

Converting Colors

$Y_{xy}(12.9558, 0.3125, 0.1702)$

Have a look what the booklet for
Yxy(12.9558, 0.3125, 0.1702)
contains.

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Color

Yxy(12.9346, 0.3130, 0.1702)

Conversions

Conversions Part 1

Format	Color
Hex	A52FAA
RGB	165, 47, 170
RGB Percent	65%, 18%, 67%
CMY	0.3530, 0.8156, 0.3333
CMYK	0.03, 0.72, 0.00, 0.33
HSL	298°, 57%, 43%
HSV	298°, 72%, 67%
XYZ	23.7869, 12.9346, 39.2750
YIQ	96.3040, 30.8450, 63.2690

Conversions

Conversions Part 2

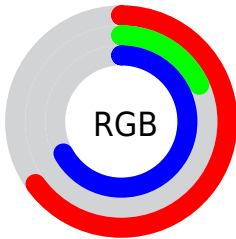
Format	Color
RYB	165, 47, 170
Decimal	10825642
CIELab	42.66, 62.23, -41.22
CIELCh	43, 74.643, 326.477
Yxy	12.9346, 0.3130, 0.1702
Android (android.graphics.Color)	4289015722 (0xFFA52FAA)
YUV	96.3040, 36.3321, 60.2464
Hunter-Lab	35.9647, 55.1209, -39.5719

Details

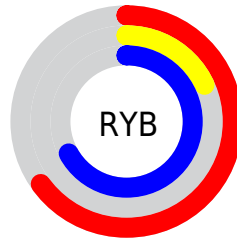
The Yxy color **12.9346, 0.3130, 0.1702** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **29.6877, 0.3045, 0.5543**, and the grayscale version is **11.6820, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.2821, 0.3157, 0.2007**, and **4.5356, 0.3045, 0.1451** is the 20% darker color. If you saturate the color by 10%, you get **11.7557, 0.3123, 0.1590**, and if you desaturate by 10%, it is **14.6445, 0.3135, 0.1855**.

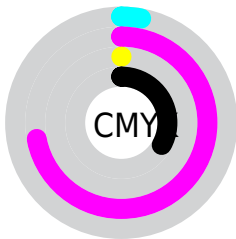
Distribution



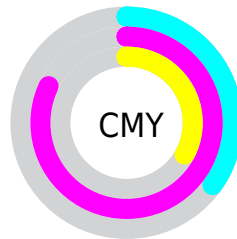
- Red (65%)
- Green (18%)
- Blue (67%)



- Red (65%)
- Yellow (18%)
- Blue (67%)



- Cyan (3%)
- Magenta (72%)
- Yellow (0%)
- Black (33%)





- Cyan (35%)
- Magenta (82%)
- Yellow (33%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.9346, 0.3130, 0.1702 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 12.9346, 0.3130, 0.1702 by changing the saturation by 10% instead.


 12.9346, 0.3130,
0.1702


 12.9346, 0.3130,
0.1702


210.4981, 0.3171,
0.2526


 7.3835, 0.3100,
0.1496


 31.1862, 0.3158,
0.2004


 3.7031, 0.3048,
0.1238


 44.6556, 0.3164,
0.2117

 1.5089, 0.2951,
0.0913

 61.5332, 0.3168,
0.2213

 0.2950, 0.2800,
0.0374

 82.2034, 0.3170,
0.2294

 0.0000, 0.2366,
0.0000

 107.0505, 0.3171,
0.2364

 0.0000, 0.0000,
0.0000

 136.4591, 0.3171,

0.2425

170.8135, 0.3171,
0.2479

■ 12.9346, 0.3130,
0.1702

■ 12.9346, 0.3130,
0.1702

■ 11.7557, 0.3123,
0.1590

■ 14.6445, 0.3135,
0.1855

■ 11.0406, 0.3115,
0.1520

■ 16.9385, 0.3138,
0.2044

■ 10.6958, 0.3108,
0.1486

■ 19.8656, 0.3139,
0.2261

■ 23.4687, 0.3138,
0.2498

■ 27.7873, 0.3136,
0.2744

■ 32.8577, 0.3133,
0.2992

■ 38.7138, 0.3128,
0.3235

■ 45.3874, 0.3123,
0.3467

■ 52.9085, 0.3118,
0.3686

Harmonies

Analogous

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



12.9346, 0.1871, 0.1358



12.9346, 0.3130, 0.1702



12.9346, 0.4789, 0.2322

Triad

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



12.9346, 0.3130, 0.1702



12.9346, 0.5008, 0.4992



12.9346, 0.0962, 0.2542

Complementary

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



12.9346, 0.3130, 0.1702



29.6877, 0.3045, 0.5543

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.



