

Converting Colors

$Y_{xy}(12.2076, 0.2453, 0.1368)$

Have a look what the booklet for
Yxy(12.2076, 0.2453, 0.1368)
contains.

Yxy(12.1861, 0.2450, 0.1365)	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(12.1861, 0.2450, 0.1365)

Conversions

Conversions Part 1

Format	Color
Hex	8838C7
RGB	136, 56, 199
RGB Percent	53%, 22%, 78%
CMY	0.4667, 0.7803, 0.2197
CMYK	0.32, 0.72, 0.00, 0.22
HSL	274°, 56%, 50%
HSV	274°, 72%, 78%
XYZ	21.8725, 12.1861, 55.2169
YIQ	96.2220, 1.7770, 61.4330

Conversions

Conversions Part 2

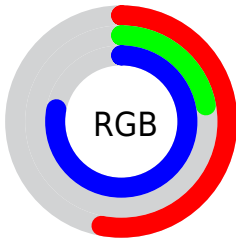
Format	Color
R_{YB}	136, 56, 199
Decimal	8927431
CIE _{Lab}	41.51, 58.51, -60.33
CIE _{LCh}	42, 84.046, 314.121
Yxy	12.1861, 0.2450, 0.1365
Android (android.graphics.Color)	4287117511 (0xFF8838C7)
YUV	96.2220, 50.6696, 34.8853
Hunter-Lab	34.9086, 50.7517, -69.3463

Details

The Yxy color **12.1861, 0.2450, 0.1365** is a dark color, and the websafe version is hex **9933CC**. The color can be described as dark muted purple. A complement of this color would be **45.0438, 0.3393, 0.5317**, and the grayscale version is **11.6305, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.8412, 0.2642, 0.1718**, and **3.6759, 0.2140, 0.0952** is the 20% darker color. If you saturate the color by 10%, you get **9.9210, 0.2333, 0.1174**, and if you desaturate by 10%, it is **15.2782, 0.2568, 0.1600**.

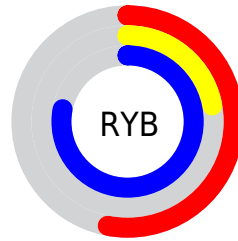
Distribution



Red (53%)

Green (22%)

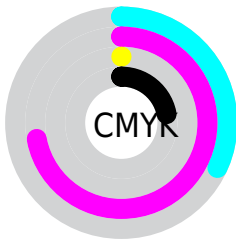
Blue (78%)



Red (53%)

Yellow (22%)

Blue (78%)

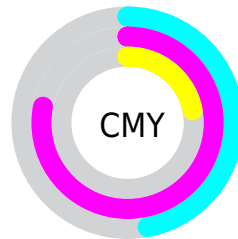


Cyan (32%)

Magenta (72%)

Yellow (0%)

Black (22%)



Cyan (47%)


Magenta (78%)


Yellow (22%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.1861, 0.2450, 0.1365 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 12.1861, 0.2450, 0.1365 by changing the saturation by 10% instead.


 12.1861, 0.2450,
0.1365


 12.1861, 0.2450,
0.1365


205.6335, 0.2879,
0.2326


 6.8706, 0.2316,
0.1147


 29.8336, 0.2627,
0.1703


 3.3813, 0.2131,
0.0888


 42.9343, 0.2687,
0.1834

 1.3339, 0.1869,
0.0590

 59.3989, 0.2735,
0.1947

 0.1672, 0.1512,
0.0138

 79.6118, 0.2775,
0.2044

 0.0000, 0.0908,
0.0000

 103.9572, 0.2808,
0.2128

 0.0000, 0.0000,
0.0000

 132.8197, 0.2835,

0.2202

166.5837, 0.2858,
0.2267

■ 12.1861, 0.2450,
0.1365

■ 12.1861, 0.2450,
0.1365

■ 9.9210, 0.2333,
0.1174

■ 15.2782, 0.2568,
0.1600

■ 8.3834, 0.2223,
0.1034

■ 19.2786, 0.2683,
0.1867

■ 7.5218, 0.2139,
0.0952

■ 24.2599, 0.2791,
0.2151

■ 30.2868, 0.2889,
0.2440

■ 37.4182, 0.2976,
0.2723

■ 45.7087, 0.3052,
0.2993

■ 55.2092, 0.3116,
0.3246

■ 65.9674, 0.3171,
0.3478

■ 78.0284, 0.3216,
0.3688

Harmonies

Analogous

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



12.1861, 0.1372, 0.1137



12.1861, 0.2450, 0.1365



12.1861, 0.4220, 0.1904

Triad

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



12.1861, 0.2450, 0.1365



12.1861, 0.5536, 0.4464



12.1861, 0.0898, 0.3124

Complementary

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



12.1861, 0.2450, 0.1365



45.0438, 0.3393, 0.5317

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.



