

# Converting Colors

$Y_{xy}(13.0078, 0.1990, 0.0958)$

Have a look what the booklet for  
Yxy(13.0078, 0.1990, 0.0958)  
contains.

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**Color**

**Yxy(13.0168, 0.1990, 0.0959)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7B29FF
RGB	123, 41, 255
RGB Percent	48%, 16%, 100%
CMY	0.5177, 0.8392, 0.0000
CMYK	0.52, 0.84, 0.00, 0.00
HSL	263°, 100%, 58%
HSV	263°, 84%, 100%
XYZ	27.0109, 13.0168, 95.7054
YIQ	89.9140, -19.8220, 83.9380

# Conversions

## Conversions Part 2

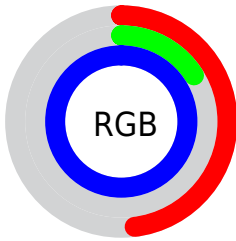
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	123, 41, 255
Decimal	8071679
CIE Lab	42.79, 75.33, -90.22
CIE LCh	43, 117.536, 309.859
Yxy	13.0168, 0.1990, 0.0959
Android (android.graphics.Color)	4286261759 (0xFF7B29FF)
YUV	89.9140, 81.3874, 29.0164
Hunter-Lab	36.0788, 70.4985, -132.0220

# Details

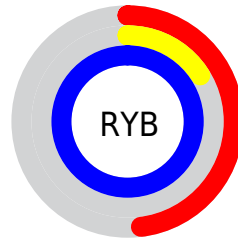
The Yxy color **13.0168, 0.1990, 0.0959** is a dark color, and the websafe version is hex **6633FF**. The color can be described as middle washed purple. A complement of this color would be **80.5661, 0.3589, 0.5414**, and the grayscale version is **10.0224, 0.3127, 0.3290**.

A 20% lighter version of the original color is **26.8991, 0.2573, 0.1606**, and **4.6842, 0.1640, 0.0677** is the 20% darker color. If you saturate the color by 10%, you get **10.7180, 0.1865, 0.0822**, and if you desaturate by 10%, it is **16.6406, 0.2135, 0.1160**.

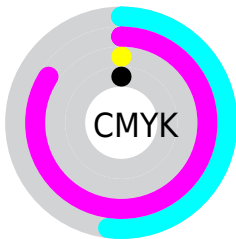
# Distribution



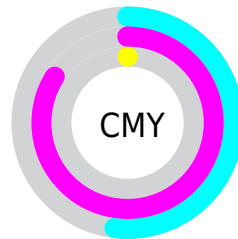
- Red (48%)
- Green (16%)
- Blue (100%)



- Red (48%)
- Yellow (16%)
- Blue (100%)



- Cyan (52%)
- Magenta (84%)
- Yellow (0%)
- Black (0%)




- Cyan (52%)
- Magenta (84%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 13.0168, 0.1990, 0.0959 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 13.0168, 0.1990, 0.0959 by changing the saturation by 10% instead.





