

# Converting Colors

$Y_{xy}(40.2263, 0.2532, 0.2451)$

Have a look what the booklet for  
Yxy(40.2263, 0.2532, 0.2451)  
contains.

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# Color

**Yxy(40.2929, 0.2531, 0.2448)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99A7E9
RGB	153, 167, 233
RGB Percent	60%, 65%, 91%
CMY	0.4000, 0.3451, 0.0864
CMYK	0.34, 0.28, 0.00, 0.09
HSL	229°, 64%, 76%
HSV	229°, 34%, 91%
XYZ	41.6590, 40.2929, 82.6432
YIQ	170.3380, -29.5300, 17.5580

# Conversions

## Conversions Part 2

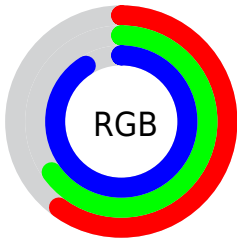
Format	Color
<a href="#">RYB</a>	<a href="#">153, 165, 233</a>
Decimal	<a href="#">10069993</a>
CIELab	<a href="#">69.68, 10.50, -34.72</a>
CIElCh	<a href="#">70, 36.271, 286.835</a>
Yxy	<a href="#">40.2929, 0.2531, 0.2448</a>
Android (android.graphics.Color)	<a href="#">4288260073 (0xFF99A7E9)</a>
YUV	<a href="#">170.3380, 30.8924, -15.2054</a>
Hunter-Lab	<a href="#">63.4767, 6.0633, -32.7587</a>

# Details

The Yxy color **40.2929, 0.2531, 0.2448** is a light color, and the websafe version is hex **9999CC**. A complement of this color would be **70.2573, 0.3691, 0.4010**, and the grayscale version is **40.2304, 0.3127, 0.3290**.

A 20% lighter version of the original color is **73.0179, 0.2836, 0.2939**, and **18.0884, 0.2361, 0.2223** is the 20% darker color. If you saturate the color by 10%, you get **31.7189, 0.2333, 0.2150**, and if you desaturate by 10%, it is **50.3586, 0.2721, 0.2725**.

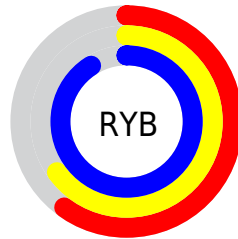
# Distribution



Red (60%)

Green (65%)

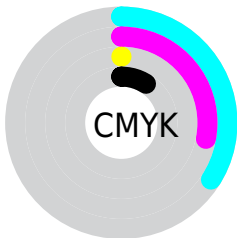
Blue (91%)



Red (60%)

Yellow (65%)

Blue (91%)

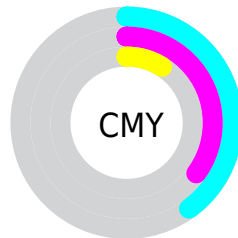


Cyan (34%)

Magenta (28%)

Yellow (0%)

Black (9%)



Cyan (40%)

Magenta (35%)

Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.2929, 0.2531, 0.2448 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 40.2929, 0.2531, 0.2448 by changing the saturation by 10% instead.



