

Converting Colors

$Y_{xy}(12.2428, 0.2597, 0.1204)$

Have a look what the booklet for
Yxy(12.2428, 0.2597, 0.1204)
contains.

Yxy(12.2270, 0.2590, 0.1200)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(12.2270, 0.2590, 0.1200)

Conversions

Conversions Part 1

Format	Color
Hex	A000D4
RGB	160, 0, 212
RGB Percent	63%, 0%, 83%
CMY	0.3724, 1.0000, 0.1685
CMYK	0.25, 1.00, 0.00, 0.17
HSL	285°, 100%, 42%
HSV	285°, 100%, 83%
XYZ	26.3899, 12.2270, 63.2747
YIQ	72.0080, 27.3080, 99.8520

Conversions

Conversions Part 2

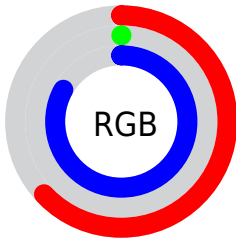
Format	Color
RYB	160, 0, 212
Decimal	10485972
CIELab	41.57, 78.02, -67.63
CIElCh	42, 103.255, 319.080
Yxy	12.2270, 0.2590, 0.1200
Android (android.graphics.Color)	4288676052 (0xFFA000D4)
YUV	72.0080, 69.0161, 77.1690
Hunter-Lab	34.9671, 73.5228, -82.8112

Details

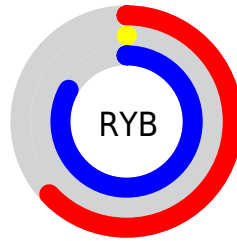
The Yxy color **12.2270, 0.2590, 0.1200** is a dark color, and the websafe version is hex **9900CC**. The color can be described as dark washed purple. A complement of this color would be **47.8305, 0.3093, 0.5926**, and the grayscale version is **6.3610, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.9326, 0.2867, 0.1632**, and **5.1670, 0.2349, 0.1068** is the 20% darker color. If you saturate the color by 10%, you get **12.2331, 0.2590, 0.1200**, and if you desaturate by 10%, it is **13.3241, 0.2654, 0.1275**.

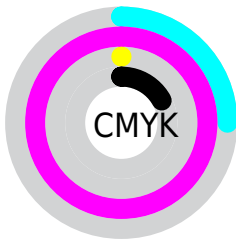
Distribution



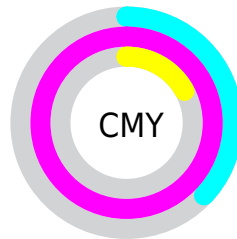
- Red (63%)
- Green (0%)
- Blue (83%)



- Red (63%)
- Yellow (0%)
- Blue (83%)



- Cyan (25%)
- Magenta (100%)
- Yellow (0%)
- Black (17%)





- Cyan (37%)
- Magenta (100%)
- Yellow (17%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.2270, 0.2590, 0.1200 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 12.2270, 0.2590, 0.1200 by changing the saturation by 10% instead.


 12.2270, 0.2590,
0.1200


 12.2270, 0.2590,
0.1200


205.9023, 0.2954,
0.2196


 6.8985, 0.2472,
0.0989


 29.9079, 0.2743,
0.1539

 3.3987, 0.2309,
0.0747


 43.0290, 0.2795,
0.1674


 1.3432, 0.2077,
0.0481

 59.5164, 0.2836,
0.1791

 0.1743, 0.1759,
0.0111

 79.7546, 0.2869,
0.1893

 0.0000, 0.1260,
0.0000

 104.1279, 0.2896,
0.1983

 0.0000, 0.0000,
0.0000

 133.0207, 0.2919,

0.2062

166.8174, 0.2938,
0.2133

■ 12.2270, 0.2590,
0.1200

■ 12.2270, 0.2590,
0.1200

■ 12.2331, 0.2590,
0.1200

■ 13.3241, 0.2654,
0.1275

■ 15.0351, 0.2720,
0.1391

■ 17.5658, 0.2787,
0.1553

■ 21.0264, 0.2851,
0.1756

■ 25.5095, 0.2912,
0.1992

■ 31.0965, 0.2968,
0.2249

■ 37.8605, 0.3018,
0.2516

■ 45.8681, 0.3061,
0.2783

■ 55.1811, 0.3097,
0.3043

Harmonies

Analogous

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



12.2270, 0.1280, 0.0919



12.2270, 0.2590, 0.1200



12.2270, 0.4809, 0.1810

Triad

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



12.2270, 0.2590, 0.1200



12.2270, 0.5441, 0.4559



12.2270, 0.0554, 0.2609

Complementary

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



12.2270, 0.2590, 0.1200



47.8305, 0.3093, 0.5926

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.



