

# Converting Colors

$Y_{xy}(42.4074, 0.2412, 0.2253)$

Have a look what the booklet for  
Yxy(42.4074, 0.2412, 0.2253)  
contains.

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# Color

**Yxy(42.3682, 0.2412, 0.2252)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99A9FF
RGB	153, 169, 255
RGB Percent	60%, 66%, 100%
CMY	0.3999, 0.3373, 0.0000
CMYK	0.40, 0.34, 0.00, 0.00
HSL	231°, 100%, 80%
HSV	231°, 40%, 100%
XYZ	45.3784, 42.3682, 100.3893
YIQ	174.0200, -37.1420, 23.3540

# Conversions

## Conversions Part 2

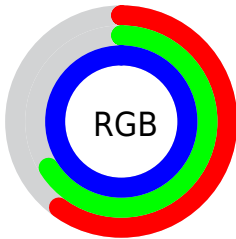
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">153, 167, 255</a>
Decimal	<a href="#">10070527</a>
CIELab	<a href="#">71.12, 15.25, -44.44</a>
CIElCh	<a href="#">71, 46.989, 288.941</a>
Yxy	<a href="#">42.3682, 0.2412, 0.2252</a>
Android (android.graphics.Color)	<a href="#">4288260607</a> ( <a href="#">0xFF99A9FF</a> )
YUV	<a href="#">174.0200, 39.9231, -18.4345</a>
Hunter-Lab	<a href="#">65.0909, 10.5330, -45.8791</a>

# Details

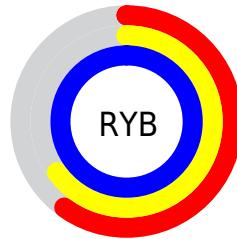
The Yxy color **42.3682, 0.2412, 0.2252** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **85.3135, 0.3786, 0.4148**, and the grayscale version is **42.1473, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.2329, 0.2843, 0.2961**, and **19.3412, 0.2218, 0.1997** is the 20% darker color. If you saturate the color by 10%, you get **32.7925, 0.2211, 0.1939**, and if you desaturate by 10%, it is **53.7935, 0.2610, 0.2550**.

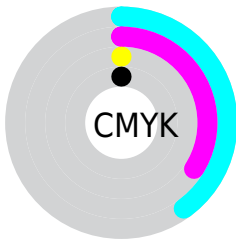
# Distribution



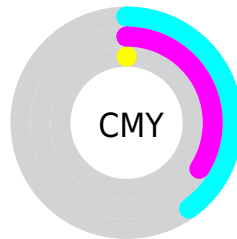
- Red (60%)
- Green (66%)
- Blue (100%)



- Red (60%)
- Yellow (65%)
- Blue (100%)



- Cyan (40%)
- Magenta (34%)
- Yellow (0%)
- Black (0%)




- Cyan (40%)
- Magenta (34%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.3682, 0.2412, 0.2252 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 42.3682, 0.2412, 0.2252 by changing the saturation by 10% instead.