 13.0168, 0.1990,  
0.0959


 13.0168, 0.1990,  
0.0959


211.0253, 0.2644,  
0.1994


 7.4401, 0.1821,  
0.0765


 31.3340, 0.2236,  
0.1290


 3.7388, 0.1610,  
0.0555


 44.8432, 0.2327,  
0.1428

 1.5286, 0.1346,  
0.0341


 61.7655, 0.2403,  
0.1551

 0.3087, 0.1026,  
0.0109

 82.4851, 0.2467,  
0.1660

 0.0000, 0.0648,  
0.0000

 107.3865, 0.2522,  
0.1758

 0.0000, 0.0030,  
0.0000

 136.8541, 0.2568,

 0.0000, 0.0000,

0.1845

0.0000

171.2722, 0.2609,  
0.1923

■ 13.0168, 0.1990,  
0.0959

■ 13.0168, 0.1990,  
0.0959

■ 10.7180, 0.1865,  
0.0822

■ 16.6406, 0.2135,  
0.1160

■ 9.7997, 0.1799,  
0.0765

■ 21.7894, 0.2291,  
0.1415

■ 28.6268, 0.2450,  
0.1707

■ 37.2944, 0.2605,  
0.2020

■ 47.9187, 0.2749,  
0.2335

60.6146, 0.2879,  
0.2641

75.4879, 0.2993,  
0.2929

92.6369, 0.3092,  
0.3193

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



13.0168, 0.0926, 0.0775



13.0168, 0.1990, 0.0959



13.0168, 0.4138, 0.1472

# Triad

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



13.0168, 0.1990, 0.0959



13.0168, 0.5972, 0.4028



13.0168, 0.0503, 0.3304

# Complementary

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



13.0168, 0.1990, 0.0959



80.5661, 0.3589, 0.5414

# 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.



13.0168, 0.1215, 0.7107



13.0168, 0.1990, 0.0959



13.0168, 0.4258, 0.5742

# Square

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



13.0168, 0.1990, 0.0959



13.0168, 0.7033, 0.2967



13.0168, 0.2480, 0.7520



13.0168, 0.0361, 0.1424



# Rectangle

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



13.0168, 0.1990, 0.0959



13.0168, 0.5869, 0.1969



13.0168, 0.2480, 0.7520



13.0168, 0.0658, 0.4492

# Sweetspot

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



13.0164, 0.1990, 0.0959



59.1400, 0.2865, 0.2609



38.9524, 0.1990, 0.2241



11.6691, 0.2821, 0.2502



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.



13.0164, 0.1990, 0.0959



9.7997, 0.1799, 0.0765



25.0506, 0.2924, 0.1455



17.7169, 0.3039, 0.3049



5.1997, 0.1816, 0.0774



0.5667, 0.1941, 0.0843



# Inverse Universe

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



25.8639, 0.4224, 0.2204



23.7048, 0.4502, 0.2254



72.9651, 0.3073, 0.5802



18.1755, 0.3197, 0.3144



12.4163, 0.4475, 0.2239

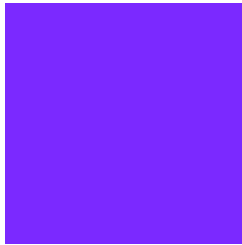


1.2303, 0.4291, 0.2138



# Previews

## White Background



This preview shows how the Yxy color 13.0168, 0.1990, 0.0959 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

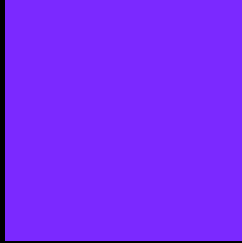
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 13.0168, 0.1990, 0.0959 looks on a black 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

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

**Yxy 13.0168, 0.1990, 0.0959**

## **Background**



This preview shows how black text looks on a background with the Yxy color 13.0168, 0.1990, 0.0959.



This preview shows how white text looks on a background with the Yxy color 13.0168, 0.1990, 0.0959.

# 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

13.0168, 0.1990, 0.0959

### Protanopia

12.9090, 0.1746, 0.1485

### Deuteranopia

12.9958, 0.1864, 0.1909



## Tritanopia

13.0009, 0.2708, 0.3105

# Trichromacy



**Original Color**

13.0168, 0.1990, 0.0959

**Protanomaly**

11.1934, 0.1717, 0.1127

**Deuteranomaly**

10.8024, 0.1773, 0.1284

**Tritanomaly**

11.2380, 0.2328, 0.1788

# Monochromacy



**Original Color**

13.0168, 0.1990, 0.0959

**Achromatopsia**

10.2242, 0.3127, 0.3290

**Achromatomaly**

9.6615, 0.2511, 0.1824

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 13.0168, 0.1990, 0.0959 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(123, 41, 255)` looks like.

```
.text, #text, p{  
    color:rgb(123, 41, 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(123, 41, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 41, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 13.0168, 0.1990, 0.0959 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(123, 41, 255) }
```

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

```
.border{ border-color:rgb(123, 41, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 41, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 41, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 41, 255);  
box-shadow:4px 4px 4px 4px rgb(123, 41,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 13.0168, 0.1990, 0.0959 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 41, 255) }
```

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

```
.background{ background-color: rgb(123, 41,  
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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