

# Converting Colors

$Y_{xy}(42.3502, 0.2681, 0.3123)$

Have a look what the booklet for  
Yxy(42.3502, 0.2681, 0.3123)  
contains.

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# Color

**Yxy(42.4570, 0.2682, 0.3133)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	87B6C1
RGB	135, 182, 193
RGB Percent	53%, 71%, 76%
CMY	0.4705, 0.2863, 0.2433
CMYK	0.30, 0.06, 0.00, 0.24
HSL	191°, 32%, 64%
HSV	191°, 30%, 76%
XYZ	36.3453, 42.4570, 56.7132
YIQ	169.2010, -31.5430, -6.5430

# Conversions

## Conversions Part 2

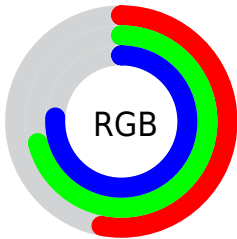
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	135, 161, 193
Decimal	8894145
CIE <sub>Lab</sub>	71.18, -12.88, -10.60
CIE <sub>LCh</sub>	71, 16.681, 219.451
Yxy	42.4570, 0.2682, 0.3133
Android (android.graphics.Color)	4287084225 (0xFF87B6C1)
YUV	169.2010, 11.7329, -29.9943
Hunter-Lab	65.1590, -14.4623, -5.9936

# Details

The Yxy color **42.4570, 0.2682, 0.3133** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **33.6395, 0.3747, 0.3441**, and the grayscale version is **39.7358, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.9358, 0.2767, 0.3169**, and **19.4330, 0.2552, 0.3070** is the 20% darker color. If you saturate the color by 10%, you get **39.5234, 0.2548, 0.3072**, and if you desaturate by 10%, it is **45.7232, 0.2825, 0.3190**.

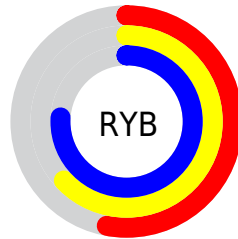
# Distribution



Red (53%)

Green (71%)

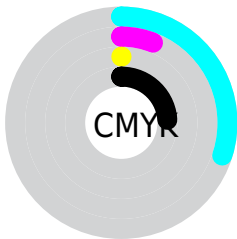
Blue (76%)



Red (53%)

Yellow (63%)

Blue (76%)

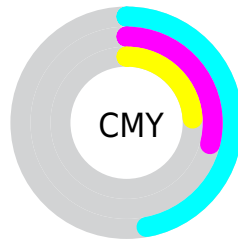


Cyan (30%)

Magenta (6%)

Yellow (0%)

Black (24%)



Cyan (47%)

Magenta (29%)

Yellow (24%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.4570, 0.2682, 0.3133 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 42.4570, 0.2682, 0.3133 by changing the saturation by 10% instead.



