

Converting Colors

$Y_{xy}(13.3450, 0.2436, 0.1143)$

Have a look what the booklet for
Yxy(13.3450, 0.2436, 0.1143)
contains.

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Color

Yxy(13.3589, 0.2432, 0.1142)

Conversions

Conversions Part 1

Format	Color
Hex	9E12E5
RGB	158, 18, 229
RGB Percent	62%, 7%, 90%
CMY	0.3805, 0.9286, 0.1022
CMYK	0.31, 0.92, 0.00, 0.10
HSL	280°, 85%, 48%
HSV	280°, 92%, 90%
XYZ	28.4491, 13.3589, 75.1701
YIQ	83.9140, 15.7090, 95.3010

Conversions

Conversions Part 2

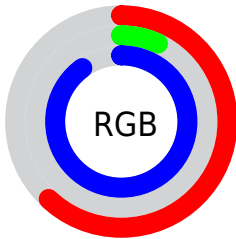
Format	Color
R_{YB}	158, 18, 229
Decimal	10359525
CIE _{Lab}	43.30, 78.86, -74.52
CIE _{LCh}	43, 108.503, 316.620
Yxy	13.3589, 0.2432, 0.1142
Android (android.graphics.Color)	4288549605 (0xFF9E12E5)
YUV	83.9140, 71.5274, 64.9734
Hunter-Lab	36.5498, 74.9758, -96.3538

Details

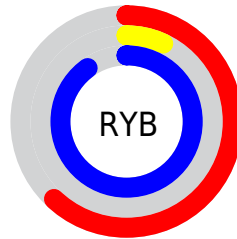
The Yxy color **13.3589, 0.2432, 0.1142** is a dark color, and the websafe version is hex **9933FF**. The color can be described as middle washed purple. A complement of this color would be **58.1873, 0.3208, 0.5787**, and the grayscale version is **8.7169, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.6076, 0.2849, 0.1664**, and **5.5752, 0.2171, 0.0969** is the 20% darker color. If you saturate the color by 10%, you get **12.3143, 0.2365, 0.1076**, and if you desaturate by 10%, it is **15.3191, 0.2521, 0.1262**.

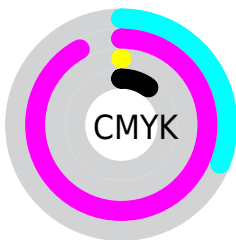
Distribution



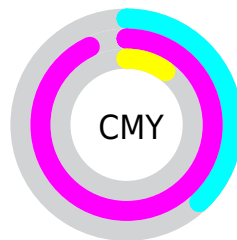
- Red (62%)
- Green (7%)
- Blue (90%)



- Red (62%)
- Yellow (7%)
- Blue (90%)



- Cyan (31%)
- Magenta (92%)
- Yellow (0%)
- Black (10%)



- Cyan (38%)
- Magenta (93%)
- Yellow (10%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 13.3589, 0.2432, 0.1142 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 13.3589, 0.2432, 0.1142 by changing the saturation by 10% instead.


 13.3589, 0.2432,
0.1142


 13.3589, 0.2432,
0.1142


213.2052, 0.2873,
0.2137


 7.6761, 0.2301,
0.0939


 31.9471, 0.2610,
0.1473


 3.8884, 0.2126,
0.0711


 45.6213, 0.2672,
0.1607

 1.6113, 0.1887,
0.0463


 62.7281, 0.2723,
0.1725

 0.3652, 0.1567,
0.0177

 83.6519, 0.2764,
0.1828

 0.0000, 0.1124,
0.0000

 108.7772, 0.2798,
0.1919

 0.0000, 0.0303,
0.0000

 138.4882, 0.2827,

 0.0000, 0.0000,

0.2000

0.0000

173.1694, 0.2852,
0.2072

■ 13.3589, 0.2432,
0.1142

■ 13.3589, 0.2432,
0.1142

■ 12.3143, 0.2365,
0.1076

■ 15.3191, 0.2521,
0.1262

■ 18.2485, 0.2613,
0.1432

■ 22.2877, 0.2705,
0.1646

■ 27.5530, 0.2793,
0.1894

■ 34.1458, 0.2875,
0.2164

■ 42.1566, 0.2950,
0.2442

■ 51.6680, 0.3015,
0.2719

■ 62.7561, 0.3071,
0.2987

■ 75.4915, 0.3118,
0.3240

Harmonies

Analogous

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



13.3589, 0.1189, 0.0887



13.3589, 0.2432, 0.1142



13.3589, 0.4635, 0.1728

Triad

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



13.3589, 0.2432, 0.1142



13.3589, 0.5573, 0.4427



13.3589, 0.0550, 0.2770

Complementary

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



13.3589, 0.2432, 0.1142



58.1873, 0.3208, 0.5787

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.



