

# Converting Colors

$Y_{xy}(27.8018, 0.2230, 0.1758)$

Have a look what the booklet for  
Yxy(27.8018, 0.2230, 0.1758)  
contains.

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# Color

**Yxy(27.8164, 0.2233, 0.1762)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8781FB
RGB	135, 129, 251
RGB Percent	53%, 51%, 98%
CMY	0.4708, 0.4941, 0.0156
CMYK	0.46, 0.49, 0.00, 0.02
HSL	243°, 94%, 75%
HSV	243°, 49%, 98%
XYZ	35.2520, 27.8164, 94.7999
YIQ	144.7020, -35.5860, 39.2140

# Conversions

## Conversions Part 2

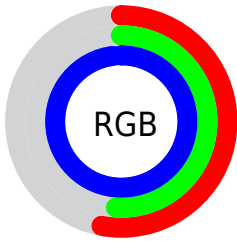
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">135, 129, 251</a>
Decimal	<a href="#">8880635</a>
CIELab	<a href="#">59.72, 32.85, -60.42</a>
CIElCh	<a href="#">60, 68.773, 298.533</a>
Yxy	<a href="#">27.8164, 0.2233, 0.1762</a>
Android (android.graphics.Color)	<a href="#">4287070715 (0xFF8781FB)</a>
YUV	<a href="#">144.7020, 52.4049, -8.5087</a>
Hunter-Lab	<a href="#">52.7413, 27.0113, -69.6521</a>

# Details

The Yxy color **27.8164, 0.2233, 0.1762** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **90.0239, 0.3802, 0.4494**, and the grayscale version is **27.9811, 0.3127, 0.3290**.

A 20% lighter version of the original color is **52.1452, 0.2705, 0.2473**, and **11.1282, 0.1963, 0.1409** is the 20% darker color. If you saturate the color by 10%, you get **20.2333, 0.2025, 0.1417**, and if you desaturate by 10%, it is **37.4695, 0.2444, 0.2117**.

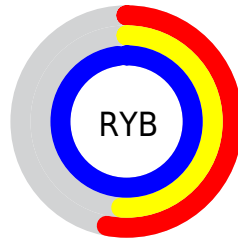
# Distribution



Red (53%)

Green (51%)

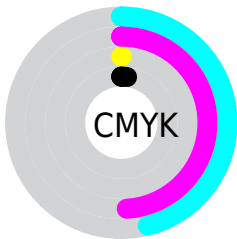
Blue (98%)



Red (53%)

Yellow (51%)

Blue (98%)

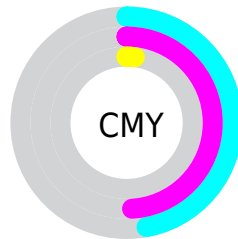


Cyan (46%)

Magenta (49%)

Yellow (0%)

Black (2%)



Cyan (47%)

Magenta (49%)


Yellow (2%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 27.8164, 0.2233, 0.1762 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 27.8164, 0.2233, 0.1762 by changing the saturation by 10% instead.





