

# Converting Colors

$Yxy(42.5867, 0.2211, 0.2810)$

Have a look what the booklet for  
Yxy(42.5867, 0.2211, 0.2810)  
contains.

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# Color

**Yxy(42.3986, 0.2208, 0.2801)**

# Conversions

## Conversions Part 1

Format	Color
Hex	42BCDE
RGB	66, 188, 222
RGB Percent	26%, 74%, 87%
CMY	0.7408, 0.2628, 0.1293
CMYK	0.70, 0.15, 0.00, 0.13
HSL	193°, 70%, 56%
HSV	193°, 70%, 87%
XYZ	33.4224, 42.3986, 75.5485
YIQ	155.3980, -83.6260, -15.2900

# Conversions

## Conversions Part 2

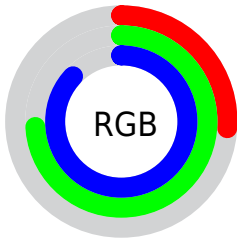
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	66, 134, 222
Decimal	4373726
CIE Lab	71.14, -22.71, -26.81
CIE LCh	71, 35.135, 229.733
Yxy	42.3986, 0.2208, 0.2801
Android (android.graphics.Color)	4282563806 (0xFF42BCDE)
YUV	155.3980, 32.8348, -78.4020
Hunter-Lab	65.1142, -22.3278, -23.2111

# Details

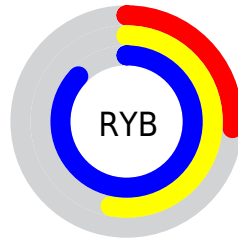
The Yxy color **42.3986, 0.2208, 0.2801** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted azure. A complement of this color would be **25.0699, 0.5181, 0.3639**, and the grayscale version is **32.8566, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.8269, 0.2465, 0.3161**, and **20.1180, 0.2075, 0.2669** is the 20% darker color. If you saturate the color by 10%, you get **39.7355, 0.2135, 0.2720**, and if you desaturate by 10%, it is **45.4336, 0.2300, 0.2881**.

# Distribution



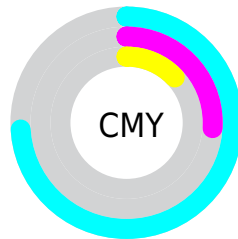
- Red (26%)
- Green (74%)
- Blue (87%)



- Red (26%)
- Yellow (53%)
- Blue (87%)



- Cyan (70%)
- Magenta (15%)
- Yellow (0%)
- Black (13%)




- Cyan (74%)
- Magenta (26%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.3986, 0.2208, 0.2801 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 42.3986, 0.2208, 0.2801 by changing the saturation by 10% instead.