13.3589, 0.1158, 0.6025



13.3589, 0.2432, 0.1142



13.3589, 0.3919, 0.6081

Square

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



13.3589, 0.2432, 0.1142



13.3589, 0.6719, 0.3281



13.3589, 0.2390, 0.7605



13.3589, 0.0457, 0.1353

Rectangle

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



13.3589, 0.2432, 0.1142



13.3589, 0.6114, 0.2239



13.3589, 0.2390, 0.7605



13.3589, 0.0675, 0.3672

Sweetspot

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



13.3593, 0.2432, 0.1142



58.3161, 0.2976, 0.2551



13.4322, 0.1696, 0.1251



11.4134, 0.2947, 0.2429



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.



13.3593, 0.2432, 0.1142



15.6681, 0.2360, 0.1074



21.1353, 0.3594, 0.1782



14.3594, 0.3084, 0.3055



7.1129, 0.2377, 0.1083



0.5761, 0.2500, 0.1151

Inverse Universe

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



17.8129, 0.5426, 0.2816



21.9300, 0.5677, 0.2901



56.3695, 0.2955, 0.5778



14.4477, 0.3240, 0.3211



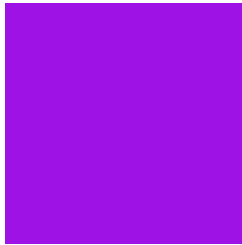
9.8517, 0.5621, 0.2870



0.7448, 0.5211, 0.2644

Previews

White Background



This preview shows how the Yxy color 13.3589, 0.2432, 0.1142 looks on a white background.

Color Contrast Check

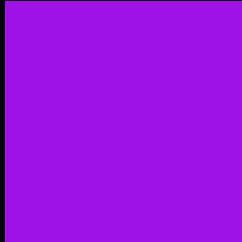
Large Text (above 18pt) WCAG AA ✓ Pass

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 13.3589, 0.2432, 0.1142 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

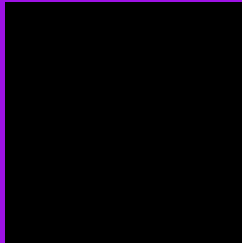
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 13.3589, 0.2432, 0.1142

Background



This preview shows how black text looks on a background with the Yxy color 13.3589, 0.2432, 0.1142.



This preview shows how white text looks on a background with the Yxy color 13.3589, 0.2432, 0.1142.

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

13.3589, 0.2432, 0.1142

Protanopia

13.7675, 0.1746, 0.1485

Deuteranopia

13.6855, 0.1851, 0.1863



Tritanopia

13.4961, 0.3742, 0.3178

Trichromacy



Original Color

13.3589, 0.2432, 0.1142



Protanomaly

10.2599, 0.1756, 0.1098



Deuteranomaly

9.8909, 0.1817, 0.1244



Tritanomaly

11.6646, 0.3157, 0.2009

Monochromacy



Original Color

13.3589, 0.2432, 0.1142



Achromatopsia

8.8656, 0.3127, 0.3290



Achromatomaly

8.4174, 0.2774, 0.1841

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.3589, 0.2432, 0.1142 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(158, 18, 229)` looks like.

```
.text, #text, p{  
    color:rgb(158, 18, 229)  
}
```

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(158, 18, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(158, 18, 229) }
```

Border

The CSS property to change the border of an element to Yxy 13.3589, 0.2432, 0.1142 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(158, 18, 229) }
```

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

```
.border{ border-color:rgb(158, 18, 229) }
```

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

Here you see how a box with a 4 pixel `rgb(158, 18, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(158, 18, 229); -webkit-box-shadow:4px 4px 4px 4px rgb(158, 18, 229); box-shadow:4px 4px 4px 4px rgb(158, 18, 229) }
```


Background

The CSS property to change the background color of an element to Yxy 13.3589, 0.2432, 0.1142 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(158, 18, 229) }
```

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

```
.background{ background-color: rgb(158, 18,  
229) }
```

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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