

# Converting Colors

$Y_{xy}(36.9923, 0.2463, 0.2116)$

Have a look what the booklet for  
Yxy(36.9923, 0.2463, 0.2116)  
contains.

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# Color

**Yxy(36.8731, 0.2467, 0.2115)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A198F9
RGB	161, 152, 249
RGB Percent	63%, 60%, 98%
CMY	0.3689, 0.4038, 0.0236
CMYK	0.35, 0.39, 0.00, 0.02
HSL	245°, 89%, 79%
HSV	245°, 39%, 98%
XYZ	43.0099, 36.8731, 94.4579
YIQ	165.7490, -25.7730, 32.0750

# Conversions

## Conversions Part 2

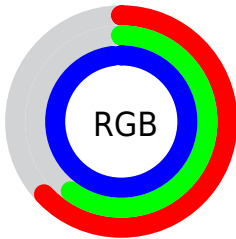
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	161, 152, 249
Decimal	10590457
CIE Lab	67.18, 25.32, -47.33
CIE LCh	67, 53.679, 298.150
Yxy	36.8731, 0.2467, 0.2115
Android (android.graphics.Color)	4288780537 (0xFFA198F9)
YUV	165.7490, 41.0427, -4.1649
Hunter-Lab	60.7232, 20.1648, -49.7222

# Details

The Yxy color **36.8731, 0.2467, 0.2115** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **88.5512, 0.3650, 0.4280**, and the grayscale version is **37.8098, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.2680, 0.2888, 0.2772**, and **16.1773, 0.2280, 0.1834** is the 20% darker color. If you saturate the color by 10%, you get **27.4813, 0.2262, 0.1764**, and if you desaturate by 10%, it is **48.3889, 0.2663, 0.2456**.

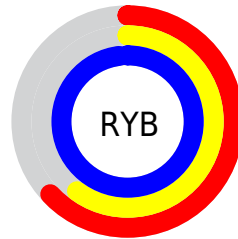
# Distribution



Red (63%)

Green (60%)

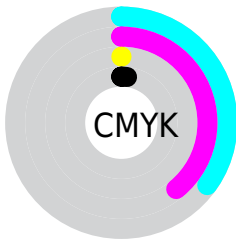
Blue (98%)



Red (63%)

Yellow (60%)

Blue (98%)

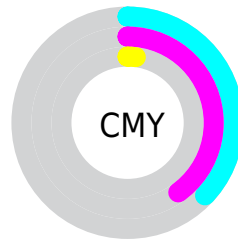


Cyan (35%)

Magenta (39%)

Yellow (0%)

Black (2%)



Cyan (37%)

Magenta (40%)


Yellow (2%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.8731, 0.2467, 0.2115 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 36.8731, 0.2467, 0.2115 by changing the saturation by 10% instead.





