261, 0.1783,  
0.1617

■ 95.0484, 0.3483,  
0.3845

■ 96.7652, 0.3478,  
0.3870

# Harmonies

## Analogous

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



42.0048, 0.2771, 0.3132



42.0048, 0.2800, 0.3016



42.0048, 0.2914, 0.2975

# Triad

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



42.0048, 0.2800, 0.3016



42.0048, 0.3428, 0.3272



42.0048, 0.3158, 0.3587

# Complementary

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



42.0048, 0.2800, 0.3016



44.7229, 0.3491, 0.3549

# 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.



42.0048, 0.3337, 0.3620



42.0048, 0.2800, 0.3016



42.0048, 0.3497, 0.3431

# Square

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



42.0048, 0.2800, 0.3016



42.0048, 0.3277, 0.3122



42.0048, 0.3463, 0.3559



42.0048, 0.2974, 0.3467



# Rectangle

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



42.0048, 0.2800, 0.3016



42.0048, 0.3026, 0.2993



42.0048, 0.3463, 0.3559



42.0048, 0.3221, 0.3609

# Sweetspot

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



42.0065, 0.2800, 0.3016



92.5559, 0.3034, 0.3217



49.5253, 0.2961, 0.3580



19.6426, 0.3024, 0.3208



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

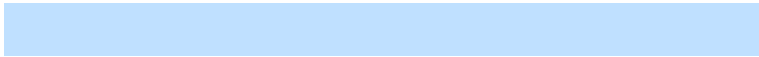


# Same Dimension

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



42.0065, 0.2800, 0.3016



71.6350, 0.2728, 0.2950



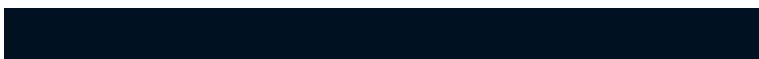
34.5970, 0.2781, 0.2726



10.5842, 0.2984, 0.3175



8.6720, 0.1789, 0.1641



0.5123, 0.1900, 0.2038



# Inverse Universe

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



38.2915, 0.3336, 0.3019



64.0120, 0.3391, 0.2958



53.2678, 0.3441, 0.3798



10.1623, 0.3210, 0.3172



8.1577, 0.4880, 0.2462

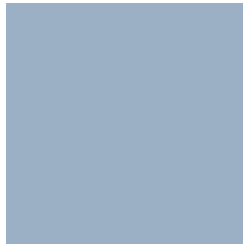


0.3664, 0.4410, 0.2203



# Previews

## White Background



This preview shows how the Yxy color 42.0048, 0.2800, 0.3016 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

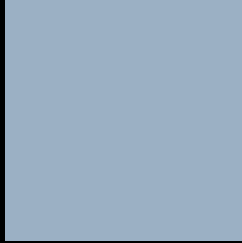
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.0048, 0.2800, 0.3016 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

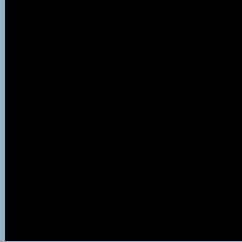
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

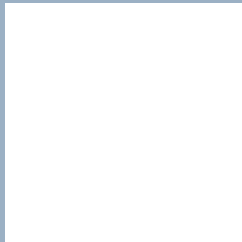
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.0048, 0.2800, 0.3016**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.0048, 0.2800, 0.3016.



This preview shows how white text looks on a background with the Yxy color 42.0048, 0.2800, 0.3016.

# 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

42.0048, 0.2800, 0.3016

### Protanopia

41.9014, 0.2941, 0.3009

### Deuteranopia

41.8721, 0.2978, 0.2925



## Tritanopia

42.0759, 0.2829, 0.3096

# Trichromacy



## Original Color

42.0048, 0.2800, 0.3016

## Protanomaly

41.7815, 0.2893, 0.3007

## Deuteranomaly

42.0823, 0.2911, 0.2958

## Tritanomaly

42.1646, 0.2815, 0.3069

# Monochromacy



## Original Color

42.0048, 0.2800, 0.3016

## Achromatopsia

41.2543, 0.3127, 0.3290

## Achromatomaly

41.3303, 0.3001, 0.3180

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.0048, 0.2800, 0.3016 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(155, 176, 196)` looks like.

```
.text, #text, p{  
    color:rgb(155, 176, 196)  
}
```

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(155, 176, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(155, 176, 196) }
```

## Border

The CSS property to change the border of an element to Yxy 42.0048, 0.2800, 0.3016 is called "border". The border property can be set on classes, ids or directly on the HTML element.

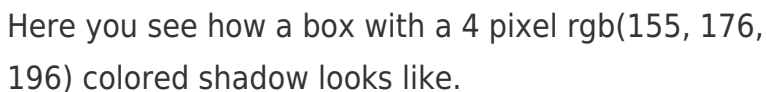
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(155, 176, 196) }
```

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

```
.border{ border-color:rgb(155, 176, 196) }
```

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



Here you see how a box with a 4 pixel `rgb(155, 176, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(155, 176, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(155, 176, 196);  
box-shadow:4px 4px 4px 4px rgb(155, 176,  
196) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.0048, 0.2800, 0.3016 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(155, 176, 196) }
```

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

```
.background{ background-color: rgb(155,  
176, 196) }
```

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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