

# Converting Colors

$Y_{xy}(28.1402, 0.2022, 0.1290)$

Have a look what the booklet for  
Yxy(28.1402, 0.2022, 0.1290)  
contains.

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**Color**

**Yxy(24.5591, 0.2228, 0.1564)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8E70FF
RGB	142, 112, 255
RGB Percent	56%, 44%, 100%
CMY	0.4434, 0.5606, 0.0001
CMYK	0.44, 0.56, 0.00, 0.00
HSL	253°, 100%, 72%
HSV	253°, 56%, 100%
XYZ	34.9857, 24.5591, 97.4827
YIQ	137.2720, -28.0230, 50.8330

# Conversions

## Conversions Part 2

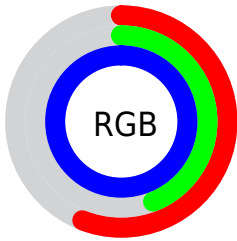
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	142, 112, 255
Decimal	9335039
CIE Lab	56.64, 45.22, -67.51
CIE LCh	57, 81.256, 303.811
Yxy	24.5591, 0.2228, 0.1564
Android (android.graphics.Color)	4287525119 (0xFF8E70FF)
YUV	137.2720, 58.0399, 4.1465
Hunter-Lab	49.5571, 39.2902, -81.9380

# Details

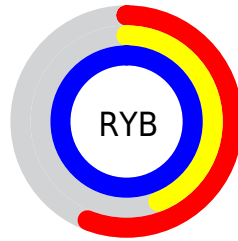
The Yxy color **24.5591, 0.2228, 0.1564** is a light color, and the websafe version is hex **9966FF**. A complement of this color would be **88.6976, 0.3726, 0.4737**, and the grayscale version is **24.9081, 0.3127, 0.3290**.

A 20% lighter version of the original color is **46.5478, 0.2741, 0.2295**, and **9.3801, 0.1953, 0.1194** is the 20% darker color. If you saturate the color by 10%, you get **18.0810, 0.2042, 0.1255**, and if you desaturate by 10%, it is **32.9542, 0.2418, 0.1897**.

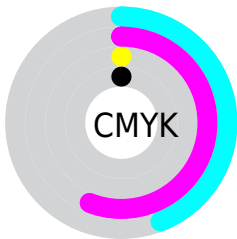
# Distribution



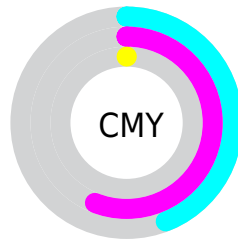
- Red (56%)
- Green (44%)
- Blue (100%)



- Red (56%)
- Yellow (44%)
- Blue (100%)



- Cyan (44%)
- Magenta (56%)
- Yellow (0%)
- Black (0%)




- Cyan (44%)
- Magenta (56%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.5591, 0.2228, 0.1564 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 24.5591, 0.2228, 0.1564 by changing the saturation by 10% instead.





