

Converting Colors

$Y_{xy}(12.7629, 0.2405, 0.1098)$

Have a look what the booklet for
Yxy(12.7629, 0.2405, 0.1098)
contains.

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Color

Yxy(12.7811, 0.2400, 0.1096)

Conversions

Conversions Part 1

Format	Color
Hex	9C00E6
RGB	156, 0, 230
RGB Percent	61%, 0%, 90%
CMY	0.3883, 0.9993, 0.0981
CMYK	0.32, 1.00, 0.00, 0.10
HSL	281°, 100%, 45%
HSV	281°, 100%, 90%
XYZ	27.9878, 12.7811, 75.8470
YIQ	72.8640, 19.1460, 104.6020

Conversions

Conversions Part 2

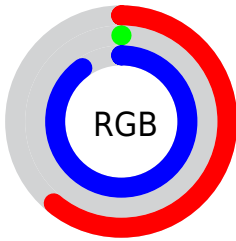
Format	Color
RYB	156, 0, 230
Decimal	10223846
CIELab	42.43, 80.78, -76.55
CIElCh	42, 111.291, 316.542
Yxy	12.7811, 0.2400, 0.1096
Android (android.graphics.Color)	4288413926 (0xFF9C00E6)
YUV	72.8640, 77.4680, 72.9103
Hunter-Lab	35.7507, 77.1771, -100.7615

Details

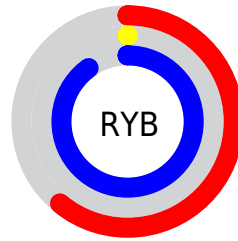
The Yxy color **12.7811, 0.2400, 0.1096** is a dark color, and the websafe version is hex **9933FF**. The color can be described as dark washed purple. A complement of this color would be **58.0514, 0.3153, 0.5878**, and the grayscale version is **6.5146, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.6273, 0.2839, 0.1625**, and **5.4500, 0.2127, 0.0945** is the 20% darker color. If you saturate the color by 10%, you get **12.7726, 0.2399, 0.1095**, and if you desaturate by 10%, it is **14.1588, 0.2482, 0.1180**.

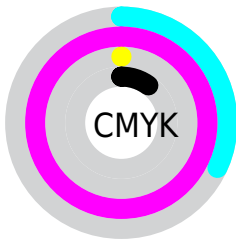
Distribution



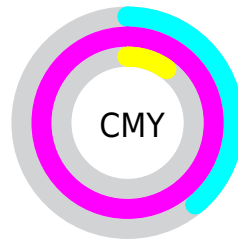
- Red (61%)
- Green (0%)
- Blue (90%)



- Red (61%)
- Yellow (0%)
- Blue (90%)



- Cyan (32%)
- Magenta (100%)
- Yellow (0%)
- Black (10%)





- Cyan (39%)
- Magenta (100%)
- Yellow (10%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.7811, 0.2400, 0.1096 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 12.7811, 0.2400, 0.1096 by changing the saturation by 10% instead.


 12.7811, 0.2400,
0.1096


 12.7811, 0.2400,
0.1096


209.5100, 0.2862,
0.2107


 7.2780, 0.2264,
0.0893


 30.9100, 0.2586,
0.1431

 3.6366, 0.2082,
0.0665


 44.3045, 0.2651,
0.1567


 1.4724, 0.1836,
0.0423


 61.0983, 0.2704,
0.1686


 0.2692, 0.1511,
0.0130

 81.6757, 0.2747,
0.1791

 0.0000, 0.1062,
0.0000

 106.4212, 0.2783,
0.1884

 0.0000, 0.0220,
0.0000

 135.7192, 0.2813,

 0.0000, 0.0000,

0.1967

0.0000

169.9540, 0.2839,
0.2041

■ 12.7811, 0.2400,
0.1096

■ 12.7811, 0.2400,
0.1096

■ 12.7726, 0.2399,
0.1095

■ 14.1588, 0.2482,
0.1180

■ 16.3136, 0.2568,
0.1309

■ 19.4770, 0.2657,
0.1486

■ 23.7843, 0.2744,
0.1705

■ 29.3494, 0.2827,
0.1956

■ 36.2722, 0.2904,
0.2226

■ 44.6422, 0.2973,
0.2503

■ 54.5411, 0.3033,
0.2778

■ 66.0447, 0.3084,
0.3043

Harmonies

Analogous

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



12.7811, 0.1144, 0.0843



12.7811, 0.2400, 0.1096



12.7811, 0.4676, 0.1683

Triad

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



12.7811, 0.2400, 0.1096



12.7811, 0.5604, 0.4396



12.7811, 0.0498, 0.2736

Complementary

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



12.7811, 0.2400, 0.1096



58.0514, 0.3153, 0.5878

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.



