

# Converting Colors

$Y_{xy}(34.2233, 0.2328, 0.1970)$

Have a look what the booklet for  
Yxy(34.2233, 0.2328, 0.1970)  
contains.

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# Color

**Yxy(34.2905, 0.2330, 0.1972)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9393FF
RGB	147, 147, 255
RGB Percent	58%, 58%, 100%
CMY	0.4235, 0.4235, 0.0000
CMYK	0.42, 0.42, 0.00, 0.00
HSL	240°, 100%, 79%
HSV	240°, 42%, 100%
XYZ	40.5157, 34.2905, 99.0808
YIQ	159.3120, -34.6680, 33.5880

# Conversions

## Conversions Part 2

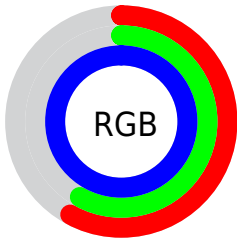
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	147, 147, 255
Decimal	9671679
CIE <sub>Lab</sub>	65.19, 26.33, -53.82
CIE <sub>LCh</sub>	65, 59.917, 296.068
Yxy	34.2905, 0.2330, 0.1972
Android (android.graphics.Color)	4287861759 (0xFF9393FF)
YUV	159.3120, 47.1742, -10.7976
Hunter-Lab	58.5581, 21.0254, -59.3285

# Details

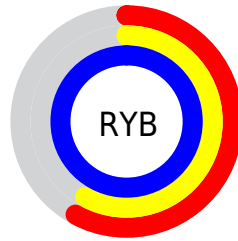
The Yxy color **34.2905, 0.2330, 0.1972** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **94.8757, 0.3761, 0.4338**, and the grayscale version is **34.6146, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.9724, 0.2796, 0.2703**, and **14.8003, 0.2104, 0.1667** is the 20% darker color. If you saturate the color by 10%, you get **25.1191, 0.2113, 0.1613**, and if you desaturate by 10%, it is **45.7440, 0.2545, 0.2327**.

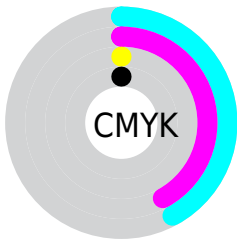
# Distribution



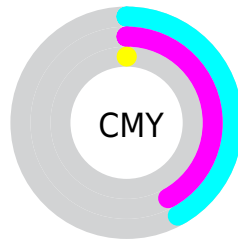
- Red (58%)
- Green (58%)
- Blue (100%)



- Red (58%)
- Yellow (58%)
- Blue (100%)



- Cyan (42%)
- Magenta (42%)
- Yellow (0%)
- Black (0%)




- Cyan (42%)
- Magenta (42%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 34.2905, 0.2330, 0.1972 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 34.2905, 0.2330, 0.1972 by changing the saturation by 10% instead.





