

# Converting Colors

$Y_{xy}(43.6431, 0.2177, 0.1866)$

Have a look what the booklet for  
Yxy(43.6431, 0.2177, 0.1866)  
contains.

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# Color

**Yxy(40.5122, 0.2356, 0.2202)**

# Conversions

Conversions Part 1	
Format	Color
Hex	91A6FF
RGB	145, 166, 255
RGB Percent	57%, 65%, 100%
CMY	0.4318, 0.3489, 0.0001
CMYK	0.43, 0.35, 0.00, 0.00
HSL	228°, 100%, 78%
HSV	228°, 43%, 100%
XYZ	43.3455, 40.5122, 100.1214
YIQ	169.8670, -41.0850, 23.2270

# Conversions

## Conversions Part 2

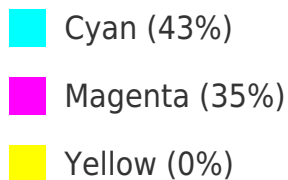
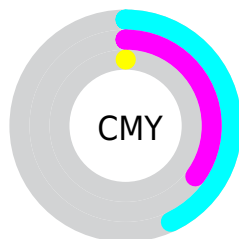
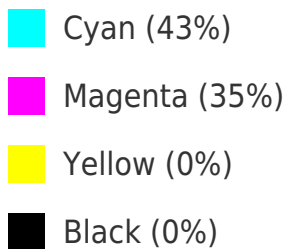
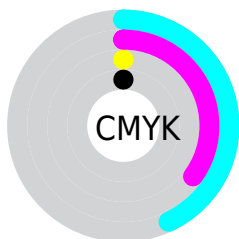
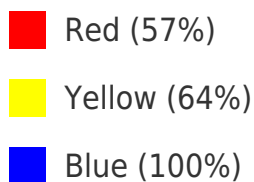
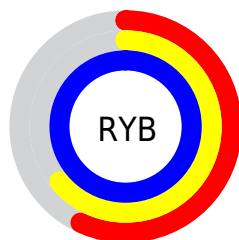
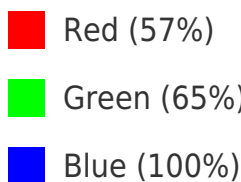
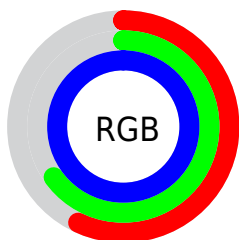
Format	Color
<a href="#">RYB</a>	<a href="#">145, 163, 255</a>
Decimal	<a href="#">9545471</a>
CIELab	<a href="#">69.83, 14.89, -46.50</a>
CIELCh	<a href="#">70, 48.824, 287.760</a>
Yxy	<a href="#">40.5122, 0.2356, 0.2202</a>
Android (android.graphics.Color)	<a href="#">4287735551</a> (0xFF91A6FF)
YUV	<a href="#">169.8670, 41.9706, -21.8084</a>
Hunter-Lab	<a href="#">63.6492, 10.1735, -48.7099</a>

# Details

The Yxy color `40.5122, 0.2356, 0.2202` is a light color, and the websafe version is hex `9999FF`. A complement of this color would be `82.0477, 0.3856, 0.4179`, and the grayscale version is `39.9236, 0.3127, 0.3290`.

A 20% lighter version of the original color is `71.6294, 0.2798, 0.2924`, and `18.1866, 0.2146, 0.1929` is the 20% darker color. If you saturate the color by 10%, you get `31.5522, 0.2160, 0.1898`, and if you desaturate by 10%, it is `51.1944, 0.2552, 0.2494`.

# Distribution





# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.5122, 0.2356, 0.2202 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 40.5122, 0.2356, 0.2202 by changing the saturation by 10% instead.





