

Converting Colors

$Y_{xy}(12.1251, 0.2233, 0.1079)$

Have a look what the booklet for
Yxy(12.1251, 0.2233, 0.1079)
contains.

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Color

Yxy(12.0632, 0.2228, 0.1075)

Conversions

Conversions Part 1

Format	Color
Hex	8921E5
RGB	137, 33, 229
RGB Percent	54%, 13%, 90%
CMY	0.4628, 0.8705, 0.1019
CMYK	0.40, 0.86, 0.00, 0.10
HSL	272°, 79%, 51%
HSV	272°, 86%, 90%
XYZ	25.0017, 12.0632, 75.1509
YIQ	86.4400, -0.9320, 83.0040

Conversions

Conversions Part 2

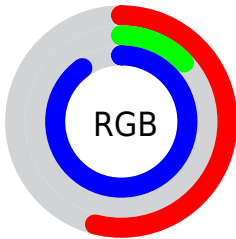
Format	Color
R_{YB}	137, 33, 229
Decimal	8987109
CIE _{Lab}	41.32, 73.31, -77.93
CIE _{LCh}	41, 106.992, 313.253
Yxy	12.0632, 0.2228, 0.1075
Android (android.graphics.Color)	4287177189 (0xFF8921E5)
YUV	86.4400, 70.2821, 44.3411
Hunter-Lab	34.7321, 67.7108, -103.9751

Details

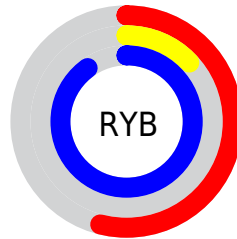
The Yxy color **12.0632, 0.2228, 0.1075** is a dark color, and the websafe version is hex **9933FF**. The color can be described as middle washed purple. A complement of this color would be **60.5223, 0.3389, 0.5579**, and the grayscale version is **9.2545, 0.3127, 0.3290**.

A 20% lighter version of the original color is **27.2747, 0.2658, 0.1605**, and **4.4744, 0.1910, 0.0826** is the 20% darker color. If you saturate the color by 10%, you get **10.3303, 0.2117, 0.0955**, and if you desaturate by 10%, it is **14.7502, 0.2349, 0.1250**.

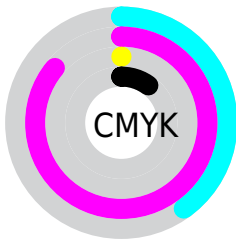
Distribution



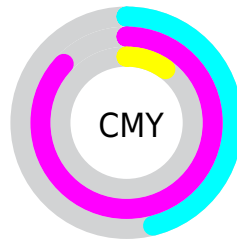
- Red (54%)
- Green (13%)
- Blue (90%)



- Red (54%)
- Yellow (13%)
- Blue (90%)



- Cyan (40%)
- Magenta (86%)
- Yellow (0%)
- Black (10%)



- Cyan (46%)
- Magenta (87%)
- Yellow (10%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.0632, 0.2228, 0.1075 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 12.0632, 0.2228, 0.1075 by changing the saturation by 10% instead.


 12.0632, 0.2228,
0.1075


 12.0632, 0.2228,
0.1075


204.8232, 0.2778,
0.2106


 6.7867, 0.2072,
0.0868


 29.6102, 0.2445,
0.1417


 3.3291, 0.1867,
0.0637


 42.6494, 0.2522,
0.1556


 1.3059, 0.1597,
0.0393

 59.0451, 0.2585,
0.1678

 0.1457, 0.1253,
0.0074

 79.1816, 0.2637,
0.1785

 0.0000, 0.0798,
0.0000

 103.4432, 0.2681,
0.1879

 0.0000, 0.0000,
0.0000

 132.2145, 0.2718,

0.1963

165.8797, 0.2750,
0.2038

■ 12.0632, 0.2228,
0.1075

■ 12.0632, 0.2228,
0.1075

■ 10.3303, 0.2117,
0.0955

■ 14.7502, 0.2349,
0.1250

■ 9.7569, 0.2071,
0.0914

■ 18.5438, 0.2475,
0.1475

■ 23.5695, 0.2600,
0.1737

■ 29.9349, 0.2720,
0.2023

■ 37.7357, 0.2831,
0.2318

■ 47.0584, 0.2929,
0.2610

■ 57.9826, 0.3016,
0.2890

■ 70.5821, 0.3091,
0.3152

■ 84.9262, 0.3154,
0.3394

Harmonies

Analogous

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



12.0632, 0.1080, 0.0855



12.0632, 0.2228, 0.1075



12.0632, 0.4376, 0.1626

Triad

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



12.0632, 0.2228, 0.1075



12.0632, 0.5749, 0.4251



12.0632, 0.0557, 0.3029

Complementary

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



12.0632, 0.2228, 0.1075



60.5223, 0.3389, 0.5579

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.