 36.8731, 0.2467,  
0.2115


 36.8731, 0.2467,  
0.2115


332.7608, 0.2806,  
0.2671

 25.1093, 0.2382,  
0.1988


 70.3776, 0.2591,  
0.2308

 16.1585, 0.2275,  
0.1833


 92.8870, 0.2637,  
0.2384

 9.6364, 0.2135,  
0.1640


119.7470, 0.2676,  
0.2449

 5.1585, 0.1947,  
0.1397

151.3421, 0.2710,  
0.2505

 2.3406, 0.1686,  
0.1088

188.0567, 0.2739,  
0.2554

 0.7951, 0.1317,  
0.0701

230.2750, 0.2764,


 0.0000, 0.0643,


0.2598

0.0000


278.3816, 0.2787,  
0.2637

 0.0000, 0.0000,  
0.0000

 36.8731, 0.2467,  
0.2115


 36.8731, 0.2467,  
0.2115


 27.4813, 0.2262,  
0.1764


 48.3889, 0.2663,  
0.2456


 20.0793, 0.2058,  
0.1423


 62.1434, 0.2842,  
0.2773


 14.5245, 0.1870,  
0.1118

 78.2482, 0.3001,  
0.3061

 10.6529, 0.1712,  
0.0872

 96.8059, 0.3141,  
0.3316

 8.2718, 0.1597,  
0.0706

 99.6185, 0.3162,  
0.3347

■ 7.1053, 0.1529,  
0.0620

■ 7.0184, 0.1524,  
0.0613

# Harmonies

## Analogous

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



36.8731, 0.1967, 0.2100



36.8731, 0.2467, 0.2115



36.8731, 0.3217, 0.2364

# Triad

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



36.8731, 0.2467, 0.2115



36.8731, 0.4702, 0.3938



36.8731, 0.2219, 0.3796

# Complementary

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



36.8731, 0.2467, 0.2115



88.5512, 0.3650, 0.4280

# 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.



36.8731, 0.2880, 0.4556



36.8731, 0.2467, 0.2115



36.8731, 0.4322, 0.4482

# Square

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



36.8731, 0.2467, 0.2115



36.8731, 0.4616, 0.3348



36.8731, 0.3650, 0.4784



36.8731, 0.1831, 0.2945



# Rectangle

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



36.8731, 0.2467, 0.2115



36.8731, 0.3777, 0.2637



36.8731, 0.3650, 0.4784



36.8731, 0.2414, 0.4086

# Sweetspot

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



36.8745, 0.2467, 0.2115



77.1107, 0.2954, 0.2976



76.3706, 0.2573, 0.3196



16.0199, 0.2934, 0.2939



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.



36.8745, 0.2467, 0.2115



30.7130, 0.2301, 0.1830



42.8011, 0.2834, 0.2226



16.7190, 0.2993, 0.3046



3.7830, 0.1530, 0.0616



0.3753, 0.1593, 0.0651



# Inverse Universe

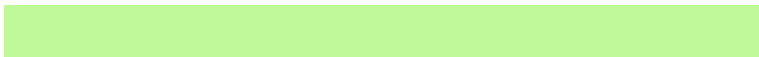
The Inverse Universe completely reimagines the original color for something new.



48.9011, 0.3246, 0.2404



45.1626, 0.3276, 0.2233



81.2712, 0.3321, 0.4397



17.4955, 0.3152, 0.3077



13.7364, 0.3454, 0.1677

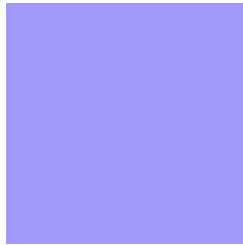


1.2800, 0.3422, 0.1659



# Previews

## White Background



This preview shows how the Yxy color 36.8731, 0.2467, 0.2115 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

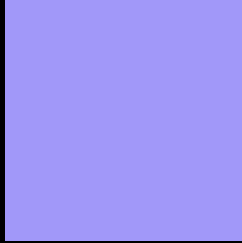
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.8731, 0.2467, 0.2115 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

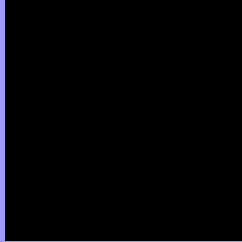
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 36.8731, 0.2467, 0.2115**

## Background



This preview shows how black text looks on a background with the Yxy color 36.8731, 0.2467, 0.2115.



This preview shows how white text looks on a background with the Yxy color 36.8731, 0.2467, 0.2115.

# 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

36.8731, 0.2467, 0.2115

### Protanopia

36.9508, 0.2244, 0.2098

### Deuteranopia

37.1949, 0.2266, 0.2207



## Tritanopia

37.0437, 0.2838, 0.3100

# Trichromacy



**Original Color**

36.8731, 0.2467, 0.2115

**Protanomaly**

36.7812, 0.2317, 0.2099

**Deuteranomaly**

36.8920, 0.2328, 0.2165

**Tritanomaly**

36.8277, 0.2690, 0.2699

# Monochromacy



**Original Color**

36.8731, 0.2467, 0.2115

**Achromatopsia**

38.1326, 0.3127, 0.3290

**Achromatomaly**

37.3678, 0.2862, 0.2813

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.8731, 0.2467, 0.2115 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(161, 152, 249)` looks like.

```
.text, #text, p{  
    color:rgb(161, 152, 249)  
}
```

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(161, 152, 249) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(161, 152, 249) }
```

## Border

The CSS property to change the border of an element to Yxy 36.8731, 0.2467, 0.2115 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(161, 152, 249) }
```

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

```
.border{ border-color:rgb(161, 152, 249) }
```

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

Here you see how a box with a 4 pixel `rgb(161, 152, 249)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(161, 152, 249); -webkit-box-  
shadow:4px 4px 4px 4px rgb(161, 152, 249);  
box-shadow:4px 4px 4px 4px rgb(161, 152,  
249) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.8731, 0.2467, 0.2115 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(161, 152, 249) }
```

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

```
.background{ background-color: rgb(161,  
152, 249) }
```

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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