

Converting Colors

$Y_{xy}(13.8918, 0.2514, 0.1176)$

Have a look what the booklet for
Yxy(13.8918, 0.2514, 0.1176)
contains.

Yxy(13.8637, 0.2512, 0.1175)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(13.8637, 0.2512, 0.1175)

Conversions

Conversions Part 1

Format	Color
Hex	A50CE4
RGB	165, 12, 228
RGB Percent	65%, 5%, 89%
CMY	0.3532, 0.9516, 0.1060
CMYK	0.28, 0.95, 0.00, 0.11
HSL	282°, 90%, 47%
HSV	282°, 95%, 89%
XYZ	29.6388, 13.8637, 74.4864
YIQ	82.3710, 21.8520, 99.6120

Conversions

Conversions Part 2

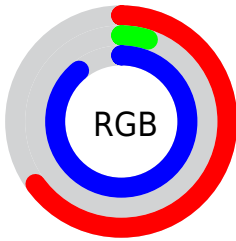
Format	Color
R _Y B	165, 12, 228
Decimal	10816740
CIE Lab	44.04, 80.28, -72.71
CIE LCh	44, 108.316, 317.832
Yxy	13.8637, 0.2512, 0.1175
Android (android.graphics.Color)	4289006820 (0xFFA50CE4)
YUV	82.3710, 71.7951, 72.4656
Hunter-Lab	37.2340, 76.9292, -92.5456

Details

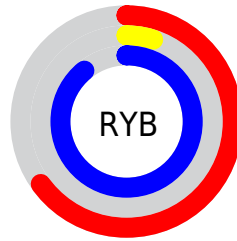
The Yxy color **13.8637, 0.2512, 0.1175** is a dark color, and the websafe version is hex **9900CC**. The color can be described as middle washed purple. A complement of this color would be **57.0055, 0.3153, 0.5848**, and the grayscale version is **8.4052, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.5399, 0.2914, 0.1687**, and **5.9435, 0.2268, 0.1023** is the 20% darker color. If you saturate the color by 10%, you get **13.2111, 0.2471, 0.1135**, and if you desaturate by 10%, it is **15.5363, 0.2589, 0.1276**.

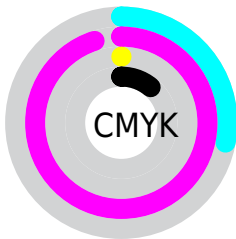
Distribution



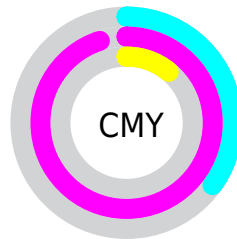
- Red (65%)
- Green (5%)
- Blue (89%)



- Red (65%)
- Yellow (5%)
- Blue (89%)



- Cyan (28%)
- Magenta (95%)
- Yellow (0%)
- Black (11%)




- Cyan (35%)
- Magenta (95%)
- Yellow (11%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 13.8637, 0.2512, 0.1175 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 13.8637, 0.2512, 0.1175 by changing the saturation by 10% instead.


 13.8637, 0.2512,
0.1175


 13.8637, 0.2512,
0.1175


216.3812, 0.2910,
0.2155


 8.0259, 0.2391,
0.0974


 32.8470, 0.2675,
0.1502


 4.1115, 0.2228,
0.0745


 46.7613, 0.2731,
0.1634


 1.7362, 0.2004,
0.0496


 64.1366, 0.2776,
0.1750

 0.4469, 0.1695,
0.0215

 85.3572, 0.2813,
0.1851

 0.0000, 0.1262,
0.0000

 110.8076, 0.2844,
0.1941

 0.0000, 0.0507,
0.0000

 140.8721, 0.2870,

 0.0000, 0.0000,

0.2021

0.0000

175.9352, 0.2891,
0.2092

■ 13.8637, 0.2512,
0.1175

■ 13.8637, 0.2512,
0.1175

■ 13.2111, 0.2471,
0.1135

■ 15.5363, 0.2589,
0.1276

■ 18.1168, 0.2669,
0.1425

■ 21.7517, 0.2749,
0.1620

■ 26.5608, 0.2826,
0.1851

■ 32.6474, 0.2898,
0.2109

■ 40.1034, 0.2963,
0.2380

■ 49.0118, 0.3020,
0.2654

■ 59.4491, 0.3069,
0.2922

■ 71.4864, 0.3111,
0.3178

Harmonies

Analogous

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



13.8637, 0.1238, 0.0907



13.8637, 0.2512, 0.1175



13.8637, 0.4716, 0.1773

Triad

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



13.8637, 0.2512, 0.1175



13.8637, 0.5505, 0.4495



13.8637, 0.0557, 0.2693

Complementary

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



13.8637, 0.2512, 0.1175



57.0055, 0.3153, 0.5848

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.