 34.2905, 0.2330,  
0.1972


 34.2905, 0.2330,  
0.1972


321.4254, 0.2739,  
0.2594

 23.1169, 0.2229,  
0.1832


 66.3852, 0.2478,  
0.2187

 14.6798, 0.2102,  
0.1663


 88.0750, 0.2534,  
0.2271

 8.5950, 0.1939,  
0.1455

114.0390, 0.2582,  
0.2344

 4.4780, 0.1723,  
0.1197

144.6615, 0.2622,  
0.2407

 1.9444, 0.1433,  
0.0881

180.3271, 0.2657,  
0.2462

 0.5748, 0.1045,  
0.0485


221.4200, 0.2688,

 0.0000, 0.0251,

0.2511


0.0000

268.3246, 0.2715,  
0.2555


 0.0000, 0.0000,  
0.0000


 34.2905, 0.2330,  
0.1972

 34.2905, 0.2330,  
0.1972


 25.1191, 0.2113,  
0.1613


 45.7440, 0.2545,  
0.2327


 18.0737, 0.1908,  
0.1275


 59.6142, 0.2747,  
0.2661

 12.9847, 0.1734,  
0.0986

 76.0298, 0.2930,  
0.2964

 9.6550, 0.1604,  
0.0772

 95.1092, 0.3092,  
0.3232

 7.8462, 0.1528,  
0.0646

99.9993, 0.3127,  
0.3290

■ 7.2194, 0.1500,  
0.0600

# Harmonies

## Analogous

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



34.2905, 0.1805, 0.1968



34.2905, 0.2330, 0.1972



34.2905, 0.3156, 0.2229

# Triad

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



34.2905, 0.2330, 0.1972



34.2905, 0.4917, 0.3934



34.2905, 0.2135, 0.3941

# Complementary

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



34.2905, 0.2330, 0.1972



94.8757, 0.3761, 0.4338

# 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.



34.2905, 0.2885, 0.4807



34.2905, 0.2330, 0.1972



34.2905, 0.4496, 0.4568

# Square

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



34.2905, 0.2330, 0.1972



34.2905, 0.4798, 0.3287



34.2905, 0.3748, 0.4986



34.2905, 0.1693, 0.2939



# Rectangle

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



34.2905, 0.2330, 0.1972



34.2905, 0.3798, 0.2520



34.2905, 0.3748, 0.4986



34.2905, 0.2358, 0.4279

# Sweetspot

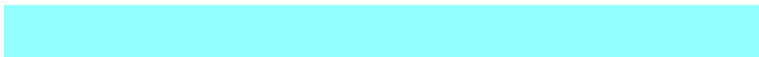
The Sweet Spot groups the original color and five complimentary colors.



34.2917, 0.2330, 0.1972



74.8892, 0.2919, 0.2945



84.9353, 0.2549, 0.3288



15.2137, 0.2880, 0.2881



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.



34.2917, 0.2330, 0.1972



26.2315, 0.2142, 0.1661



40.5045, 0.2728, 0.2102



17.3779, 0.2978, 0.3044



3.7727, 0.1500, 0.0600



0.3674, 0.1500, 0.0600



# Inverse Universe

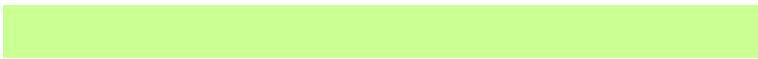
The Inverse Universe completely reimagines the original color for something new.



49.3449, 0.3176, 0.2248



43.1339, 0.3185, 0.2062



86.0363, 0.3392, 0.4483



18.3004, 0.3138, 0.3056



14.8808, 0.3209, 0.1542

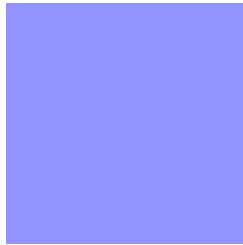


1.4489, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 34.2905, 0.2330, 0.1972 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

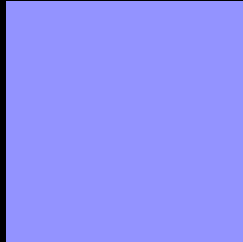
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 34.2905, 0.2330, 0.1972 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

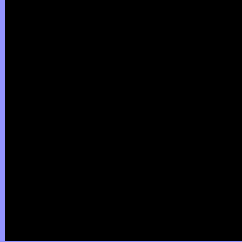
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 34.2905, 0.2330, 0.1972**

## **Background**



This preview shows how black text looks on a background with the Yxy color 34.2905, 0.2330, 0.1972.



This preview shows how white text looks on a background with the Yxy color 34.2905, 0.2330, 0.1972.

# 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

34.2905, 0.2330, 0.1972

### Protanopia

34.5142, 0.2177, 0.2018

### Deuteranopia

34.4251, 0.2129, 0.2064



## Tritanopia

34.2373, 0.2704, 0.3089

# Trichromacy



## Original Color

34.2905, 0.2330, 0.1972

## Protanomaly

34.3436, 0.2230, 0.1998

## Deuteranomaly

34.1961, 0.2194, 0.2026

## Tritanomaly

33.9298, 0.2553, 0.2619

# Monochromacy



## Original Color

34.2905, 0.2330, 0.1972

## Achromatopsia

34.6704, 0.3127, 0.3290

## Achromatomaly

34.3063, 0.2796, 0.2742

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 34.2905, 0.2330, 0.1972 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(147, 147, 255)` looks like.

```
.text, #text, p{  
    color:rgb(147, 147, 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(147, 147, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(147, 147, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 34.2905, 0.2330, 0.1972 is called "border". The border property can be set on classes, ids or directly on the HTML element.

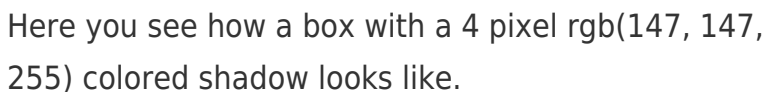
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(147, 147, 255) }
```

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

```
.border{ border-color:rgb(147, 147, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(147, 147, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(147, 147, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(147, 147, 255);  
box-shadow:4px 4px 4px 4px rgb(147, 147,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 34.2905, 0.2330, 0.1972 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(147, 147, 255) }
```

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

```
.background{ background-color: rgb(147,  
147, 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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