■ 40.2929, 0.2531,  
0.2448

■ 40.2929, 0.2531,  
0.2448

347.3566, 0.2832,  
0.2858

■ 27.7670, 0.2457,  
0.2350

■ 75.6093, 0.2640,  
0.2594

■ 18.1501, 0.2362,  
0.2228

■ 99.1686, 0.2681,  
0.2650

■ 11.0578, 0.2238,  
0.2071

127.1745, 0.2716,  
0.2697

■ 6.1057, 0.2070,  
0.1863

160.0114, 0.2746,  
0.2738

■ 2.9095, 0.1831,  
0.1580

198.0636, 0.2771,  
0.2774

■ 1.0847, 0.1480,  
0.1186

241.7156, 0.2794,

■ 0.0000, 0.0649,

0.2806

0.0000

291.3518, 0.2814,  
0.2834

0.0000, 0.0000,  
0.0000

40.2929, 0.2531,  
0.2448

40.2929, 0.2531,  
0.2448

31.7189, 0.2333,  
0.2150

50.3586, 0.2721,  
0.2725

24.5600, 0.2136,  
0.1842

61.9783, 0.2899,  
0.2977

18.7401, 0.1951,  
0.1537

75.2163, 0.3062,  
0.3202

14.1732, 0.1788,  
0.1253

90.1317, 0.3208,  
0.3399

10.7634, 0.1659,  
0.1009

98.6610, 0.3256,  
0.3503

■ 8.3990, 0.1572,  
0.0821

■ 7.4536, 0.1539,  
0.0741

# Harmonies

## Analogous

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



40.2929, 0.2243, 0.2526



40.2929, 0.2531, 0.2448



40.2929, 0.2996, 0.2561

# Triad

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



40.2929, 0.2531, 0.2448



40.2929, 0.4189, 0.3626



40.2929, 0.2684, 0.3818

# Complementary

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



40.2929, 0.2531, 0.2448



70.2573, 0.3691, 0.4010

# 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.



40.2929, 0.3185, 0.4188



40.2929, 0.2531, 0.2448



40.2929, 0.4070, 0.4007

# Square

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



40.2929, 0.2531, 0.2448



40.2929, 0.3992, 0.3208



40.2929, 0.3695, 0.4239



40.2929, 0.2321, 0.3284



# Rectangle

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



40.2929, 0.2531, 0.2448



40.2929, 0.3359, 0.2727



40.2929, 0.3695, 0.4239



40.2929, 0.2841, 0.3971

# Sweetspot

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



40.2944, 0.2531, 0.2448



82.7871, 0.2971, 0.3076



70.1067, 0.2718, 0.3467



17.2374, 0.2947, 0.3044



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.



40.2944, 0.2531, 0.2448



42.0349, 0.2395, 0.2245



38.1678, 0.2702, 0.2316



14.9754, 0.2980, 0.3090



4.3559, 0.1545, 0.0760



0.4658, 0.1608, 0.0989



# Inverse Universe

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



42.8911, 0.3794, 0.3132



46.0723, 0.3994, 0.3100



73.9143, 0.3456, 0.4202



15.0971, 0.3265, 0.3249



9.9325, 0.6134, 0.3153



0.7924, 0.5775, 0.2955



# Previews

## White Background



This preview shows how the Yxy color 40.2929, 0.2531, 0.2448 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

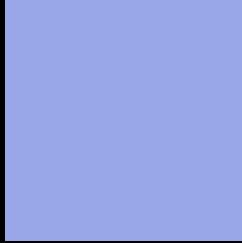
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 40.2929, 0.2531, 0.2448 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

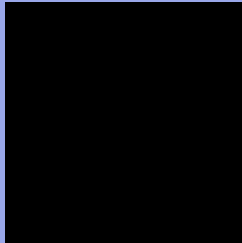
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 40.2929, 0.2531, 0.2448**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.2929, 0.2531, 0.2448.



This preview shows how white text looks on a background with the Yxy color 40.2929, 0.2531, 0.2448.

# 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

40.2929, 0.2531, 0.2448

### Protanopia

40.3725, 0.2512, 0.2456

### Deuteranopia

40.3725, 0.2512, 0.2456



## Tritanopia

40.1737, 0.2757, 0.3090

# Trichromacy



**Original Color**

40.2929, 0.2531, 0.2448

**Protanomaly**

40.4678, 0.2519, 0.2458

**Deuteranomaly**

40.4678, 0.2519, 0.2458

**Tritanomaly**

40.1159, 0.2673, 0.2836

# Monochromacy



**Original Color**

40.2929, 0.2531, 0.2448

**Achromatopsia**

40.1978, 0.3127, 0.3290

**Achromatomaly**

40.1187, 0.2890, 0.2964

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.2929, 0.2531, 0.2448 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(153, 167, 233)` looks like.

```
.text, #text, p{  
    color:rgb(153, 167, 233)  
}
```

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(153, 167, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 167, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 40.2929, 0.2531, 0.2448 is called "border". The border property can be set on classes, ids or directly on the HTML element.

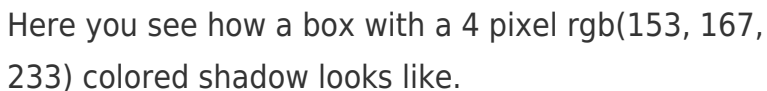
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(153, 167, 233) }
```

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

```
.border{ border-color:rgb(153, 167, 233) }
```

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



Here you see how a box with a 4 pixel `rgb(153, 167, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(153, 167, 233); -webkit-box-shadow:4px 4px 4px 4px rgb(153, 167, 233); box-shadow:4px 4px 4px 4px rgb(153, 167, 233) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.2929, 0.2531, 0.2448 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 167, 233) }
```

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

```
.background{ background-color: rgb(153,  
167, 233) }
```

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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