

# Converting Colors

$Y_{xy}(41.1472, 0.2530, 0.2945)$

Have a look what the booklet for  
Yxy(41.1472, 0.2530, 0.2945)  
contains.

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# Color

**Yxy(41.2131, 0.2531, 0.2948)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7BB4CC
RGB	123, 180, 204
RGB Percent	48%, 71%, 80%
CMY	0.5178, 0.2941, 0.2001
CMYK	0.40, 0.12, 0.00, 0.20
HSL	198°, 44%, 64%
HSV	198°, 40%, 80%
XYZ	35.3834, 41.2131, 63.2037
YIQ	165.6930, -41.6760, -4.6200

# Conversions

## Conversions Part 2

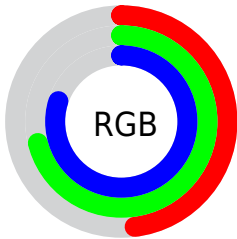
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	123, 156, 204
Decimal	8107212
CIE Lab	70.32, -12.40, -18.00
CIE LCh	70, 21.860, 235.429
Yxy	41.2131, 0.2531, 0.2948
Android (android.graphics.Color)	4286297292 (0xFF7BB4CC)
YUV	165.6930, 18.8854, -37.4418
Hunter-Lab	64.1974, -13.9624, -13.4340

# Details

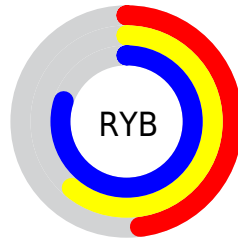
The Yxy color **41.2131, 0.2531, 0.2948** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **35.1132, 0.3991, 0.3603**, and the grayscale version is **37.8973, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.6759, 0.2667, 0.3079**, and **18.6460, 0.2362, 0.2833** is the 20% darker color. If you saturate the color by 10%, you get **37.4799, 0.2397, 0.2845**, and if you desaturate by 10%, it is **45.3690, 0.2675, 0.3045**.

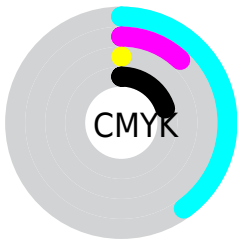
# Distribution



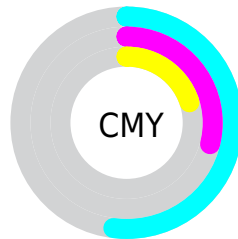
- Red (48%)
- Green (71%)
- Blue (80%)



- Red (48%)
- Yellow (61%)
- Blue (80%)



- Cyan (40%)
- Magenta (12%)
- Yellow (0%)
- Black (20%)



- Cyan (52%)
- Magenta (29%)
- Yellow (20%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.2131, 0.2531, 0.2948 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 41.2131, 0.2531, 0.2948 by changing the saturation by 10% instead.