12.2270, 0.1117, 0.5681



12.2270, 0.2590, 0.1200



12.2270, 0.3800, 0.6200

Square

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



12.2270, 0.2590, 0.1200



12.2270, 0.6620, 0.3380



12.2270, 0.2304, 0.7522



12.2270, 0.0483, 0.1321

Rectangle

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



12.2270, 0.2590, 0.1200



12.2270, 0.6200, 0.2323



12.2270, 0.2304, 0.7522



12.2270, 0.0667, 0.3434

Sweetspot

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



12.2331, 0.2590, 0.1200



57.1349, 0.3017, 0.2507



7.3017, 0.1576, 0.0875



11.2497, 0.2996, 0.2393



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.



12.2331, 0.2590, 0.1200



18.4895, 0.2584, 0.1197



16.5051, 0.3971, 0.1961



12.4722, 0.3099, 0.3057



7.5988, 0.2599, 0.1205



0.4958, 0.2709, 0.1266

Inverse Universe

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



14.2490, 0.5966, 0.3060



21.6135, 0.5990, 0.3074



47.3580, 0.2922, 0.5721



12.4702, 0.3253, 0.3233



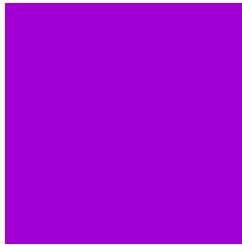
8.8075, 0.5932, 0.3041



0.5445, 0.5433, 0.2767

Previews

White Background



This preview shows how the Yxy color 12.2270, 0.2590, 0.1200 looks on a white background.

Color Contrast Check

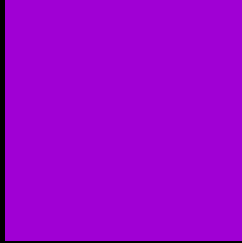
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.2270, 0.2590, 0.1200 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

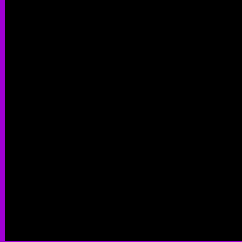
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.2270, 0.2590, 0.1200

Background



This preview shows how black text looks on a background with the Yxy color 12.2270, 0.2590, 0.1200.



This preview shows how white text looks on a background with the Yxy color 12.2270, 0.2590, 0.1200.

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

12.2270, 0.2590, 0.1200

Protanopia

12.9090, 0.1746, 0.1485

Deuteranopia

12.7171, 0.1842, 0.1832



Tritanopia

12.5705, 0.4021, 0.3183

Trichromacy



Original Color

12.2270, 0.2590, 0.1200



Protanomaly

8.8498, 0.1763, 0.1059



Deuteranomaly

8.3978, 0.1822, 0.1183



Tritanomaly

10.5633, 0.3420, 0.2031

Monochromacy



Original Color

12.2270, 0.2590, 0.1200



Achromatopsia

6.4803, 0.3127, 0.3290



Achromatomaly

6.3271, 0.2850, 0.1757

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.2270, 0.2590, 0.1200 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(160, 0, 212)` looks like.

```
.text, #text, p{  
    color:rgb(160, 0, 212)  
}
```

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(160, 0, 212) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(160, 0, 212) }
```

Border

The CSS property to change the border of an element to Yxy 12.2270, 0.2590, 0.1200 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(160, 0, 212) }
```

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

```
.border{ border-color:rgb(160, 0, 212) }
```

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

Here you see how a box with a 4 pixel rgb(160, 0, 212) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(160, 0, 212); -webkit-box-  
shadow:4px 4px 4px 4px rgb(160, 0, 212);  
box-shadow:4px 4px 4px 4px rgb(160, 0,  
212) }
```


Background

The CSS property to change the background color of an element to Yxy 12.2270, 0.2590, 0.1200 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(160, 0, 212) }
```

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

```
.background{ background-color: rgb(160, 0,  
212) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor