

# Converting Colors

$Y_{xy}(42.1875, 0.2361, 0.2748)$

Have a look what the booklet for  
Yxy(42.1875, 0.2361, 0.2748)  
contains.

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# Color

**Yxy(42.3921, 0.2362, 0.2749)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6DB7DE
RGB	109, 183, 222
RGB Percent	43%, 72%, 87%
CMY	0.5727, 0.2823, 0.1293
CMYK	0.51, 0.18, 0.00, 0.13
HSL	201°, 63%, 65%
HSV	201°, 51%, 87%
XYZ	36.4242, 42.3921, 75.3929
YIQ	165.3200, -56.6230, -3.5590

# Conversions

## Conversions Part 2

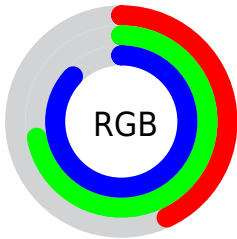
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	109, 154, 222
Decimal	7190494
CIE Lab	71.14, -12.43, -26.70
CIE LCh	71, 29.446, 245.039
Yxy	42.3921, 0.2362, 0.2749
Android (android.graphics.Color)	4285380574 (0xFF6DB7DE)
YUV	165.3200, 27.9432, -49.3926
Hunter-Lab	65.1092, -14.0824, -23.0781

# Details

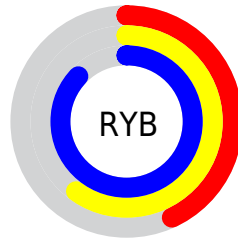
The Yxy color **42.3921, 0.2362, 0.2749** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **37.8137, 0.4315, 0.3753**, and the grayscale version is **37.6690, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.1685, 0.2614, 0.3110**, and **19.3837, 0.2157, 0.2584** is the 20% darker color. If you saturate the color by 10%, you get **38.0836, 0.2236, 0.2620**, and if you desaturate by 10%, it is **47.2315, 0.2501, 0.2872**.

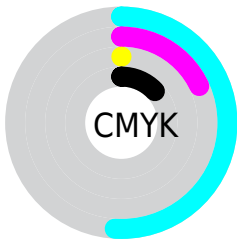
# Distribution



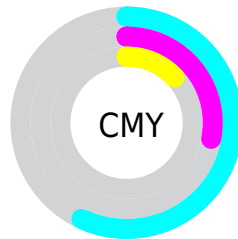
- Red (43%)
- Green (72%)
- Blue (87%)



- Red (43%)
- Yellow (60%)
- Blue (87%)



- Cyan (51%)
- Magenta (18%)
- Yellow (0%)
- Black (13%)



- Cyan (57%)
- Magenta (28%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.3921, 0.2362, 0.2749 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 42.3921, 0.2362, 0.2749 by changing the saturation by 10% instead.