■ 41.2131, 0.2531,  
0.2948

■ 41.2131, 0.2531,  
0.2948

■ 351.2105, 0.2828,  
0.3126

■ 28.4856, 0.2457,  
0.2901

■ 77.0073, 0.2639,  
0.3014

■ 18.6921, 0.2364,  
0.2841

■ 100.8428, 0.2679,  
0.3039

■ 11.4480, 0.2240,  
0.2758

■ 129.1498, 0.2714,  
0.3059

■ 6.3690, 0.2070,  
0.2640

■ 162.3126, 0.2743,  
0.3077

■ 3.0707, 0.1825,  
0.2460

■ 200.7157, 0.2769,  
0.3092

■ 1.1688, 0.1446,  
0.2157

■ 244.7434, 0.2791,

■ 0.0360, 0.0000,

0.3105

0.0262

294.7802, 0.2811,  
0.3116

0.0000, 0.0000,  
0.0000

41.2131, 0.2531,  
0.2948

41.2131, 0.2531,  
0.2948

37.4799, 0.2397,  
0.2845

45.3690, 0.2675,  
0.3045

34.1437, 0.2275,  
0.2737

49.9620, 0.2825,  
0.3135

31.1828, 0.2171,  
0.2626

55.0117, 0.2978,  
0.3217

28.5711, 0.2085,  
0.2514

60.5346, 0.3132,  
0.3292

26.2776, 0.2019,  
0.2402

66.5467, 0.3283,  
0.3359

■ 24.2480, 0.1971,  
0.2292

■ 73.0628, 0.3430,  
0.3419

■ 24.1919, 0.1969,  
0.2289

■ 77.9993, 0.3491,  
0.3476

■ 81.2681, 0.3479,  
0.3536

■ 84.6528, 0.3468,  
0.3595

# Harmonies

## Analogous

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



41.2131, 0.2591, 0.3210



41.2131, 0.2531, 0.2948



41.2131, 0.2620, 0.2795

# Triad

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



41.2131, 0.2531, 0.2948



41.2131, 0.3464, 0.3072



41.2131, 0.3398, 0.3860

# Complementary

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



41.2131, 0.2531, 0.2948



35.1132, 0.3991, 0.3603

# 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.



41.2131, 0.3650, 0.3786



41.2131, 0.2531, 0.2948



41.2131, 0.3693, 0.3327

# Square

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



41.2131, 0.2531, 0.2948



41.2131, 0.3147, 0.2874



41.2131, 0.3761, 0.3586



41.2131, 0.3082, 0.3763



# Rectangle

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



41.2131, 0.2531, 0.2948



41.2131, 0.2754, 0.2766



41.2131, 0.3761, 0.3586



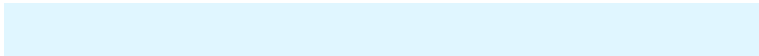
41.2131, 0.3493, 0.3853

# Sweetspot

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



41.2147, 0.2531, 0.2948



89.0099, 0.2941, 0.3198



49.4583, 0.2929, 0.4147



18.8107, 0.2921, 0.3187



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

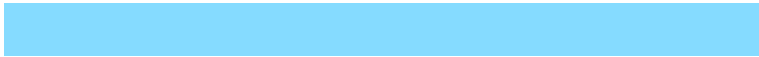


# Same Dimension

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



41.2147, 0.2531, 0.2948



62.7242, 0.2411, 0.2857



27.4774, 0.2439, 0.2350



12.1446, 0.2983, 0.3220



15.3984, 0.1974, 0.2304



0.9223, 0.2033, 0.2520



# Inverse Universe

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



30.2895, 0.3425, 0.2580



43.0288, 0.3517, 0.2428



49.5627, 0.3794, 0.4078



11.3450, 0.3182, 0.3128



9.3575, 0.4122, 0.2044

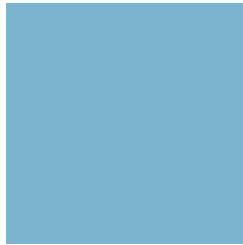


0.4957, 0.3903, 0.1924



# Previews

## White Background



This preview shows how the Yxy color 41.2131, 0.2531, 0.2948 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

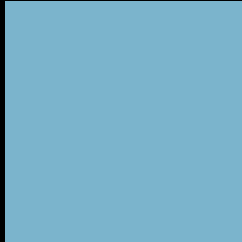
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 41.2131, 0.2531, 0.2948 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

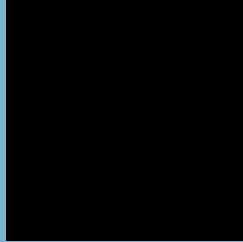
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 41.2131, 0.2531, 0.2948**

## **Background**



This preview shows how black text looks on a background with the Yxy color 41.2131, 0.2531, 0.2948.



This preview shows how white text looks on a background with the Yxy color 41.2131, 0.2531, 0.2948.

# 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

41.2131, 0.2531, 0.2948

### Protanopia

40.8877, 0.2877, 0.2928

### Deuteranopia

41.0563, 0.2834, 0.2781



## Tritanopia

41.0982, 0.2569, 0.3071

# Trichromacy



## Original Color

41.2131, 0.2531, 0.2948

## Protanomaly

40.9263, 0.2732, 0.2932

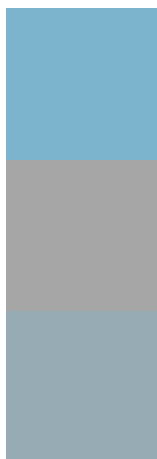
## Deuteranomaly

40.7336, 0.2711, 0.2829

## Tritanomaly

41.3088, 0.2557, 0.3030

# Monochromacy



## Original Color

41.2131, 0.2531, 0.2948

## Achromatopsia

38.1326, 0.3127, 0.3290

## Achromatomaly

38.9051, 0.2874, 0.3160

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.2131, 0.2531, 0.2948 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(123, 180, 204)` looks like.

```
.text, #text, p{  
    color:rgb(123, 180, 204)  
}
```

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(123, 180, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 180, 204) }
```

## Border

The CSS property to change the border of an element to Yxy 41.2131, 0.2531, 0.2948 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(123, 180, 204) }
```

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

```
.border{ border-color:rgb(123, 180, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 180, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 180, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 180, 204);  
box-shadow:4px 4px 4px 4px rgb(123, 180,  
204) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.2131, 0.2531, 0.2948 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 180, 204) }
```

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

```
.background{ background-color: rgb(123,  
180, 204) }
```

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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