 40.5122, 0.2356,  
0.2202


 40.5122, 0.2356,  
0.2202


348.2777, 0.2739,  
0.2719

 27.9381, 0.2264,  
0.2084


 75.9428, 0.2493,  
0.2382

 18.2790, 0.2148,  
0.1939


 99.5682, 0.2545,  
0.2452

 11.1505, 0.2000,  
0.1758


127.6461, 0.2590,  
0.2512

 6.1682, 0.1806,  
0.1528

160.5610, 0.2628,  
0.2564

 2.9476, 0.1544,  
0.1232

198.6972, 0.2661,  
0.2610

 1.1044, 0.1186,  
0.0856

242.4391, 0.2691,


 0.0000, 0.0595,


0.2651


0.0000

292.1711, 0.2716,  
0.2687


 0.0000, 0.0000,  
0.0000


 40.5122, 0.2356,  
0.2202


 40.5122, 0.2356,  
0.2202


 31.5522, 0.2160,  
0.1898


 51.1944, 0.2552,  
0.2494

 24.2179, 0.1973,  
0.1595


 63.6796, 0.2741,  
0.2764

 18.4094, 0.1808,  
0.1309


 78.0486, 0.2918,  
0.3009

 14.0136, 0.1676,  
0.1059

 94.3759, 0.3079,  
0.3227

 10.8999, 0.1585,  
0.0861

99.9984, 0.3127,  
0.3290

 9.4124, 0.1544,  
0.0759

# Harmonies

## Analogous

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



40.5122, 0.1988, 0.2277



40.5122, 0.2356, 0.2202



40.5122, 0.2963, 0.2357

# Triad

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



40.5122, 0.2356, 0.2202



40.5122, 0.4549, 0.3708



40.5122, 0.2508, 0.3993

# Complementary

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



40.5122, 0.2356, 0.2202



82.0477, 0.3856, 0.4179

# 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.



40.5122, 0.3157, 0.4522



40.5122, 0.2356, 0.2202



40.5122, 0.4354, 0.4217

# Square

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



40.5122, 0.2356, 0.2202



40.5122, 0.4307, 0.3177



40.5122, 0.3834, 0.4563



40.5122, 0.2058, 0.3239



# Rectangle

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



40.5122, 0.2356, 0.2202



40.5122, 0.3450, 0.2569



40.5122, 0.3834, 0.4563



40.5122, 0.2710, 0.4215

# Sweetspot

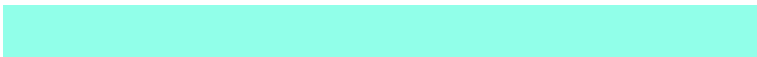
The Sweet Spot groups the original color and five complimentary colors.



40.5137, 0.2356, 0.2202



78.3319, 0.2921, 0.3013



83.3954, 0.2639, 0.3543



16.0502, 0.2883, 0.2961



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.



40.5137, 0.2356, 0.2202



32.5246, 0.2182, 0.1934



36.8921, 0.2546, 0.2020



17.9422, 0.2979, 0.3092



5.0790, 0.1550, 0.0781



0.6362, 0.1602, 0.0968



# Inverse Universe

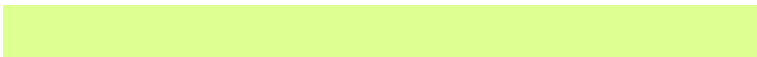
The Inverse Universe completely reimagines the original color for something new.



44.2281, 0.4043, 0.3071



37.4114, 0.4344, 0.3033



89.0673, 0.3544, 0.4448



18.0441, 0.3264, 0.3245



11.2407, 0.6100, 0.3134

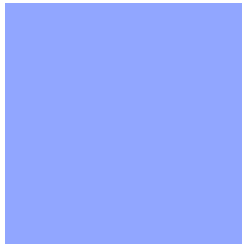


1.1088, 0.5806, 0.2972



# Previews

## White Background



This preview shows how the Yxy color 40.5122, 0.2356, 0.2202 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

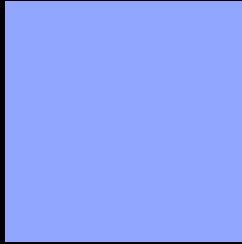
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 40.5122, 0.2356, 0.2202 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

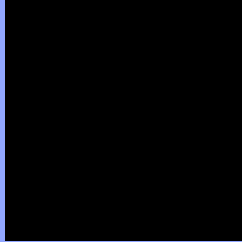
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 40.5122, 0.2356, 0.2202**

## Background



This preview shows how black text looks on a background with the Yxy color 40.5122, 0.2356, 0.2202.



This preview shows how white text looks on a background with the Yxy color 40.5122, 0.2356, 0.2202.

# 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

40.5122, 0.2356, 0.2202

### Protanopia

40.4329, 0.2329, 0.2206

### Deuteranopia

40.4372, 0.2293, 0.2229



## Tritanopia

40.6796, 0.2629, 0.3086

# Trichromacy



**Original Color**  
40.5122, 0.2356, 0.2202

**Protanomaly**  
40.6082, 0.2341, 0.2209

**Deuteranomaly**  
40.4794, 0.2319, 0.2224

**Tritanomaly**  
40.2983, 0.2517, 0.2715

# Monochromacy



**Original Color**  
40.5122, 0.2356, 0.2202

**Achromatopsia**  
40.1978, 0.3127, 0.3290

**Achromatomaly**  
40.1700, 0.2806, 0.2858

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.5122, 0.2356, 0.2202 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(145, 166, 255) looks like.

```
.text, #text, p{  
    color:rgb(145, 166, 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(145, 166, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(145, 166, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 40.5122, 0.2356, 0.2202 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(145, 166, 255) }
```

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

```
.border{ border-color:rgb(145, 166, 255) }
```

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

Here you see how a box with a 4 pixel rgb(145, 166, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(145, 166, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(145, 166, 255);  
box-shadow:4px 4px 4px 4px rgb(145, 166,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.5122, 0.2356, 0.2202 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(145, 166, 255) }
```

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

```
.background{ background-color: rgb(145,  
166, 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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