

Converting Colors

$Y_{xy}(12.7626, 0.2111, 0.1069)$

Have a look what the booklet for
Yxy(12.7626, 0.2111, 0.1069)
contains.

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Color

Yxy(12.8175, 0.2116, 0.1074)

Conversions

Conversions Part 1

Format	Color
Hex	8030ED
RGB	128, 48, 237
RGB Percent	50%, 19%, 93%
CMY	0.4978, 0.8120, 0.0705
CMYK	0.46, 0.80, 0.00, 0.07
HSL	265°, 84%, 56%
HSV	265°, 80%, 93%
XYZ	25.2531, 12.8175, 81.2730
YIQ	93.4660, -12.9890, 75.7390

Conversions

Conversions Part 2

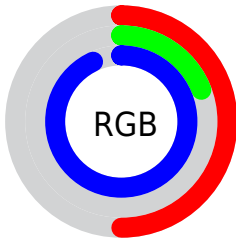
Format	Color
R _Y B	128, 48, 237
Decimal	8401133
CIE Lab	42.49, 69.34, -80.58
CIE LCh	42, 106.308, 310.710
Yxy	12.8175, 0.2116, 0.1074
Android (android.graphics.Color)	4286591213 (0xFF8030ED)
YUV	93.4660, 70.7623, 30.2863
Hunter-Lab	35.8015, 63.2547, -109.5330

Details

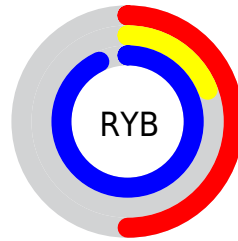
The Yxy color **12.8175, 0.2116, 0.1074** is a dark color, and the websafe version is hex **9933FF**. The color can be described as middle washed purple. A complement of this color would be **67.9447, 0.3542, 0.5384**, and the grayscale version is **10.8902, 0.3127, 0.3290**.

A 20% lighter version of the original color is **27.9394, 0.2593, 0.1647**, and **4.3520, 0.1770, 0.0749** is the 20% darker color. If you saturate the color by 10%, you get **10.3828, 0.1985, 0.0911**, and if you desaturate by 10%, it is **16.4290, 0.2261, 0.1295**.

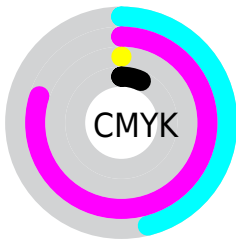
Distribution



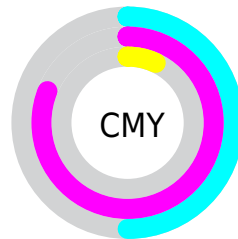
- Red (50%)
- Green (19%)
- Blue (93%)



- Red (50%)
- Yellow (19%)
- Blue (93%)



- Cyan (46%)
- Magenta (80%)
- Yellow (0%)
- Black (7%)





- Cyan (50%)
- Magenta (81%)
- Yellow (7%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8175, 0.2116, 0.1074 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 12.8175, 0.2116, 0.1074 by changing the saturation by 10% instead.


 12.8175, 0.2116,
0.1074


 12.8175, 0.2116,
0.1074

209.7447, 0.2714,
0.2097


 7.3030, 0.1953,
0.0870


 30.9755, 0.2347,
0.1411


 3.6523, 0.1745,
0.0644


 44.3878, 0.2430,
0.1549

 1.4810, 0.1475,
0.0405

 61.2015, 0.2499,
0.1670

 0.2753, 0.1136,
0.0124

 81.8010, 0.2557,
0.1777

 0.0000, 0.0714,
0.0000

 106.5707, 0.2605,
0.1871

 0.0000, 0.0000,
0.0000

 135.8949, 0.2647,

0.1955

170.1581, 0.2683,
0.2030

■ 12.8175, 0.2116,
0.1074

■ 12.8175, 0.2116,
0.1074

■ 10.3828, 0.1985,
0.0911

■ 16.4290, 0.2261,
0.1295

■ 8.8790, 0.1871,
0.0805

■ 21.3664, 0.2411,
0.1561

■ 8.8499, 0.1869,
0.0803

■ 27.7567, 0.2559,
0.1857

■ 35.7113, 0.2700,
0.2165

■ 45.3305, 0.2829,
0.2473

■ 56.7058, 0.2943,
0.2767

■ 69.9221, 0.3043,
0.3043

■ 85.0586, 0.3129,
0.3295

■ 98.1399, 0.3206,
0.3465

Harmonies

Analogous

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



12.8175, 0.1047, 0.0879



12.8175, 0.2116, 0.1074



12.8175, 0.4145, 0.1596

Triad

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



12.8175, 0.2116, 0.1074



12.8175, 0.5843, 0.4157



12.8175, 0.0625, 0.3275

Complementary

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



12.8175, 0.2116, 0.1074



67.9447, 0.3542, 0.5384

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.