13.8637, 0.1145, 0.5842



13.8637, 0.2512, 0.1175



13.8637, 0.3864, 0.6136

Square

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



13.8637, 0.2512, 0.1175



13.8637, 0.6664, 0.3336



13.8637, 0.2349, 0.7529



13.8637, 0.0474, 0.1343

Rectangle

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



13.8637, 0.2512, 0.1175



13.8637, 0.6147, 0.2285



13.8637, 0.2349, 0.7529



13.8637, 0.0677, 0.3553

Sweetspot

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



13.8642, 0.2512, 0.1175



58.8495, 0.3000, 0.2556



10.9928, 0.1642, 0.1073



11.5426, 0.2975, 0.2437



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.



13.8642, 0.2512, 0.1175



16.9793, 0.2467, 0.1133



20.2558, 0.3760, 0.1864



14.3926, 0.3091, 0.3055



7.6949, 0.2483, 0.1141



0.6158, 0.2592, 0.1202

Inverse Universe

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



17.2728, 0.5664, 0.2929



21.7616, 0.5838, 0.2990



55.8283, 0.2937, 0.5734



14.4370, 0.3247, 0.3222



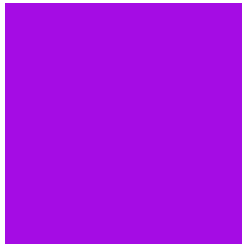
9.7737, 0.5784, 0.2960



0.7380, 0.5367, 0.2730

Previews

White Background



This preview shows how the Yxy color 13.8637, 0.2512, 0.1175 looks on a white background.

Color Contrast Check

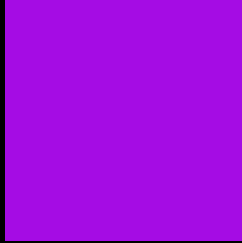
Large Text (above 18pt) WCAG AA ✓ Pass

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 13.8637, 0.2512, 0.1175 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

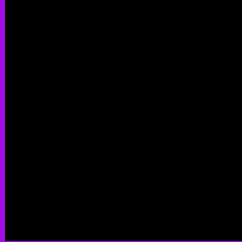
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 13.8637, 0.2512, 0.1175

Background



This preview shows how black text looks on a background with the Yxy color 13.8637, 0.2512, 0.1175.



This preview shows how white text looks on a background with the Yxy color 13.8637, 0.2512, 0.1175.

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

13.8637, 0.2512, 0.1175

Protanopia

14.3578, 0.1746, 0.1484

Deuteranopia

14.2703, 0.1849, 0.1854



Tritanopia

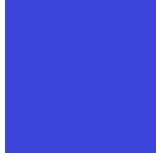
13.9965, 0.3889, 0.3184

Trichromacy



Original Color

13.8637, 0.2512, 0.1175



Protanomaly

10.3314, 0.1762, 0.1085



Deuteranomaly

9.9428, 0.1823, 0.1226



Tritanomaly

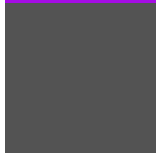
12.0382, 0.3295, 0.2032

Monochromacy



Original Color

13.8637, 0.2512, 0.1175



Achromatopsia

8.6500, 0.3127, 0.3290



Achromatomaly

8.2145, 0.2817, 0.1820

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.8637, 0.2512, 0.1175 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(165, 12, 228)` looks like.

```
.text, #text, p{  
    color:rgb(165, 12, 228)  
}
```

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(165, 12, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 12, 228) }
```

Border

The CSS property to change the border of an element to Yxy 13.8637, 0.2512, 0.1175 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(165, 12, 228) }
```

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

```
.border{ border-color:rgb(165, 12, 228) }
```

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

Here you see how a box with a 4 pixel rgb(165, 12, 228) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 12, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 12, 228);  
box-shadow:4px 4px 4px 4px rgb(165, 12,  
228) }
```


Background

The CSS property to change the background color of an element to Yxy 13.8637, 0.2512, 0.1175 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 12, 228) }
```

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

```
.background{ background-color: rgb(165, 12,  
228) }
```

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