 24.5591, 0.2228,  
0.1564


 24.5591, 0.2228,  
0.1564


275.6350, 0.2713,  
0.2366


 15.7489, 0.2105,  
0.1392


 50.9410, 0.2408,  
0.1836


 9.3466, 0.1949,  
0.1189


 69.2816, 0.2474,  
0.1944

 4.9680, 0.1747,  
0.0950


 91.5676, 0.2530,  
0.2038

 2.2285, 0.1484,  
0.0677

 118.1836, 0.2578,  
0.2120

 0.7355, 0.1141,  
0.0379

149.5140, 0.2619,  
0.2193

 0.0000, 0.0718,  
0.0000

185.9431, 0.2654,

 0.0000, 0.0000,

0.2257

0.0000

227.8553, 0.2685,  
0.2315

■ 24.5591, 0.2228,  
0.1564

■ 24.5591, 0.2228,  
0.1564

■ 18.0810, 0.2042,  
0.1255

■ 32.9542, 0.2418,  
0.1897

■ 13.3617, 0.1872,  
0.0995

■ 43.4022, 0.2600,  
0.2235

■ 10.2210, 0.1730,  
0.0800

■ 56.0293, 0.2770,  
0.2560

■ 8.4368, 0.1625,  
0.0682

■ 70.9508, 0.2922,  
0.2863

■ 7.9835, 0.1593,  
0.0651

■ 88.2735, 0.3055,  
0.3138

99.9984, 0.3127,  
0.3290

# Harmonies

## Analogous

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



24.5591, 0.1457, 0.1456



24.5591, 0.2228, 0.1564



24.5591, 0.3493, 0.1961

# Triad

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



24.5591, 0.2228, 0.1564



24.5591, 0.5494, 0.4175



24.5591, 0.1475, 0.3813

# Complementary

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



24.5591, 0.2228, 0.1564



88.6976, 0.3726, 0.4737

# 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.



24.5591, 0.2351, 0.5480



24.5591, 0.2228, 0.1564



24.5591, 0.4627, 0.5129

# Square

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



24.5591, 0.2228, 0.1564



24.5591, 0.5708, 0.3343



24.5591, 0.3498, 0.5876



24.5591, 0.1091, 0.2379



# Rectangle

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



24.5591, 0.2228, 0.1564



24.5591, 0.4478, 0.2366



24.5591, 0.3498, 0.5876



24.5591, 0.1715, 0.4416

# Sweetspot

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



24.5599, 0.2228, 0.1564



69.4592, 0.2908, 0.2836



65.2701, 0.2347, 0.2943



14.1945, 0.2879, 0.2776



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.



24.5599, 0.2228, 0.1564



17.5675, 0.2025, 0.1229



32.8271, 0.2802, 0.1803



17.5607, 0.3011, 0.3046



4.2234, 0.1604, 0.0657



0.4554, 0.1705, 0.0713



# Inverse Universe

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



38.2942, 0.3476, 0.2195



32.7533, 0.3566, 0.2040



79.6357, 0.3266, 0.4984



18.2315, 0.3170, 0.3104



13.3519, 0.3822, 0.1879

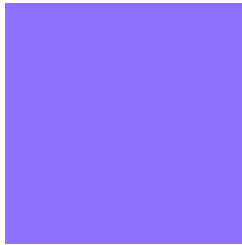


1.3156, 0.3738, 0.1833



# Previews

## White Background



This preview shows how the Yxy color 24.5591, 0.2228, 0.1564 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

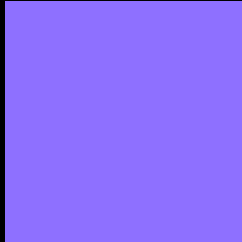
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 24.5591, 0.2228, 0.1564 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

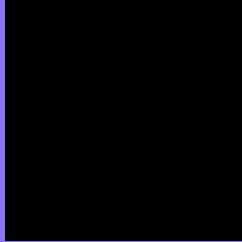
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 24.5591, 0.2228, 0.1564**

## **Background**



This preview shows how black text looks on a background with the Yxy color 24.5591, 0.2228, 0.1564.



This preview shows how white text looks on a background with the Yxy color 24.5591, 0.2228, 0.1564.

# 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

24.5591, 0.2228, 0.1564

### Protanopia

24.9515, 0.1893, 0.1646

### Deuteranopia

24.7086, 0.1827, 0.1776



## Tritanopia

24.3444, 0.2769, 0.3079

# Trichromacy



**Original Color**

24.5591, 0.2228, 0.1564

**Protanomaly**

24.3201, 0.1979, 0.1599

**Deuteranomaly**

23.2079, 0.1855, 0.1642

**Tritanomaly**

23.7346, 0.2534, 0.2359

# Monochromacy



**Original Color**

24.5591, 0.2228, 0.1564

**Achromatopsia**

25.0158, 0.3127, 0.3290

**Achromatomaly**

24.2226, 0.2735, 0.2490

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.5591, 0.2228, 0.1564 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(142, 112, 255)` looks like.

```
.text, #text, p{  
    color:rgb(142, 112, 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(142, 112, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(142, 112, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 24.5591, 0.2228, 0.1564 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(142, 112, 255) }
```

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

```
.border{ border-color:rgb(142, 112, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(142, 112, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(142, 112, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(142, 112, 255);  
box-shadow:4px 4px 4px 4px rgb(142, 112,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.5591, 0.2228, 0.1564 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(142, 112, 255) }
```

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

```
.background{ background-color: rgb(142,  
112, 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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