

# Converting Colors

$Y_{xy}(28.2035, 0.2435, 0.1938)$

Have a look what the booklet for  
Yxy(28.2035, 0.2435, 0.1938)  
contains.

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# Color

**Yxy(28.1827, 0.2430, 0.1933)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9681EB
RGB	150, 129, 235
RGB Percent	59%, 51%, 92%
CMY	0.4117, 0.4942, 0.0783
CMYK	0.36, 0.45, 0.00, 0.08
HSL	252°, 73%, 71%
HSV	252°, 45%, 92%
XYZ	35.4288, 28.1827, 82.1862
YIQ	147.3630, -21.5100, 37.4180

# Conversions

## Conversions Part 2

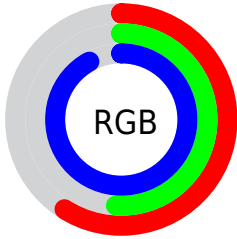
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">150, 129, 235</a>
Decimal	<a href="#">9863659</a>
CIELab	<a href="#">60.05, 32.02, -50.97</a>
CIELCh	<a href="#">60, 60.198, 302.139</a>
Yxy	<a href="#">28.1827, 0.2430, 0.1933</a>
Android (android.graphics.Color)	<a href="#">4288053739 (0xFF9681EB)</a>
YUV	<a href="#">147.3630, 43.2050, 2.3126</a>
Hunter-Lab	<a href="#">53.0874, 26.2224, -54.6275</a>

# Details

The Yxy color **28.1827, 0.2430, 0.1933** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **75.3083, 0.3638, 0.4462**, and the grayscale version is **29.1615, 0.3127, 0.3290**.

A 20% lighter version of the original color is **53.9413, 0.2798, 0.2494**, and **11.2263, 0.2197, 0.1586** is the 20% darker color. If you saturate the color by 10%, you get **21.0424, 0.2240, 0.1598**, and if you desaturate by 10%, it is **37.0361, 0.2613, 0.2269**.

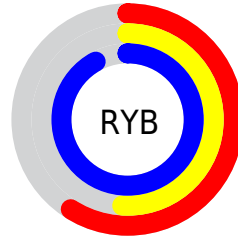
# Distribution



Red (59%)

Green (51%)

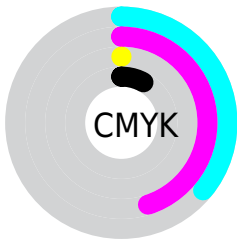
Blue (92%)



Red (59%)

Yellow (51%)

Blue (92%)

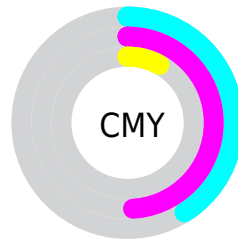


Cyan (36%)

Magenta (45%)

Yellow (0%)

Black (8%)



Cyan (41%)

Magenta (49%)


Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.1827, 0.2430, 0.1933 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 28.1827, 0.2430, 0.1933 by changing the saturation by 10% instead.