■ 42.3921, 0.2362,  
0.2749

■ 42.3921, 0.2362,  
0.2749

■ 356.1058, 0.2738,  
0.3026

■ 29.4084, 0.2271,  
0.2679

■ 78.7927, 0.2496,  
0.2850

■ 19.3900, 0.2157,  
0.2589

■ 102.9784, 0.2548,  
0.2888

■ 11.9524, 0.2010,  
0.2470

■ 131.6670, 0.2591,  
0.2920

■ 6.7113, 0.1813,  
0.2305

■ 165.2428, 0.2629,  
0.2948

■ 3.2822, 0.1540,  
0.2065

■ 204.0901, 0.2661,  
0.2971

■ 1.2808, 0.1151,  
0.1696

■ 248.5935, 0.2690,

■ 0.1263, 0.0000,

0.2992

0.0495

299.1372, 0.2715,  
0.3010

0.0000, 0.0000,  
0.0000

42.3921, 0.2362,  
0.2749

42.3921, 0.2362,  
0.2749

38.0836, 0.2236,  
0.2620

47.2315, 0.2501,  
0.2872

34.2711, 0.2126,  
0.2488

52.6241, 0.2650,  
0.2988

30.9223, 0.2035,  
0.2354


58.5965, 0.2803,  
0.3095


27.9968, 0.1966,  
0.2222


65.1716, 0.2959,  
0.3193

25.6486, 0.1918,  
0.2105

72.3713, 0.3113,  
0.3282

 80.2159, 0.3264,  
0.3362

 86.9018, 0.3345,  
0.3435

 91.4261, 0.3335,  
0.3510

 96.1423, 0.3325,  
0.3583

# Harmonies

## Analogous

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



42.3921, 0.2376, 0.3050



42.3921, 0.2362, 0.2749



42.3921, 0.2534, 0.2611

# Triad

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



42.3921, 0.2362, 0.2749



42.3921, 0.3693, 0.3101



42.3921, 0.3349, 0.4045

# Complementary

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



42.3921, 0.2362, 0.2749



37.8137, 0.4315, 0.3753

# 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.



42.3921, 0.3726, 0.4002



42.3921, 0.2362, 0.2749



42.3921, 0.3941, 0.3440

# Square

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



42.3921, 0.2362, 0.2749



42.3921, 0.3290, 0.2817



42.3921, 0.3949, 0.3769



42.3921, 0.2928, 0.3843



# Rectangle

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



42.3921, 0.2362, 0.2749



42.3921, 0.2740, 0.2614



42.3921, 0.3949, 0.3769



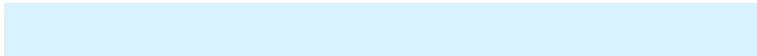
42.3921, 0.3485, 0.4057

# Sweetspot

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



42.3937, 0.2362, 0.2749



85.3175, 0.2893, 0.3153



57.6047, 0.2857, 0.4368



17.8533, 0.2860, 0.3133



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.



42.3937, 0.2362, 0.2749



51.8169, 0.2229, 0.2613



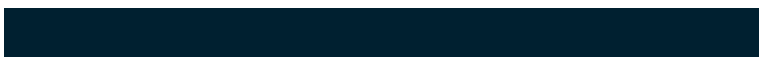
23.9117, 0.2203, 0.1938



14.7342, 0.2982, 0.3207



15.4445, 0.1923, 0.2124



1.2355, 0.1979, 0.2324



# Inverse Universe

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



29.8825, 0.3610, 0.2444



34.5009, 0.3756, 0.2301



59.4388, 0.3969, 0.4345



13.8511, 0.3190, 0.3138



10.4672, 0.4315, 0.2151

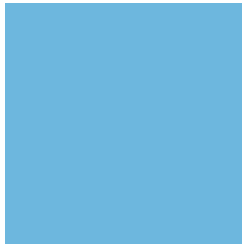


0.7422, 0.4101, 0.2033



# Previews

## White Background



This preview shows how the Yxy color 42.3921, 0.2362, 0.2749 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

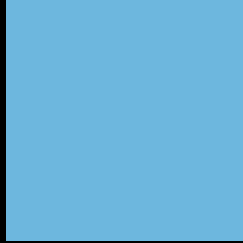
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.3921, 0.2362, 0.2749 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

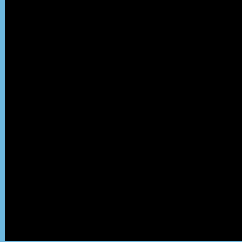
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.3921, 0.2362, 0.2749**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.3921, 0.2362, 0.2749.

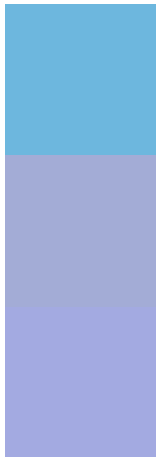


This preview shows how white text looks on a background with the Yxy color 42.3921, 0.2362, 0.2749.

# 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**

42.3921, 0.2362, 0.2749

**Protanopia**

42.1466, 0.2733, 0.2742

**Deuteranopia**

41.9722, 0.2657, 0.2589



## Tritanopia

42.6297, 0.2442, 0.3070

# Trichromacy



**Original Color**

42.3921, 0.2362, 0.2749

**Protanomaly**

41.9001, 0.2575, 0.2740

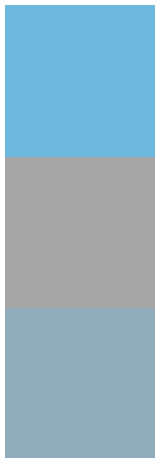
**Deuteranomaly**

41.8814, 0.2531, 0.2643

**Tritanomaly**

42.7245, 0.2417, 0.2960

# Monochromacy



**Original Color**

42.3921, 0.2362, 0.2749

**Achromatopsia**

37.6262, 0.3127, 0.3290

**Achromatomaly**

39.0700, 0.2790, 0.3089

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.3921, 0.2362, 0.2749 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(109, 183, 222)` looks like.

```
.text, #text, p{  
    color:rgb(109, 183, 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(109, 183, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(109, 183, 222) }
```

## Border

The CSS property to change the border of an element to Yxy 42.3921, 0.2362, 0.2749 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(109, 183, 222) }
```

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

```
.border{ border-color:rgb(109, 183, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(109, 183, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(109, 183, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(109, 183, 222);  
box-shadow:4px 4px 4px 4px rgb(109, 183,  
222) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.3921, 0.2362, 0.2749 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(109, 183, 222) }
```

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

```
.background{ background-color: rgb(109,  
183, 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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