12.9346, 0.1462, 0.4384



12.9346, 0.3130, 0.1702



12.9346, 0.3752, 0.6028

Square

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



12.9346, 0.3130, 0.1702



12.9346, 0.5849, 0.3912



12.9346, 0.2493, 0.6121



12.9346, 0.0907, 0.1627

Rectangle

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



12.9346, 0.3130, 0.1702



12.9346, 0.5662, 0.2820



12.9346, 0.2493, 0.6121



12.9346, 0.1069, 0.3053

Sweetspot

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



12.9352, 0.3130, 0.1702



50.3630, 0.3136, 0.2742



6.0696, 0.1783, 0.1114



10.7452, 0.3137, 0.2678



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



12.9352, 0.3130, 0.1702



20.4287, 0.3118, 0.1542



11.8117, 0.4152, 0.2372



7.6508, 0.3131, 0.3067



7.8736, 0.3109, 0.1486



0.1962, 0.3144, 0.1506

Inverse Universe

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



10.8300, 0.5449, 0.3239



16.5087, 0.6091, 0.3260



30.3225, 0.2728, 0.4604



7.5471, 0.3279, 0.3281



6.2998, 0.6345, 0.3269



0.1548, 0.6099, 0.3133

Previews

White Background



This preview shows how the Yxy color 12.9346, 0.3130, 0.1702 looks on a white background.

Color Contrast Check

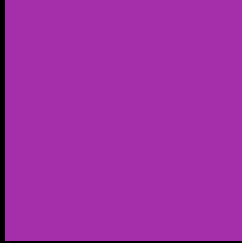
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the Xy color 12.9346, 0.3130, 0.1702 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

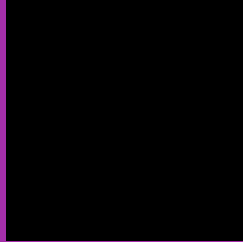
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.9346, 0.3130, 0.1702

Background



This preview shows how black text looks on a background with the Yxy color 12.9346, 0.3130, 0.1702.



This preview shows how white text looks on a background with the Yxy color 12.9346, 0.3130, 0.1702.

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

12.9346, 0.3130, 0.1702

Protanopia

13.2894, 0.1742, 0.1469

Deuteranopia

13.3049, 0.2173, 0.2131



Tritanopia

13.0419, 0.4384, 0.3212

Trichromacy



Original Color

12.9346, 0.3130, 0.1702



Protanomaly

10.4477, 0.1866, 0.1354



Deuteranomaly

11.5985, 0.2413, 0.1828



Tritanomaly

12.6230, 0.3907, 0.2542

Monochromacy



Original Color

12.9346, 0.3130, 0.1702



Achromatopsia

11.6971, 0.3127, 0.3290



Achromatomaly

10.9438, 0.3136, 0.2419

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.9346, 0.3130, 0.1702 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, 47, 170)` looks like.

```
.text, #text, p{  
    color:rgb(165, 47, 170)  
}
```

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, 47, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 47, 170) }
```

Border

The CSS property to change the border of an element to Yxy 12.9346, 0.3130, 0.1702 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, 47, 170) }
```

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

```
.border{ border-color:rgb(165, 47, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(165, 47, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 47, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 47, 170);  
box-shadow:4px 4px 4px 4px rgb(165, 47,  
170) }
```


Background

The CSS property to change the background color of an element to Yxy 12.9346, 0.3130, 0.1702 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 47, 170) }
```

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

```
.background{ background-color: rgb(165, 47,  
170) }
```

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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