■ 42.4570, 0.2682,  
0.3133

■ 42.4570, 0.2682,  
0.3133

■ 356.3739, 0.2905,  
0.3216

■ 29.4593, 0.2626,  
0.3111

■ 78.8908, 0.2763,  
0.3164

■ 19.4285, 0.2555,  
0.3082

■ 103.0957, 0.2793,  
0.3176

■ 11.9803, 0.2461,  
0.3041

■ 131.8051, 0.2819,  
0.3185

■ 6.7303, 0.2329,  
0.2982

■ 165.4035, 0.2841,  
0.3193

■ 3.2940, 0.2135,  
0.2888

■ 204.2751, 0.2860,  
0.3200

■ 1.2871, 0.1823,  
0.2719

■ 248.8045, 0.2877,

■ 0.1312, 0.0000,

0.3206

0.1292

299.3759, 0.2892,  
0.3211

0.0000, 0.0000,  
0.0000

42.4570, 0.2682,  
0.3133

42.4570, 0.2682,  
0.3133

39.5234, 0.2548,  
0.3072

45.7232, 0.2825,  
0.3190

36.9012, 0.2427,  
0.3009

49.3316, 0.2974,  
0.3242

34.5748, 0.2320,  
0.2942

53.2977, 0.3127,  
0.3290

32.5247, 0.2231,  
0.2874

57.6346, 0.3280,  
0.3333

30.7288, 0.2161,  
0.2806

62.3546, 0.3431,  
0.3372

■ 29.1613, 0.2111,  
0.2738

■ 67.4693, 0.3580,  
0.3406

■ 27.7749, 0.2075,  
0.2670

■ 70.0116, 0.3604,  
0.3442

■ 71.8085, 0.3595,  
0.3479

■ 73.6466, 0.3587,  
0.3516

# Harmonies

## Analogous

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



42.4570, 0.2788, 0.3355



42.4570, 0.2682, 0.3133



42.4570, 0.2689, 0.2966

# Triad

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



42.4570, 0.2682, 0.3133



42.4570, 0.3259, 0.3035



42.4570, 0.3445, 0.3705

# Complementary

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



42.4570, 0.2682, 0.3133



33.6395, 0.3747, 0.3441

# 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.



42.4570, 0.3582, 0.3598



42.4570, 0.2682, 0.3133



42.4570, 0.3474, 0.3214

# Square

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



42.4570, 0.2682, 0.3133



42.4570, 0.3015, 0.2918



42.4570, 0.3594, 0.3418



42.4570, 0.3225, 0.3698



# Rectangle

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



42.4570, 0.2682, 0.3133



42.4570, 0.2758, 0.2905



42.4570, 0.3594, 0.3418



42.4570, 0.3503, 0.3681

# Sweetspot

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



42.4587, 0.2682, 0.3133



88.9878, 0.2988, 0.3247



45.3441, 0.3013, 0.3993



18.8770, 0.2966, 0.3239



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

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



42.4587, 0.2682, 0.3133



72.5677, 0.2593, 0.3094



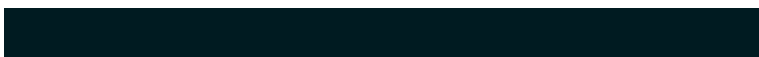
31.9074, 0.2635, 0.2706



11.0938, 0.2984, 0.3245



18.5904, 0.2078, 0.2679



0.8888, 0.2119, 0.2830



# Inverse Universe

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



32.0462, 0.3271, 0.2681



51.3008, 0.3310, 0.2548



43.5962, 0.3639, 0.3812



10.2138, 0.3166, 0.3105



9.1589, 0.3748, 0.1838

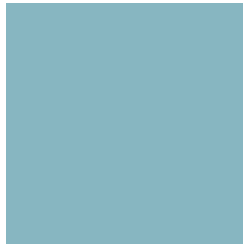


0.4044, 0.3607, 0.1761



# Previews

## White Background



This preview shows how the Yxy color 42.4570, 0.2682, 0.3133 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

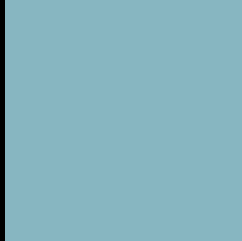
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.4570, 0.2682, 0.3133 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

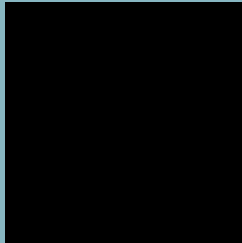
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

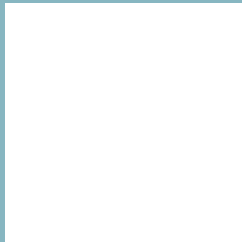
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.4570, 0.2682, 0.3133**

## Background



This preview shows how black text looks on a background with the Yxy color 42.4570, 0.2682, 0.3133.

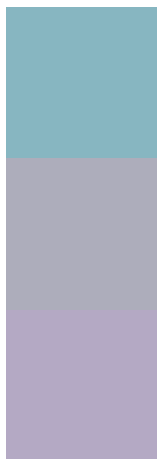


This preview shows how white text looks on a background with the Yxy color 42.4570, 0.2682, 0.3133.

# 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

42.4570, 0.2682, 0.3133

### Protanopia

42.3592, 0.3014, 0.3103

### Deuteranopia

42.0648, 0.3003, 0.2939



## Tritanopia

42.6757, 0.2669, 0.3092

# Trichromacy



## Original Color

42.4570, 0.2682, 0.3133

## Protanomaly

42.0957, 0.2883, 0.3111

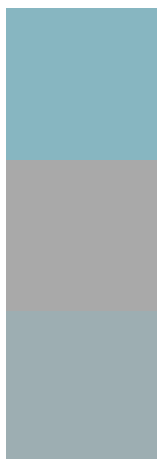
## Deuteranomaly

42.1047, 0.2878, 0.3007

## Tritanomaly

42.6303, 0.2676, 0.3105

# Monochromacy



## Original Color

42.4570, 0.2682, 0.3133

## Achromatopsia

39.6755, 0.3127, 0.3290

## Achromatomaly

40.6546, 0.2949, 0.3233

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.4570, 0.2682, 0.3133 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(135, 182, 193)` looks like.

```
.text, #text, p{  
    color:rgb(135, 182, 193)  
}
```

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(135, 182, 193) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 182, 193) }
```

## Border

The CSS property to change the border of an element to Yxy 42.4570, 0.2682, 0.3133 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(135, 182, 193) }
```

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

```
.border{ border-color:rgb(135, 182, 193) }
```

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

Here you see how a box with a 4 pixel rgb(135, 182, 193) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 182, 193); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 182, 193);  
box-shadow:4px 4px 4px 4px rgb(135, 182,  
193) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.4570, 0.2682, 0.3133 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 182, 193) }
```

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

```
.background{ background-color: rgb(135,  
182, 193) }
```

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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