

Converting Colors

$Y_{xy}(12.3786, 0.2413, 0.1103)$

Have a look what the booklet for
Yxy(12.3786, 0.2413, 0.1103)
contains.

Yxy(12.3610, 0.2409, 0.1100)	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(12.3610, 0.2409, 0.1100)

Conversions

Conversions Part 1

Format	Color
Hex	9A00E2
RGB	154, 0, 226
RGB Percent	60%, 0%, 89%
CMY	0.3957, 1.0000, 0.1136
CMYK	0.32, 1.00, 0.00, 0.11
HSL	281°, 100%, 44%
HSV	281°, 100%, 89%
XYZ	27.0706, 12.3610, 72.9411
YIQ	71.8100, 19.2380, 102.9340

Conversions

Conversions Part 2

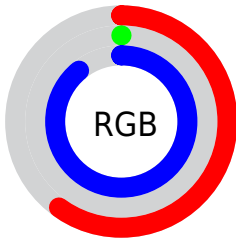
Format	Color
RYB	154, 0, 226
Decimal	10092770
CIELab	41.78, 79.90, -75.37
CIElCh	42, 109.840, 316.671
Yxy	12.3610, 0.2409, 0.1100
Android (android.graphics.Color)	4288282850 (0xFF9A00E2)
YUV	71.8100, 76.0157, 72.0806
Hunter-Lab	35.1582, 75.9119, -98.3955

Details

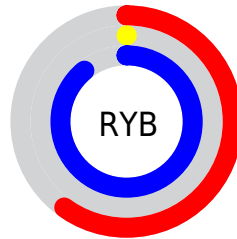
The Yxy color **12.3610, 0.2409, 0.1100** is a dark color, and the websafe version is hex **9933FF**. The color can be described as dark washed purple. A complement of this color would be **55.7919, 0.3149, 0.5881**, and the grayscale version is **6.3172, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.0131, 0.2810, 0.1606**, and **5.2443, 0.2143, 0.0954** is the 20% darker color. If you saturate the color by 10%, you get **12.3720, 0.2409, 0.1101**, and if you desaturate by 10%, it is **13.6971, 0.2490, 0.1185**.

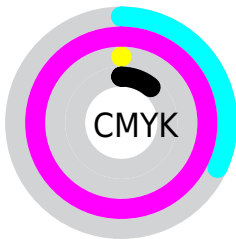
Distribution



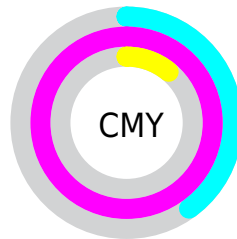
- Red (60%)
- Green (0%)
- Blue (89%)



- Red (60%)
- Yellow (0%)
- Blue (89%)



- Cyan (32%)
- Magenta (100%)
- Yellow (0%)
- Black (11%)





- Cyan (40%)
- Magenta (100%)
- Yellow (11%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.3610, 0.2409, 0.1100 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 12.3610, 0.2409, 0.1100 by changing the saturation by 10% instead.


 12.3610, 0.2409,
0.1100


 12.3610, 0.2409,
0.1100


206.7808, 0.2868,
0.2117


 6.9900, 0.2272,
0.0894


 30.1509, 0.2595,
0.1438


 3.4559, 0.2088,
0.0663


 43.3386, 0.2660,
0.1575

 1.3741, 0.1838,
0.0417


 59.9007, 0.2712,
0.1695

 0.1975, 0.1509,
0.0102

 80.2216, 0.2755,
0.1801

 0.0000, 0.1044,
0.0000

 104.6857, 0.2791,
0.1894

 0.0000, 0.0067,
0.0000

 133.6773, 0.2821,

 0.0000, 0.0000,

0.1977

0.0000

167.5809, 0.2846,
0.2051

■ 12.3610, 0.2409,
0.1100

■ 12.3610, 0.2409,
0.1100

■ 12.3720, 0.2409,
0.1101

■ 13.6971, 0.2490,
0.1185

■ 15.7636, 0.2576,
0.1313

■ 18.7972, 0.2663,
0.1489

■ 22.9276, 0.2749,
0.1707

■ 28.2640, 0.2831,
0.1957

■ 34.9020, 0.2907,
0.2226

■ 42.9275, 0.2975,
0.2503

■ 52.4191, 0.3034,
0.2777

■ 63.4490, 0.3085,
0.3041

Harmonies

Analogous

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



12.3610, 0.1149, 0.0846



12.3610, 0.2409, 0.1100



12.3610, 0.4684, 0.1689

Triad

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



12.3610, 0.2409, 0.1100



12.3610, 0.5596, 0.4404



12.3610, 0.0499, 0.2728

Complementary

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



12.3610, 0.2409, 0.1100



55.7919, 0.3149, 0.5881

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.



