

# Converting Colors

$Y_{xy}(24.1785, 0.2312, 0.1619)$

Have a look what the booklet for  
Yxy(24.1785, 0.2312, 0.1619)  
contains.

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# Color

**Yxy(24.1632, 0.2312, 0.1615)**

# Conversions

## Conversions Part 1

Format	Color
Hex	946EF7
RGB	148, 110, 247
RGB Percent	58%, 43%, 97%
CMY	0.4193, 0.5688, 0.0312
CMYK	0.40, 0.55, 0.00, 0.03
HSL	257°, 90%, 70%
HSV	257°, 55%, 97%
XYZ	34.5915, 24.1632, 90.8626
YIQ	136.9800, -21.3290, 50.6630

# Conversions

## Conversions Part 2

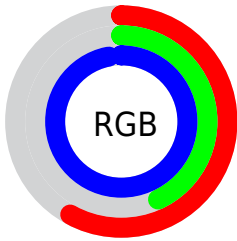
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	148, 110, 247
Decimal	9727735
CIE <sub>Lab</sub>	56.25, 45.56, -63.72
CIE <sub>LCh</sub>	56, 78.334, 305.561
Y <sub>xy</sub>	24.1632, 0.2312, 0.1615
Android (android.graphics.Color)	4287917815 (0xFF946EF7)
YUV	136.9800, 54.2399, 9.6645
Hunter-Lab	49.1561, 39.5888, -75.1854

# Details

The Yxy color **24.1632, 0.2312, 0.1615** is a light color, and the websafe version is hex **9966FF**. A complement of this color would be **81.2089, 0.3653, 0.4758**, and the grayscale version is **24.8073, 0.3127, 0.3290**.

A 20% lighter version of the original color is **46.6798, 0.2786, 0.2286**, and **9.1231, 0.2046, 0.1234** is the 20% darker color. If you saturate the color by 10%, you get **18.0203, 0.2135, 0.1313**, and if you desaturate by 10%, it is **32.0491, 0.2489, 0.1940**.

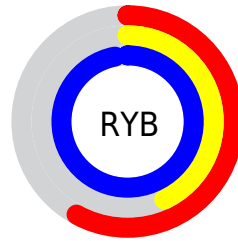
# Distribution



Red (58%)

Green (43%)

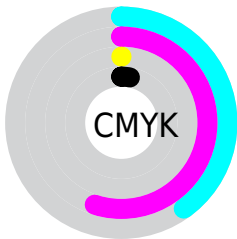
Blue (97%)



Red (58%)

Yellow (43%)

Blue (97%)

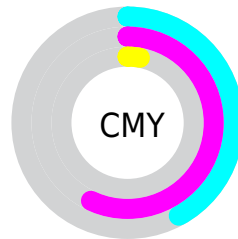


Cyan (40%)

Magenta (55%)

Yellow (0%)

Black (3%)



Cyan (42%)

Magenta (57%)


Yellow (3%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.1632, 0.2312, 0.1615 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 24.1632, 0.2312, 0.1615 by changing the saturation by 10% instead.