12.7811, 0.1086, 0.6163



12.7811, 0.2400, 0.1096



12.7811, 0.3884, 0.6116

Square

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



12.7811, 0.2400, 0.1096



12.7811, 0.6782, 0.3218



12.7811, 0.2295, 0.7705



12.7811, 0.0417, 0.1300

Rectangle

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



12.7811, 0.2400, 0.1096



12.7811, 0.6212, 0.2193



12.7811, 0.2295, 0.7705



12.7811, 0.0617, 0.3674

Sweetspot

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



12.7815, 0.2400, 0.1096



56.1432, 0.2971, 0.2497



10.9899, 0.1627, 0.1057



11.0118, 0.2943, 0.2379



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.



12.7815, 0.2400, 0.1096



16.0901, 0.2395, 0.1093



20.6168, 0.3688, 0.1806



14.3704, 0.3087, 0.3055



7.3004, 0.2412, 0.1102



0.5890, 0.2531, 0.1168

Inverse Universe

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



17.3218, 0.5716, 0.2923



21.8711, 0.5732, 0.2931



56.7320, 0.2963, 0.5867



14.4441, 0.3242, 0.3215



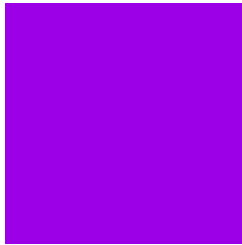
9.8245, 0.5677, 0.2901



0.7425, 0.5263, 0.2673

Previews

White Background



This preview shows how the Yxy color 12.7811, 0.2400, 0.1096 looks on a white background.

Color Contrast Check

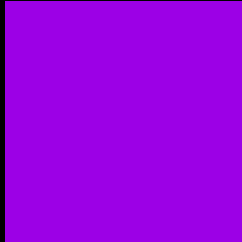
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.7811, 0.2400, 0.1096 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

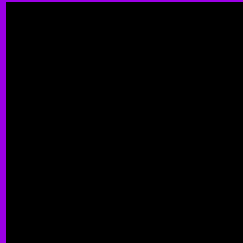
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.7811, 0.2400, 0.1096

Background



This preview shows how black text looks on a background with the Yxy color 12.7811, 0.2400, 0.1096.



This preview shows how white text looks on a background with the Yxy color 12.7811, 0.2400, 0.1096.

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

12.7811, 0.2400, 0.1096

Protanopia

13.2404, 0.1744, 0.1477

Deuteranopia

13.3578, 0.1855, 0.1879



Tritanopia

13.0809, 0.3700, 0.3157

Trichromacy



Original Color

12.7811, 0.2400, 0.1096



Protanomaly

9.2214, 0.1739, 0.1023



Deuteranomaly

8.9614, 0.1797, 0.1160



Tritanomaly

10.6333, 0.3129, 0.1895

Monochromacy



Original Color

12.7811, 0.2400, 0.1096



Achromatopsia

6.6626, 0.3127, 0.3290



Achromatomaly

6.5283, 0.2729, 0.1675

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.7811, 0.2400, 0.1096 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(156, 0, 230)` looks like.

```
.text, #text, p{  
  color:rgb(156, 0, 230)  
}
```

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(156, 0, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(156, 0, 230) }
```

Border

The CSS property to change the border of an element to Yxy 12.7811, 0.2400, 0.1096 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(156, 0, 230) }
```

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

```
.border{ border-color:rgb(156, 0, 230) }
```

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

Here you see how a box with a 4 pixel rgb(156, 0, 230) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(156, 0, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(156, 0, 230);  
box-shadow:4px 4px 4px 4px rgb(156, 0,  
230) }
```


Background

The CSS property to change the background color of an element to Yxy 12.7811, 0.2400, 0.1096 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(156, 0, 230) }
```

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

```
.background{ background-color: rgb(156, 0,  
230) }
```

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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