 42.3986, 0.2208,  
0.2801


 42.3986, 0.2208,  
0.2801


356.1326, 0.2655,  
0.3058


 29.4135, 0.2102,  
0.2734


 78.8025, 0.2367,  
0.2897

 19.3939, 0.1969,  
0.2647


 102.9902, 0.2428,  
0.2932

 11.9552, 0.1799,  
0.2530


 131.6808, 0.2479,  
0.2962

 6.7132, 0.1576,  
0.2366

 165.2589, 0.2524,  
0.2987

 3.2834, 0.1276,  
0.2123

204.1087, 0.2563,  
0.3009

 1.2814, 0.0844,  
0.1749

248.6146, 0.2598,

 0.1267, 0.0000,

0.3027

0.0494

299.1611, 0.2628,  
0.3044

0.0000, 0.0000,  
0.0000

42.3986, 0.2208,  
0.2801

42.3986, 0.2208,  
0.2801

39.7355, 0.2135,  
0.2720

45.4336, 0.2300,  
0.2881

37.4022, 0.2082,  
0.2640

48.8674, 0.2410,  
0.2959

35.3785, 0.2045,  
0.2562

52.7295, 0.2536,  
0.3034

57.0447, 0.2673,  
0.3105

61.8358, 0.2819,  
0.3172

■ 67.1240, 0.2970,  
0.3233

■ 72.9289, 0.3124,  
0.3289

■ 79.2692, 0.3277,  
0.3339

■ 84.0301, 0.3352,  
0.3386

# Harmonies

## Analogous

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



42.3986, 0.2334, 0.3238



42.3986, 0.2208, 0.2801



42.3986, 0.2299, 0.2544

# Triad

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



42.3986, 0.2208, 0.2801



42.3986, 0.3569, 0.2883



42.3986, 0.3627, 0.4202

# Complementary

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



42.3986, 0.2208, 0.2801



25.0699, 0.5181, 0.3639

# 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.



42.3986, 0.4002, 0.4007



42.3986, 0.2208, 0.2801



42.3986, 0.3981, 0.3252

# Square

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



42.3986, 0.2208, 0.2801



42.3986, 0.3052, 0.2611



42.3986, 0.4141, 0.3653



42.3986, 0.3136, 0.4120



# Rectangle

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



42.3986, 0.2208, 0.2801



42.3986, 0.2475, 0.2485



42.3986, 0.4141, 0.3653



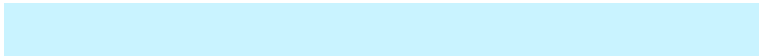
42.3986, 0.3772, 0.4163

# Sweetspot

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



42.4001, 0.2208, 0.2801



83.9872, 0.2805, 0.3166



54.3374, 0.2896, 0.5130



17.5756, 0.2763, 0.3148



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.



42.4001, 0.2208, 0.2801



52.9173, 0.2109, 0.2685



17.6502, 0.1911, 0.1603



15.0380, 0.2982, 0.3238



21.1784, 0.2048, 0.2574



1.5953, 0.2083, 0.2697



# Inverse Universe

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



23.0731, 0.3608, 0.2022



27.3981, 0.3733, 0.1914



47.7096, 0.4409, 0.4475



13.8817, 0.3171, 0.3109



11.0460, 0.3849, 0.1894

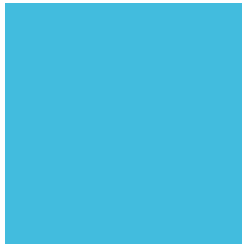


0.7785, 0.3731, 0.1829



# Previews

## White Background



This preview shows how the Yxy color 42.3986, 0.2208, 0.2801 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

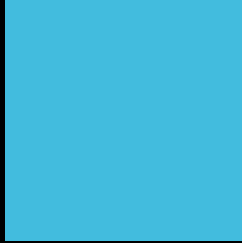
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.3986, 0.2208, 0.2801 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 42.3986, 0.2208, 0.2801**

## Background



This preview shows how black text looks on a background with the Yxy color 42.3986, 0.2208, 0.2801.



This preview shows how white text looks on a background with the Yxy color 42.3986, 0.2208, 0.2801.

# 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

42.3986, 0.2208, 0.2801

### Protanopia

41.6715, 0.2767, 0.2778

### Deuteranopia

41.8175, 0.2636, 0.2575



## Tritanopia

42.5586, 0.2261, 0.3064

# Trichromacy



**Original Color**

42.3986, 0.2208, 0.2801

**Protanomaly**

40.8885, 0.2497, 0.2777

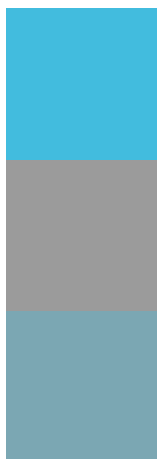
**Deuteranomaly**

41.3161, 0.2424, 0.2641

**Tritanomaly**

42.5410, 0.2241, 0.2964

# Monochromacy



**Original Color**

42.3986, 0.2208, 0.2801

**Achromatopsia**

32.7778, 0.3127, 0.3290

**Achromatomaly**

35.1031, 0.2664, 0.3105

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.3986, 0.2208, 0.2801 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(66, 188, 222)` looks like.

```
.text, #text, p{  
    color:rgb(66, 188, 222)  
}
```

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(66, 188, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 188, 222) }
```

## Border

The CSS property to change the border of an element to Yxy 42.3986, 0.2208, 0.2801 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(66, 188, 222) }
```

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

```
.border{ border-color:rgb(66, 188, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(66, 188, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 188, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(66, 188, 222);  
box-shadow:4px 4px 4px 4px rgb(66, 188,  
222) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.3986, 0.2208, 0.2801 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 188, 222) }
```

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

```
.background{ background-color: rgb(66, 188,  
222) }
```

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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