

# Converting Colors

$Y_{xy}(41.5130, 0.2298, 0.2670)$

Have a look what the booklet for  
Yxy(41.5130, 0.2298, 0.2670)  
contains.

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# Color

**Yxy(41.7136, 0.2301, 0.2680)**

# Conversions

## Conversions Part 1

Format	Color
Hex	65B6E2
RGB	101, 182, 226
RGB Percent	40%, 71%, 89%
CMY	0.6043, 0.2862, 0.1137
CMYK	0.55, 0.19, 0.00, 0.11
HSL	201°, 68%, 64%
HSV	201°, 55%, 89%
XYZ	35.8145, 41.7136, 78.1196
YIQ	162.7970, -62.4000, -3.4880

# Conversions

## Conversions Part 2

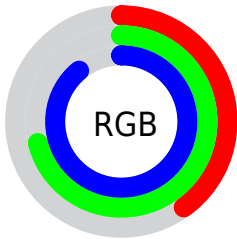
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	101, 150, 226
Decimal	6665954
CIELab	70.67, -12.45, -29.61
CIElCh	71, 32.120, 247.195
Yxy	41.7136, 0.2301, 0.2680
Android (android.graphics.Color)	4284856034 (0xFF65B6E2)
YUV	162.7970, 31.1591, -54.1960
Hunter-Lab	64.5861, -14.0430, -26.5035

# Details

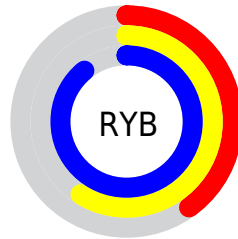
The Yxy color **41.7136, 0.2301, 0.2680** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **37.3268, 0.4456, 0.3796**, and the grayscale version is **36.3883, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.8427, 0.2578, 0.3097**, and **18.9641, 0.2079, 0.2490** is the 20% darker color. If you saturate the color by 10%, you get **37.4227, 0.2181, 0.2546**, and if you desaturate by 10%, it is **46.5509, 0.2436, 0.2809**.

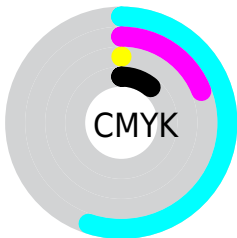
# Distribution



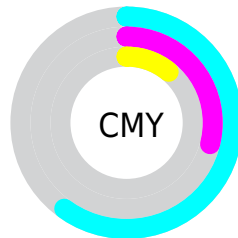
- Red (40%)
- Green (71%)
- Blue (89%)



- Red (40%)
- Yellow (59%)
- Blue (89%)



- Cyan (55%)
- Magenta (19%)
- Yellow (0%)
- Black (11%)



- Cyan (60%)
- Magenta (29%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.7136, 0.2301, 0.2680 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 41.7136, 0.2301, 0.2680 by changing the saturation by 10% instead.



