

Converting Colors

$Y_{xy}(12.8021, 0.3337, 0.1612)$

Have a look what the booklet for
Yxy(12.8021, 0.3337, 0.1612)
contains.

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Color

Yxy(12.8023, 0.3337, 0.1612)

Conversions

Conversions Part 1

Format	Color
Hex	B500AC
RGB	181, 0, 172
RGB Percent	71%, 0%, 67%
CMY	0.2902, 0.9998, 0.3254
CMYK	0.00, 1.00, 0.05, 0.29
HSL	303°, 100%, 35%
HSV	303°, 100%, 71%
XYZ	26.5020, 12.8023, 40.1144
YIQ	73.7270, 52.6640, 91.8640

Conversions

Conversions Part 2

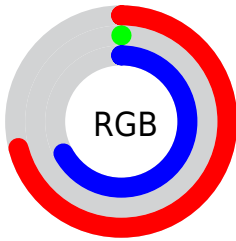
Format	Color
R_{YB}	181, 0, 172
Decimal	11862188
CIE _{Lab}	42.46, 74.65, -42.58
CIE _{LCh}	42, 85.939, 330.302
Yxy	12.8023, 0.3337, 0.1612
Android (android.graphics.Color)	4290052268 (0xFFB500AC)
YUV	73.7270, 48.4486, 94.0784
Hunter-Lab	35.7803, 69.5972, -41.4256

Details

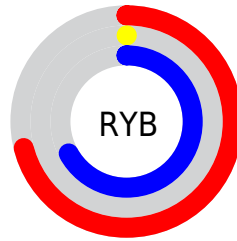
The Yxy color **12.8023, 0.3337, 0.1612** is a dark color, and the websafe version is hex **CC33CC**. A complement of this color would be **33.0636, 0.2991, 0.5968**, and the grayscale version is **6.7083, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.9578, 0.3327, 0.1921**, and **5.5429, 0.3289, 0.1586** is the 20% darker color. If you saturate the color by 10%, you get **12.8018, 0.3337, 0.1612**, and if you desaturate by 10%, it is **13.2739, 0.3321, 0.1644**.

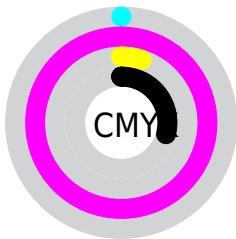
Distribution



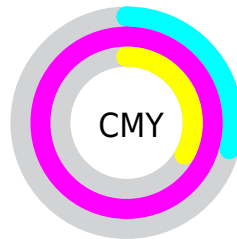
- Red (71%)
- Green (0%)
- Blue (67%)



- Red (71%)
- Yellow (0%)
- Blue (67%)



- Cyan (0%)
- Magenta (100%)
- Yellow (5%)
- Black (29%)




- Cyan (29%)
- Magenta (100%)
- Yellow (33%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8023, 0.3337, 0.1612 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 12.8023, 0.3337, 0.1612 by changing the saturation by 10% instead.


 12.8023, 0.3337,
0.1612


 12.8023, 0.3337,
0.1612


209.6467, 0.3267,
0.2469


 7.2926, 0.3337,
0.1404


 30.9481, 0.3323,
0.1922


 3.6457, 0.3325,
0.1147


 44.3530, 0.3314,
0.2039

 1.4774, 0.3283,
0.0830

 61.1584, 0.3305,
0.2139

 0.2728, 0.3218,
0.0315

 81.7487, 0.3296,
0.2224

 0.0000, 0.2910,
0.0000

 106.5083, 0.3288,
0.2297

 0.0000, 0.0000,
0.0000

 135.8216, 0.3281,

0.2362

170.0729, 0.3273,
0.2418

■ 12.8023, 0.3337,
0.1612

■ 12.8023, 0.3337,
0.1612

■ 12.8018, 0.3337,
0.1612

■ 13.2739, 0.3321,
0.1644

■ 14.1480, 0.3303,
0.1711

■ 15.5770, 0.3282,
0.1820

■ 17.6341, 0.3260,
0.1969

■ 20.3815, 0.3236,
0.2153

■ 23.8741, 0.3213,
0.2363

■ 28.1610, 0.3189,
0.2590

■ 33.2873, 0.3167,
0.2826

■ 39.2945, 0.3146,
0.3061

Harmonies

Analogous

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



12.8023, 0.1860, 0.1215



12.8023, 0.3337, 0.1612



12.8023, 0.5250, 0.2290

Triad

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



12.8023, 0.3337, 0.1612



12.8023, 0.4860, 0.5140



12.8023, 0.0739, 0.2213

Complementary

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



12.8023, 0.3337, 0.1612



33.0636, 0.2991, 0.5968

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.