12.0632, 0.1233, 0.6472



12.0632, 0.2228, 0.1075



12.0632, 0.4099, 0.5901

Square

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



12.0632, 0.2228, 0.1075



12.0632, 0.6839, 0.3161



12.0632, 0.2484, 0.7516



12.0632, 0.0432, 0.1417

Rectangle

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



12.0632, 0.2228, 0.1075



12.0632, 0.5951, 0.2131



12.0632, 0.2484, 0.7516



12.0632, 0.0702, 0.4039

Sweetspot

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



12.0636, 0.2228, 0.1075



59.3120, 0.2924, 0.2593



21.3560, 0.1858, 0.1766



11.7680, 0.2891, 0.2492



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.



12.0636, 0.2228, 0.1075



12.3916, 0.2065, 0.0911



23.2270, 0.3242, 0.1618



14.2615, 0.3063, 0.3053



5.6500, 0.2086, 0.0923



0.4727, 0.2240, 0.1008

Inverse Universe

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



19.2321, 0.4749, 0.2497



22.6100, 0.5132, 0.2601



56.5004, 0.3001, 0.5852



14.4801, 0.3219, 0.3180



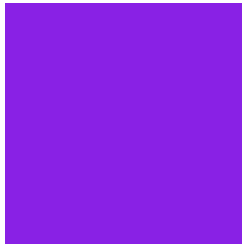
10.1616, 0.5083, 0.2574



0.7695, 0.4738, 0.2384

Previews

White Background



This preview shows how the Yxy color 12.0632, 0.2228, 0.1075 looks on a white background.

Color Contrast Check

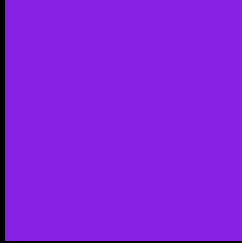
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.0632, 0.2228, 0.1075 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

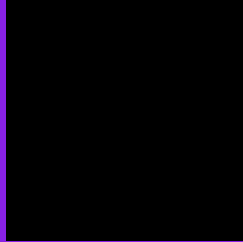
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.0632, 0.2228, 0.1075

Background



This preview shows how black text looks on a background with the Yxy color 12.0632, 0.2228, 0.1075.



This preview shows how white text looks on a background with the Yxy color 12.0632, 0.2228, 0.1075.

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

12.0632, 0.2228, 0.1075

Protanopia

12.1289, 0.1744, 0.1478

Deuteranopia

12.0546, 0.1855, 0.1878



Tritanopia

12.0000, 0.3275, 0.3139

Trichromacy



Original Color

12.0632, 0.2228, 0.1075



Protanomaly

9.9660, 0.1748, 0.1141



Deuteranomaly

9.6528, 0.1810, 0.1303



Tritanomaly

10.5350, 0.2776, 0.1933

Monochromacy



Original Color

12.0632, 0.2228, 0.1075



Achromatopsia

9.3059, 0.3127, 0.3290



Achromatomaly

8.8525, 0.2678, 0.1909

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.0632, 0.2228, 0.1075 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(137, 33, 229)` looks like.

```
.text, #text, p{  
  color:rgb(137, 33, 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(137, 33, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 33, 229) }
```

Border

The CSS property to change the border of an element to Yxy 12.0632, 0.2228, 0.1075 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(137, 33, 229) }
```

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

```
.border{ border-color:rgb(137, 33, 229) }
```

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

Here you see how a box with a 4 pixel rgb(137, 33, 229) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 33, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 33, 229);  
box-shadow:4px 4px 4px 4px rgb(137, 33,  
229) }
```


Background

The CSS property to change the background color of an element to Yxy 12.0632, 0.2228, 0.1075 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 33, 229) }
```

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

```
.background{ background-color: rgb(137, 33,  
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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