 42.3682, 0.2412,  
0.2252


 42.3682, 0.2412,  
0.2252

356.0070, 0.2767,  
0.2743

 29.3897, 0.2327,  
0.2140


 78.7566, 0.2539,  
0.2423

 19.3758, 0.2220,  
0.2002


 102.9353, 0.2587,  
0.2490

 11.9422, 0.2082,  
0.1829


131.6161, 0.2628,  
0.2547

 6.7043, 0.1901,  
0.1610

165.1836, 0.2664,  
0.2596

 3.2779, 0.1655,  
0.1325

204.0220, 0.2695,  
0.2640

 1.2785, 0.1314,  
0.0957

248.5158, 0.2722,

 0.1244, 0.0801,

0.2678

0.0203

299.0493, 0.2746,  
0.2713

■ 0.0000, 0.0000,  
0.0000

■ 42.3682, 0.2412,  
0.2252

■ 42.3682, 0.2412,  
0.2252

■ 32.7925, 0.2211,  
0.1939

■ 53.7935, 0.2610,  
0.2550

■ 24.9632, 0.2016,  
0.1624

■ 67.1546, 0.2798,  
0.2825

■ 18.7742, 0.1840,  
0.1325

■ 82.5379, 0.2971,  
0.3072

■ 14.1055, 0.1695,  
0.1063

99.9997, 0.3127,  
0.3290

■ 10.8197, 0.1592,  
0.0855

■ 8.7341, 0.1531,  
0.0711

■ 8.7317, 0.1531,  
0.0711

# Harmonies

## Analogous

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



42.3682, 0.2048, 0.2318



42.3682, 0.2412, 0.2252



42.3682, 0.2999, 0.2408

# Triad

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



42.3682, 0.2412, 0.2252



42.3682, 0.4477, 0.3717



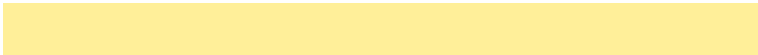
42.3682, 0.2520, 0.3928

# Complementary

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



42.3682, 0.2412, 0.2252



85.3135, 0.3786, 0.4148

# 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.



42.3682, 0.3135, 0.4440



42.3682, 0.2412, 0.2252



42.3682, 0.4283, 0.4197

# Square

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



42.3682, 0.2412, 0.2252



42.3682, 0.4262, 0.3206



42.3682, 0.3782, 0.4506



42.3682, 0.2097, 0.3219



# Rectangle

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



42.3682, 0.2412, 0.2252



42.3682, 0.3463, 0.2616



42.3682, 0.3782, 0.4506



42.3682, 0.2710, 0.4139

# Sweetspot

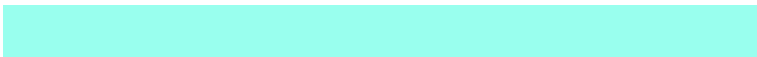
The Sweet Spot groups the original color and five complimentary colors.



42.3698, 0.2412, 0.2252



79.2752, 0.2937, 0.3024



84.4660, 0.2652, 0.3482



16.5246, 0.2915, 0.2993



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.



42.3698, 0.2412, 0.2252



34.5528, 0.2250, 0.2002



40.5811, 0.2624, 0.2132



17.8367, 0.2979, 0.3083



4.6980, 0.1536, 0.0729



0.5840, 0.1584, 0.0901



# Inverse Universe

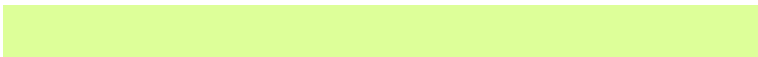
The Inverse Universe completely reimagines the original color for something new.



46.9174, 0.3982, 0.3125



40.1849, 0.4253, 0.3095



89.1917, 0.3494, 0.4369



18.0334, 0.3270, 0.3253



11.2022, 0.6184, 0.3180



1.1035, 0.5910, 0.3030



# Previews

## White Background



This preview shows how the Yxy color 42.3682, 0.2412, 0.2252 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

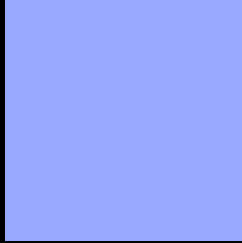
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.3682, 0.2412, 0.2252 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

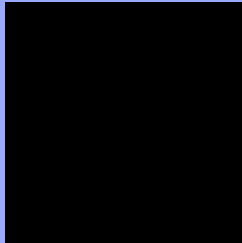
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.3682, 0.2412, 0.2252**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.3682, 0.2412, 0.2252.



This preview shows how white text looks on a background with the Yxy color 42.3682, 0.2412, 0.2252.

# 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

42.3682, 0.2412, 0.2252

### Protanopia

42.4568, 0.2373, 0.2266

### Deuteranopia

42.6183, 0.2347, 0.2292



## Tritanopia

42.3912, 0.2688, 0.3092

# Trichromacy



## Original Color

42.3682, 0.2412, 0.2252

## Protanomaly

42.3590, 0.2389, 0.2258

## Deuteranomaly

42.6805, 0.2374, 0.2286

## Tritanomaly

42.2937, 0.2577, 0.2754

# Monochromacy



## Original Color

42.3682, 0.2412, 0.2252

## Achromatopsia

42.3268, 0.3127, 0.3290

## Achromatomaly

41.9238, 0.2834, 0.2879

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.3682, 0.2412, 0.2252 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, 169, 255)` looks like.

```
.text, #text, p{  
    color:rgb(153, 169, 255)  
}
```

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, 169, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 169, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 42.3682, 0.2412, 0.2252 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, 169, 255) }
```

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

```
.border{ border-color:rgb(153, 169, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 169, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 169, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 169, 255);  
box-shadow:4px 4px 4px 4px rgb(153, 169,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.3682, 0.2412, 0.2252 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 169, 255) }
```

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

```
.background{ background-color: rgb(153,  
169, 255) }
```

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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