 27.8164, 0.2233,  
0.1762

 27.8164, 0.2233,  
0.1762


291.5886, 0.2703,  
0.2485


 18.1873, 0.2115,  
0.1601


 56.1912, 0.2406,  
0.2011

 11.0845, 0.1966,  
0.1408


 75.7057, 0.2470,  
0.2109

 6.1237, 0.1773,  
0.1175


 99.2841, 0.2525,  
0.2194

 2.9205, 0.1521,  
0.0896

127.3108, 0.2571,  
0.2267

 1.0903, 0.1188,  
0.0574

160.1702, 0.2611,  
0.2332

 0.0000, 0.0781,  
0.0000

198.2467, 0.2646,

 0.0000, 0.0000,

0.2389

0.0000

241.9247, 0.2676,  
0.2440

■ 27.8164, 0.2233,  
0.1762

■ 27.8164, 0.2233,  
0.1762

■ 20.2333, 0.2025,  
0.1417

■ 37.4695, 0.2444,  
0.2117

■ 14.5664, 0.1836,  
0.1107

■ 49.3261, 0.2647,  
0.2462

■ 10.6447, 0.1681,  
0.0861

■ 63.5113, 0.2834,  
0.2781

■ 8.2659, 0.1573,  
0.0695

■ 80.1406, 0.3000,  
0.3069

■ 7.1490, 0.1515,  
0.0613

■ 99.3213, 0.3146,  
0.3323

■ 7.0466, 0.1510,  
0.0606

99.7468, 0.3150,  
0.3328

# Harmonies

## Analogous

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



27.8164, 0.1610, 0.1721



27.8164, 0.2233, 0.1762



27.8164, 0.3240, 0.2076

# Triad

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



27.8164, 0.2233, 0.1762



27.8164, 0.5238, 0.4029



27.8164, 0.1860, 0.3980

# Complementary

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



27.8164, 0.2233, 0.1762



90.0239, 0.3802, 0.4494

# 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.



27.8164, 0.2705, 0.5156



27.8164, 0.2233, 0.1762



27.8164, 0.4641, 0.4804

# Square

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



27.8164, 0.2233, 0.1762



27.8164, 0.5207, 0.3291



27.8164, 0.3717, 0.5376



27.8164, 0.1409, 0.2740



# Rectangle

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



27.8164, 0.2233, 0.1762



27.8164, 0.4035, 0.2417



27.8164, 0.3717, 0.5376



27.8164, 0.2105, 0.4432

# Sweetspot

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



27.8173, 0.2233, 0.1762



71.7172, 0.2896, 0.2889



78.1319, 0.2477, 0.3241



14.6010, 0.2860, 0.2826



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.



27.8173, 0.2233, 0.1762



21.3543, 0.2036, 0.1435



34.1508, 0.2685, 0.1929



16.6833, 0.2986, 0.3045



3.7204, 0.1515, 0.0608



0.3583, 0.1550, 0.0628



# Inverse Universe

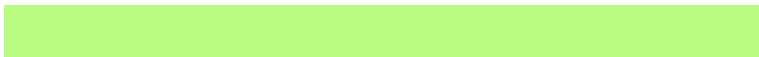
The Inverse Universe completely reimagines the original color for something new.



42.8152, 0.3235, 0.2159



38.5607, 0.3257, 0.1980



81.0298, 0.3392, 0.4682



17.5091, 0.3146, 0.3068



14.0556, 0.3335, 0.1611

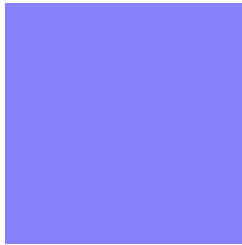


1.3062, 0.3319, 0.1602



# Previews

## White Background



This preview shows how the Yxy color 27.8164, 0.2233, 0.1762 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

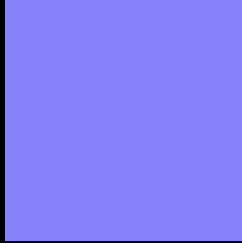
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 27.8164, 0.2233, 0.1762 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

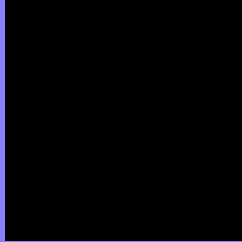
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 27.8164, 0.2233, 0.1762**

## **Background**



This preview shows how black text looks on a background with the Yxy color 27.8164, 0.2233, 0.1762.



This preview shows how white text looks on a background with the Yxy color 27.8164, 0.2233, 0.1762.

# 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

27.8164, 0.2233, 0.1762

### Protanopia

28.1000, 0.1996, 0.1778

### Deuteranopia

28.0230, 0.1946, 0.1882



## Tritanopia

27.7363, 0.2655, 0.3086

# Trichromacy



**Original Color**

27.8164, 0.2233, 0.1762

**Protanomaly**

27.8282, 0.2067, 0.1763

**Deuteranomaly**

27.3664, 0.2018, 0.1823

**Tritanomaly**

27.1630, 0.2478, 0.2491

# Monochromacy



**Original Color**

27.8164, 0.2233, 0.1762

**Achromatopsia**

28.3149, 0.3127, 0.3290

**Achromatomaly**

27.5886, 0.2734, 0.2612

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 27.8164, 0.2233, 0.1762 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(135, 129, 251)` looks like.

```
.text, #text, p{  
    color:rgb(135, 129, 251)  
}
```

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(135, 129, 251) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 129, 251) }
```

## Border

The CSS property to change the border of an element to Yxy 27.8164, 0.2233, 0.1762 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(135, 129, 251) }
```

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

```
.border{ border-color:rgb(135, 129, 251) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 129, 251)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 129, 251); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 129, 251);  
box-shadow:4px 4px 4px 4px rgb(135, 129,  
251) }
```



# Background

The CSS property to change the background color of an element to Yxy 27.8164, 0.2233, 0.1762 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 129, 251) }
```

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

```
.background{ background-color: rgb(135,  
129, 251) }
```

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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