■ 41.7136, 0.2301,  
0.2680

■ 41.7136, 0.2301,  
0.2680

■ 353.2943, 0.2706,  
0.2991

■ 28.8771, 0.2204,  
0.2602

■ 77.7660, 0.2446,  
0.2794

■ 18.9879, 0.2082,  
0.2501

■ 101.7507, 0.2501,  
0.2836

■ 11.6615, 0.1925,  
0.2369

■ 130.2202, 0.2548,  
0.2872

■ 6.5136, 0.1716,  
0.2187

■ 163.5589, 0.2588,  
0.2903

■ 3.1598, 0.1432,  
0.1927

■ 202.1514, 0.2623,  
0.2930

■ 1.2157, 0.1035,  
0.1536

■ 246.3818, 0.2654,

■ 0.0745, 0.0000,

0.2953

0.0268

296.6346, 0.2682,  
0.2973

0.0000, 0.0000,  
0.0000

41.7136, 0.2301,  
0.2680

41.7136, 0.2301,  
0.2680

37.4227, 0.2181,  
0.2546

46.5509, 0.2436,  
0.2809

33.6402, 0.2078,  
0.2410

51.9596, 0.2582,  
0.2930

30.3296, 0.1996,  
0.2274

57.9684, 0.2734,  
0.3044

27.4443, 0.1935,  
0.2141

64.6025, 0.2889,  
0.3148

26.2140, 0.1911,  
0.2080

71.8852, 0.3045,  
0.3243

79.8385, 0.3198,  
0.3328

87.6954, 0.3318,  
0.3405

92.4167, 0.3308,  
0.3482

97.3448, 0.3299,  
0.3558

# Harmonies

## Analogous

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



41.7136, 0.2301, 0.2995



41.7136, 0.2301, 0.2680



41.7136, 0.2500, 0.2547

# Triad

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



41.7136, 0.2301, 0.2680



41.7136, 0.3775, 0.3107



41.7136, 0.3333, 0.4116

# Complementary

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



41.7136, 0.2301, 0.2680



37.3268, 0.4456, 0.3796

# 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.



41.7136, 0.3755, 0.4081



41.7136, 0.2301, 0.2680



41.7136, 0.4031, 0.3476

# Square

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



41.7136, 0.2301, 0.2680



41.7136, 0.3338, 0.2794



41.7136, 0.4018, 0.3831



41.7136, 0.2875, 0.3875



# Rectangle

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



41.7136, 0.2301, 0.2680



41.7136, 0.2731, 0.2559



41.7136, 0.4018, 0.3831



41.7136, 0.3484, 0.4134

# Sweetspot

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



41.7151, 0.2301, 0.2680



83.3419, 0.2862, 0.3131



59.1926, 0.2831, 0.4453



17.4530, 0.2830, 0.3110



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.



41.7151, 0.2301, 0.2680



48.6299, 0.2168, 0.2532



21.6065, 0.2109, 0.1769



14.7188, 0.2982, 0.3206



15.1850, 0.1917, 0.2101



1.2188, 0.1974, 0.2305



# Inverse Universe

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



28.8370, 0.3681, 0.2388



32.0052, 0.3843, 0.2254



61.8505, 0.4029, 0.4443



13.8495, 0.3191, 0.3139



10.4410, 0.4341, 0.2165

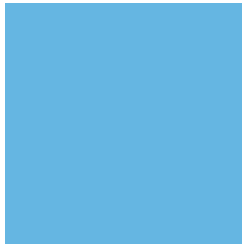


0.7405, 0.4121, 0.2044



# Previews

## White Background



This preview shows how the Yxy color 41.7136, 0.2301, 0.2680 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

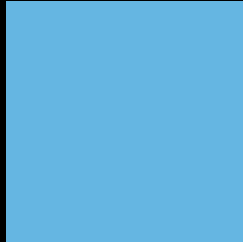
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 41.7136, 0.2301, 0.2680 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

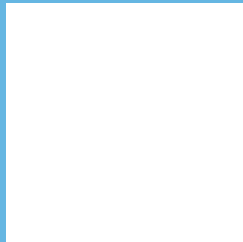
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 41.7136, 0.2301, 0.2680**

## **Background**



This preview shows how black text looks on a background with the Yxy color 41.7136, 0.2301, 0.2680.

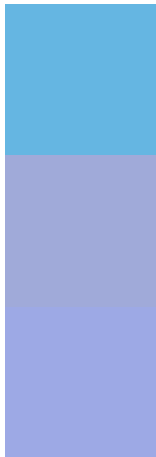


This preview shows how white text looks on a background with the Yxy color 41.7136, 0.2301, 0.2680.

# 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

41.7136, 0.2301, 0.2680

### Protanopia

41.2328, 0.2687, 0.2677

### Deuteranopia

41.2012, 0.2586, 0.2523



## Tritanopia

41.6102, 0.2396, 0.3066

# Trichromacy



## Original Color

41.7136, 0.2301, 0.2680

## Protanomaly

40.9284, 0.2526, 0.2672

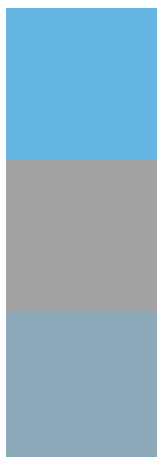
## Deuteranomaly

41.1919, 0.2467, 0.2576

## Tritanomaly

41.7840, 0.2361, 0.2927

# Monochromacy



## Original Color

41.7136, 0.2301, 0.2680

## Achromatopsia

36.6253, 0.3127, 0.3290

## Achromatomaly

37.8701, 0.2749, 0.3057

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.7136, 0.2301, 0.2680 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(101, 182, 226)` looks like.

```
.text, #text, p{  
    color:rgb(101, 182, 226)  
}
```

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(101, 182, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(101, 182, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 41.7136, 0.2301, 0.2680 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(101, 182, 226) }
```

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

```
.border{ border-color:rgb(101, 182, 226) }
```

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

Here you see how a box with a 4 pixel rgb(101, 182, 226) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(101, 182, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(101, 182, 226);  
box-shadow:4px 4px 4px 4px rgb(101, 182,  
226) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.7136, 0.2301, 0.2680 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(101, 182, 226) }
```

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

```
.background{ background-color: rgb(101,  
182, 226) }
```

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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