12.1861, 0.1630, 0.5605



12.1861, 0.2450, 0.1365



12.1861, 0.4232, 0.5768

Square

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



12.1861, 0.2450, 0.1365



12.1861, 0.6296, 0.3446



12.1861, 0.2848, 0.6719



12.1861, 0.0711, 0.1727

Rectangle

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



12.1861, 0.2450, 0.1365



12.1861, 0.5450, 0.2393



12.1861, 0.2848, 0.6719



12.1861, 0.1070, 0.3882

Sweetspot

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



12.1865, 0.2450, 0.1365



64.8905, 0.2972, 0.2710



18.4817, 0.1994, 0.1971



13.1169, 0.2949, 0.2633



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.



12.1865, 0.2450, 0.1365



15.7709, 0.2273, 0.1091



18.7676, 0.3288, 0.1791



10.5751, 0.3069, 0.3057



4.8906, 0.2153, 0.0959



0.2740, 0.2367, 0.1078

Inverse Universe

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



16.3016, 0.4441, 0.2559



24.1785, 0.4877, 0.2561



42.0377, 0.2995, 0.5486



10.7133, 0.3222, 0.3189



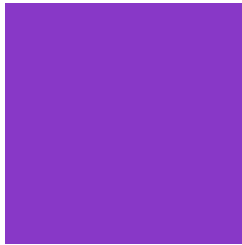
8.2743, 0.5189, 0.2632



0.4063, 0.4673, 0.2348

Previews

White Background



This preview shows how the Yxy color 12.1861, 0.2450, 0.1365 looks on a white background.

Color Contrast Check

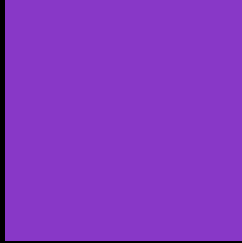
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.1861, 0.2450, 0.1365 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

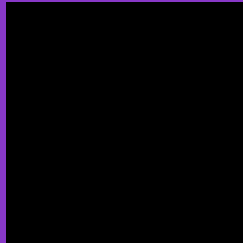
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.1861, 0.2450, 0.1365

Background



This preview shows how black text looks on a background with the Yxy color 12.1861, 0.2450, 0.1365.



This preview shows how white text looks on a background with the Yxy color 12.1861, 0.2450, 0.1365.

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

12.1861, 0.2450, 0.1365

Protanopia

12.4015, 0.1744, 0.1478

Deuteranopia

12.2095, 0.1841, 0.1829



Tritanopia

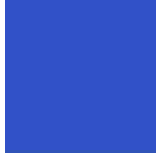
12.1459, 0.3438, 0.3144

Trichromacy



Original Color

12.1861, 0.2450, 0.1365



Protanomaly

10.7080, 0.1800, 0.1317



Deuteranomaly

10.4543, 0.1864, 0.1489



Tritanomaly

11.4831, 0.3009, 0.2242

Monochromacy



Original Color

12.1861, 0.2450, 0.1365



Achromatopsia

11.6971, 0.3127, 0.3290



Achromatomaly

10.9578, 0.2845, 0.2270

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.1861, 0.2450, 0.1365 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(136, 56, 199)` looks like.

```
.text, #text, p{  
  color:rgb(136, 56, 199)  
}
```

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(136, 56, 199) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 56, 199) }
```

Border

The CSS property to change the border of an element to Yxy 12.1861, 0.2450, 0.1365 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(136, 56, 199) }
```

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

```
.border{ border-color:rgb(136, 56, 199) }
```

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

Here you see how a box with a 4 pixel `rgb(136, 56, 199)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 56, 199); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 56, 199);  
box-shadow:4px 4px 4px 4px rgb(136, 56,  
199) }
```


Background

The CSS property to change the background color of an element to Yxy 12.1861, 0.2450, 0.1365 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 56, 199) }
```

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

```
.background{ background-color: rgb(136, 56,  
199) }
```

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