 28.1827, 0.2430,  
0.1933


 28.1827, 0.2430,  
0.1933


293.3389, 0.2805,  
0.2588


 18.4634, 0.2332,  
0.1782


 56.7760, 0.2570,  
0.2163

 11.2832, 0.2205,  
0.1597


 76.4188, 0.2622,  
0.2252

 6.2577, 0.2037,  
0.1368


 100.1383, 0.2665,  
0.2328

 3.0024, 0.1806,  
0.1083

128.3188, 0.2702,  
0.2394

 1.1330, 0.1482,  
0.0735

161.3447, 0.2733,  
0.2452

 0.0059, 0.1062,  
0.0008

199.6004, 0.2760,

 0.0000, 0.0000,

0.2503

0.0000

243.4703, 0.2784,  
0.2548

■ 28.1827, 0.2430,  
0.1933

■ 28.1827, 0.2430,  
0.1933

■ 21.0424, 0.2240,  
0.1598

■ 37.0361, 0.2613,  
0.2269

■ 15.4993, 0.2052,  
0.1286

■ 47.7018, 0.2782,  
0.2592

■ 11.4282, 0.1880,  
0.1018

■ 60.2750, 0.2933,  
0.2892

■ 8.6829, 0.1735,  
0.0815

■ 74.8434, 0.3066,  
0.3163

■ 7.0857, 0.1627,  
0.0688

■ 91.4892, 0.3181,  
0.3404

■ 6.5950, 0.1587,  
0.0648

■ 98.7795, 0.3244,  
0.3483

# Harmonies

## Analogous

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



28.1827, 0.1813, 0.1869



28.1827, 0.2430, 0.1933



28.1827, 0.3359, 0.2251

# Triad

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



28.1827, 0.2430, 0.1933



28.1827, 0.4976, 0.4090



28.1827, 0.1943, 0.3755

# Complementary

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



28.1827, 0.2430, 0.1933



75.3083, 0.3638, 0.4462

# 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.



28.1827, 0.2678, 0.4793



28.1827, 0.2430, 0.1933



28.1827, 0.4426, 0.4754

# Square

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



28.1827, 0.2430, 0.1933



28.1827, 0.4994, 0.3406



28.1827, 0.3586, 0.5136



28.1827, 0.1560, 0.2725



# Rectangle

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



28.1827, 0.2430, 0.1933



28.1827, 0.4048, 0.2580



28.1827, 0.3586, 0.5136



28.1827, 0.2153, 0.4138

# Sweetspot

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



28.1837, 0.2430, 0.1933



74.2704, 0.2948, 0.2922



59.5641, 0.2479, 0.3045



15.1404, 0.2917, 0.2860



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.



28.1837, 0.2430, 0.1933



25.9978, 0.2257, 0.1627



34.1766, 0.2870, 0.2084



14.6928, 0.3011, 0.3049



3.7119, 0.1598, 0.0654



0.3307, 0.1723, 0.0723



# Inverse Universe

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



38.2181, 0.3378, 0.2380



39.6364, 0.3445, 0.2217



68.7550, 0.3270, 0.4617



15.2596, 0.3168, 0.3103



11.8782, 0.3784, 0.1858



0.9458, 0.3689, 0.1806



# Previews

## White Background



This preview shows how the Yxy color 28.1827, 0.2430, 0.1933 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

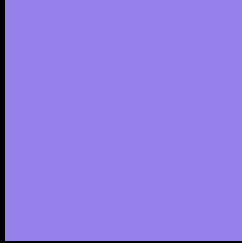
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 28.1827, 0.2430, 0.1933 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

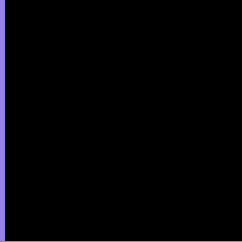
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 28.1827, 0.2430, 0.1933**

## **Background**



This preview shows how black text looks on a background with the Yxy color 28.1827, 0.2430, 0.1933.



This preview shows how white text looks on a background with the Yxy color 28.1827, 0.2430, 0.1933.

# 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

28.1827, 0.2430, 0.1933

### Protanopia

28.3562, 0.2078, 0.1882

### Deuteranopia

28.4567, 0.2123, 0.2061



## Tritanopia

28.0129, 0.2886, 0.3095

# Trichromacy



**Original Color**

28.1827, 0.2430, 0.1933

**Protanomaly**

28.1537, 0.2187, 0.1898

**Deuteranomaly**

27.9258, 0.2211, 0.2000

**Tritanomaly**

27.7903, 0.2700, 0.2598

# Monochromacy



**Original Color**

28.1827, 0.2430, 0.1933

**Achromatopsia**

29.1771, 0.3127, 0.3290

**Achromatomaly**

28.3067, 0.2843, 0.2707

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.1827, 0.2430, 0.1933 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(150, 129, 235)` looks like.

```
.text, #text, p{  
    color:rgb(150, 129, 235)  
}
```

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(150, 129, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 129, 235) }
```

## Border

The CSS property to change the border of an element to Yxy 28.1827, 0.2430, 0.1933 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(150, 129, 235) }
```

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

```
.border{ border-color:rgb(150, 129, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 129, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 129, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 129, 235);  
box-shadow:4px 4px 4px 4px rgb(150, 129,  
235) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.1827, 0.2430, 0.1933 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 129, 235) }
```

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

```
.background{ background-color: rgb(150,  
129, 235) }
```

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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