12.8175, 0.1374, 0.6628



12.8175, 0.2116, 0.1074



12.8175, 0.4266, 0.5734

Square

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



12.8175, 0.2116, 0.1074



12.8175, 0.6814, 0.3119



12.8175, 0.2659, 0.7341



12.8175, 0.0458, 0.1531

Rectangle

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



12.8175, 0.2116, 0.1074



12.8175, 0.5716, 0.2093



12.8175, 0.2659, 0.7341



12.8175, 0.0794, 0.4318

Sweetspot

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



12.8178, 0.2116, 0.1074



60.8891, 0.2896, 0.2642



31.2741, 0.1988, 0.2161



12.0227, 0.2854, 0.2536



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.



12.8178, 0.2116, 0.1074



11.0151, 0.1908, 0.0838



23.6360, 0.3039, 0.1554



14.8609, 0.3046, 0.3051



4.9047, 0.1885, 0.0812



0.4407, 0.2040, 0.0898

Inverse Universe

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



22.5455, 0.4266, 0.2287



23.7241, 0.4596, 0.2322



61.8681, 0.3054, 0.5740



15.1996, 0.3203, 0.3155



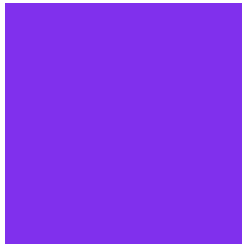
10.8358, 0.4636, 0.2328



0.8700, 0.4384, 0.2189

Previews

White Background



This preview shows how the Yxy color 12.8175, 0.2116, 0.1074 looks on a white background.

Color Contrast Check

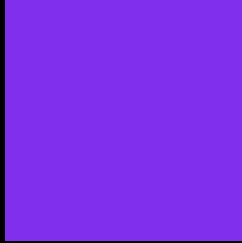
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.8175, 0.2116, 0.1074 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

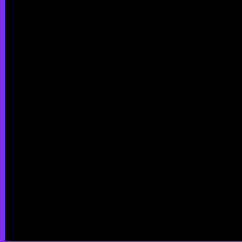
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8175, 0.2116, 0.1074

Background



This preview shows how black text looks on a background with the Yxy color 12.8175, 0.2116, 0.1074.



This preview shows how white text looks on a background with the Yxy color 12.8175, 0.2116, 0.1074.

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

12.8175, 0.2116, 0.1074

Protanopia

12.9090, 0.1746, 0.1485

Deuteranopia

12.7956, 0.1858, 0.1889



Tritanopia

12.6838, 0.2965, 0.3111

Trichromacy



Original Color

12.8175, 0.2116, 0.1074



Protanomaly

11.1542, 0.1745, 0.1189



Deuteranomaly

10.8681, 0.1805, 0.1357



Tritanomaly

11.4396, 0.2554, 0.1942

Monochromacy



Original Color

12.8175, 0.2116, 0.1074



Achromatopsia

10.9462, 0.3127, 0.3290



Achromatomaly

10.4163, 0.2626, 0.1995

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8175, 0.2116, 0.1074 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(128, 48, 237)` looks like.

```
.text, #text, p{  
    color:rgb(128, 48, 237)  
}
```

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(128, 48, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 48, 237) }
```

Border

The CSS property to change the border of an element to Yxy 12.8175, 0.2116, 0.1074 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(128, 48, 237) }
```

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

```
.border{ border-color:rgb(128, 48, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 48, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 48, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 48, 237);  
box-shadow:4px 4px 4px 4px rgb(128, 48,  
237) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8175, 0.2116, 0.1074 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 48, 237) }
```

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

```
.background{ background-color: rgb(128, 48,  
237) }
```

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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