 24.1632, 0.2312,  
0.1615


 24.1632, 0.2312,  
0.1615


273.6445, 0.2758,  
0.2402


 15.4547, 0.2196,  
0.1443


 50.2964, 0.2479,  
0.1884

 9.1391, 0.2047,  
0.1239


 68.4899, 0.2541,  
0.1990

 4.8321, 0.1851,  
0.0997


 90.6139, 0.2593,  
0.2082

 2.1491, 0.1591,  
0.0715

 117.0527, 0.2636,  
0.2163

 0.6920, 0.1242,  
0.0399

148.1908, 0.2673,  
0.2233

 0.0000, 0.0795,  
0.0000

184.4125, 0.2706,

 0.0000, 0.0000,

0.2296

0.0000

226.1023, 0.2734,  
0.2352

■ 24.1632, 0.2312,  
0.1615

■ 24.1632, 0.2312,  
0.1615

■ 18.0203, 0.2135,  
0.1313

■ 32.0491, 0.2489,  
0.1940

■ 13.4794, 0.1967,  
0.1053

■ 41.7989, 0.2657,  
0.2268

■ 10.3807, 0.1821,  
0.0856

■ 53.5253, 0.2811,  
0.2586

■ 8.5275, 0.1704,  
0.0728

■ 67.3311, 0.2949,  
0.2882

■ 7.9718, 0.1661,  
0.0689

■ 83.3120, 0.3068,  
0.3153

99.4974, 0.3173,  
0.3366

# Harmonies

## Analogous

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



24.1632, 0.1525, 0.1492



24.1632, 0.2312, 0.1615



24.1632, 0.3569, 0.2023

# Triad

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



24.1632, 0.2312, 0.1615



24.1632, 0.5410, 0.4230



24.1632, 0.1483, 0.3703

# Complementary

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



24.1632, 0.2312, 0.1615



81.2089, 0.3653, 0.4758

# 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.



24.1632, 0.2321, 0.5329



24.1632, 0.2312, 0.1615



24.1632, 0.4551, 0.5156

# Square

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



24.1632, 0.2312, 0.1615



24.1632, 0.5653, 0.3402



24.1632, 0.3442, 0.5820



24.1632, 0.1125, 0.2352



# Rectangle

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



24.1632, 0.2312, 0.1615



24.1632, 0.4519, 0.2430



24.1632, 0.3442, 0.5820



24.1632, 0.1710, 0.4279

# Sweetspot

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



24.1640, 0.2312, 0.1615



69.9326, 0.2928, 0.2838



56.3604, 0.2329, 0.2829



14.3052, 0.2902, 0.2780



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.



24.1640, 0.2312, 0.1615



18.4626, 0.2107, 0.1267



32.3150, 0.2891, 0.1854



16.1497, 0.3023, 0.3048



4.2756, 0.1675, 0.0697



0.4251, 0.1803, 0.0767



# Inverse Universe

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



35.5223, 0.3573, 0.2289



32.1527, 0.3704, 0.2136



73.4123, 0.3211, 0.4992



16.6851, 0.3181, 0.3121



12.1897, 0.4065, 0.2013

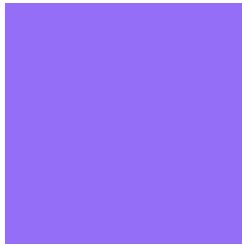


1.0887, 0.3933, 0.1940



# Previews

## White Background



This preview shows how the Yxy color 24.1632, 0.2312, 0.1615 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

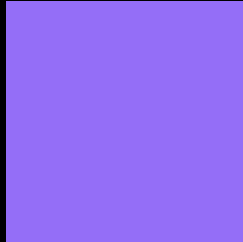
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 24.1632, 0.2312, 0.1615 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

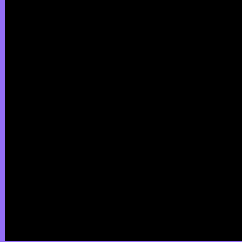
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 24.1632, 0.2312, 0.1615**

## **Background**



This preview shows how black text looks on a background with the Yxy color 24.1632, 0.2312, 0.1615.

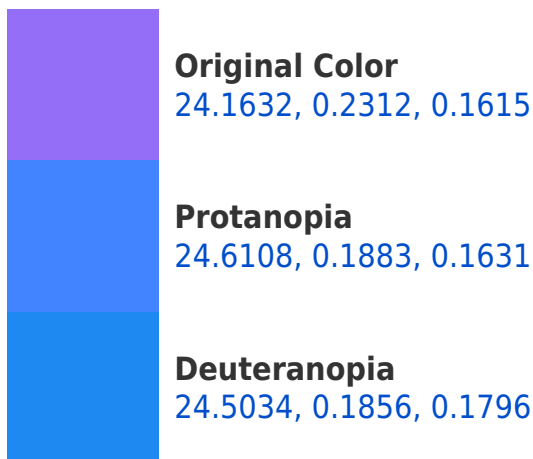


This preview shows how white text looks on a background with the Yxy color 24.1632, 0.2312, 0.1615.

# 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





## Tritanopia

24.0749, 0.2901, 0.3100

# Trichromacy



## Original Color

24.1632, 0.2312, 0.1615



## Protanomaly

23.6810, 0.1988, 0.1597



## Deuteranomaly

23.0275, 0.1926, 0.1677



## Tritanomaly

23.5842, 0.2650, 0.2422

# Monochromacy



## Original Color

24.1632, 0.2312, 0.1615



## Achromatopsia

25.0158, 0.3127, 0.3290



## Achromatomaly

24.0158, 0.2780, 0.2518

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.1632, 0.2312, 0.1615 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(148, 110, 247)` looks like.

```
.text, #text, p{  
    color:rgb(148, 110, 247)  
}
```

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(148, 110, 247) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(148, 110, 247) }
```

## Border

The CSS property to change the border of an element to Yxy 24.1632, 0.2312, 0.1615 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(148, 110, 247) }
```

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

```
.border{ border-color:rgb(148, 110, 247) }
```

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

Here you see how a box with a 4 pixel `rgb(148, 110, 247)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(148, 110, 247); -webkit-box-  
shadow:4px 4px 4px 4px rgb(148, 110, 247);  
box-shadow:4px 4px 4px 4px rgb(148, 110,  
247) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.1632, 0.2312, 0.1615 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(148, 110, 247) }
```

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

```
.background{ background-color: rgb(148,  
110, 247) }
```

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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