12.3610, 0.1086, 0.6140



12.3610, 0.2409, 0.1100



12.3610, 0.3878, 0.6122

Square

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



12.3610, 0.2409, 0.1100



12.3610, 0.6775, 0.3225



12.3610, 0.2295, 0.7705



12.3610, 0.0419, 0.1300

Rectangle

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



12.3610, 0.2409, 0.1100



12.3610, 0.6214, 0.2199



12.3610, 0.2295, 0.7705



12.3610, 0.0618, 0.3661

Sweetspot

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



12.3720, 0.2409, 0.1101



56.1906, 0.2973, 0.2497



10.5728, 0.1627, 0.1057



11.0232, 0.2946, 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.



12.3720, 0.2409, 0.1101



16.1989, 0.2404, 0.1098



19.8224, 0.3688, 0.1805



13.7055, 0.3087, 0.3055



7.1215, 0.2422, 0.1108



0.5409, 0.2546, 0.1176

Inverse Universe

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



16.6429, 0.5729, 0.2930



21.8567, 0.5746, 0.2939



54.5538, 0.2963, 0.5867



13.7721, 0.3242, 0.3216



9.5099, 0.5688, 0.2907



0.6751, 0.5249, 0.2665

Previews

White Background



This preview shows how the Yxy color 12.3610, 0.2409, 0.1100 looks on a white background.

Color Contrast Check

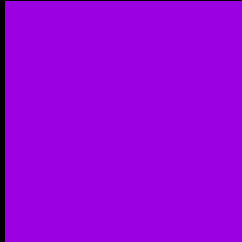
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.3610, 0.2409, 0.1100 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

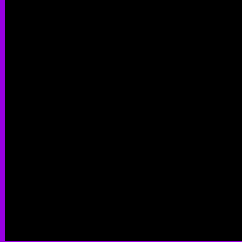
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.3610, 0.2409, 0.1100

Background



This preview shows how black text looks on a background with the Yxy color 12.3610, 0.2409, 0.1100.



This preview shows how white text looks on a background with the Yxy color 12.3610, 0.2409, 0.1100.

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

12.3610, 0.2409, 0.1100

Protanopia

12.9090, 0.1746, 0.1485

Deuteranopia

12.8748, 0.1851, 0.1864



Tritanopia

12.6310, 0.3727, 0.3156

Trichromacy



Original Color

12.3610, 0.2409, 0.1100



Protanomaly

9.0395, 0.1741, 0.1033



Deuteranomaly

8.6773, 0.1798, 0.1162



Tritanomaly

10.3005, 0.3129, 0.1894

Monochromacy



Original Color

12.3610, 0.2409, 0.1100



Achromatopsia

6.4803, 0.3127, 0.3290



Achromatomaly

6.3373, 0.2740, 0.1677

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.3610, 0.2409, 0.1100 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(154, 0, 226)` looks like.

```
.text, #text, p{  
    color:rgb(154, 0, 226)  
}
```

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(154, 0, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(154, 0, 226) }
```

Border

The CSS property to change the border of an element to Yxy 12.3610, 0.2409, 0.1100 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(154, 0, 226) }
```

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

```
.border{ border-color:rgb(154, 0, 226) }
```

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

Here you see how a box with a 4 pixel rgb(154, 0, 226) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(154, 0, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(154, 0, 226);  
box-shadow:4px 4px 4px 4px rgb(154, 0,  
226) }
```


Background

The CSS property to change the background color of an element to Yxy 12.3610, 0.2409, 0.1100 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(154, 0, 226) }
```

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

```
.background{ background-color: rgb(154, 0,  
226) }
```

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