12.8023, 0.1145, 0.4210



12.8023, 0.3337, 0.1612



12.8023, 0.3504, 0.6496

Square

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



12.8023, 0.3337, 0.1612



12.8023, 0.6029, 0.3971



12.8023, 0.2150, 0.6489



12.8023, 0.0749, 0.1372

Rectangle

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



12.8023, 0.3337, 0.1612



12.8023, 0.6129, 0.2805



12.8023, 0.2150, 0.6489



12.8023, 0.0815, 0.2726

Sweetspot

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



12.8029, 0.3337, 0.1612



49.9997, 0.3191, 0.2578



3.3761, 0.1511, 0.0606



10.0872, 0.3200, 0.2482



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290

Same Dimension

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



12.8029, 0.3337, 0.1612



22.9203, 0.3339, 0.1613



10.4713, 0.5096, 0.2581



8.6393, 0.3145, 0.3076



8.8295, 0.3335, 0.1611



0.2800, 0.3297, 0.1590

Inverse Universe

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



12.8029, 0.3337, 0.1612



22.9203, 0.3339, 0.1613



33.8985, 0.2692, 0.4890



8.6393, 0.3145, 0.3076



8.8295, 0.3335, 0.1611



0.2800, 0.3297, 0.1590

Previews

White Background



This preview shows how the Yxy color 12.8023, 0.3337, 0.1612 looks on a white background.

Color Contrast Check

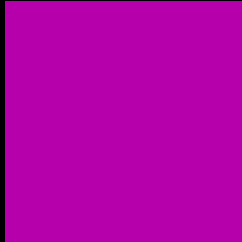
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.8023, 0.3337, 0.1612 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

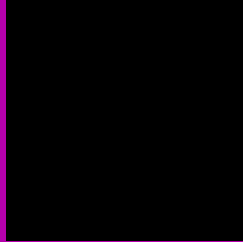
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8023, 0.3337, 0.1612

Background



This preview shows how black text looks on a background with the Yxy color 12.8023, 0.3337, 0.1612.



This preview shows how white text looks on a background with the Yxy color 12.8023, 0.3337, 0.1612.

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

12.8023, 0.3337, 0.1612

Protanopia

13.5768, 0.1742, 0.1469

Deuteranopia

13.6112, 0.2186, 0.2141



Tritanopia

13.2601, 0.4895, 0.3240

Trichromacy



Original Color

12.8023, 0.3337, 0.1612



Protanomaly

8.6988, 0.1844, 0.1147



Deuteranomaly

9.9646, 0.2445, 0.1596



Tritanomaly

11.9244, 0.4378, 0.2456

Monochromacy



Original Color

12.8023, 0.3337, 0.1612



Achromatopsia

6.8478, 0.3127, 0.3290



Achromatomaly

6.6695, 0.3245, 0.2034

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8023, 0.3337, 0.1612 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(181, 0, 172)` looks like.

```
.text, #text, p{  
    color:rgb(181, 0, 172)  
}
```

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(181, 0, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(181, 0, 172) }
```

Border

The CSS property to change the border of an element to Yxy 12.8023, 0.3337, 0.1612 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(181, 0, 172) }
```

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

```
.border{ border-color:rgb(181, 0, 172) }
```

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

Here you see how a box with a 4 pixel rgb(181, 0, 172) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(181, 0, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(181, 0, 172);  
box-shadow:4px 4px 4px 4px rgb(181, 0,  
172) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8023, 0.3337, 0.1612 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(181, 0, 172) }
```

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

```
.background{ background-color: rgb(181, 0,  
172) }
```

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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