

Converting Colors

$Y_{xy}(12.2073, 0.4408, 0.2202)$

Have a look what the booklet for
Yxy(12.2073, 0.4408, 0.2202)
contains.

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Color

Yxy(12.1749, 0.4401, 0.2198)

Conversions

Conversions Part 1

Format	Color
Hex	BD0078
RGB	189, 0, 120
RGB Percent	74%, 0%, 47%
CMY	0.2588, 1.0000, 0.5294
CMYK	0.00, 1.00, 0.37, 0.26
HSL	322°, 100%, 37%
HSV	322°, 100%, 74%
XYZ	24.3775, 12.1749, 18.8384
YIQ	70.1910, 74.1240, 77.3880

Conversions

Conversions Part 2

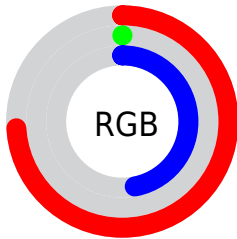
Format	Color
R_{YB}	189, 0, 120
Decimal	12386424
CIE _{Lab}	41.49, 69.86, -12.32
CIE _{LCh}	41, 70.942, 350.000
Yxy	12.1749, 0.4401, 0.2198
Android (android.graphics.Color)	4290576504 (0xFFBD0078)
YUV	70.1910, 24.5558, 104.1955
Hunter-Lab	34.8925, 63.6461, -7.5858

Details

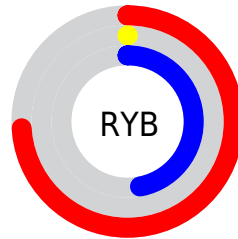
The Yxy color **12.1749, 0.4401, 0.2198** is a dark color, and the websafe version is hex **CC3399**. A complement of this color would be **36.8259, 0.2842, 0.5430**, and the grayscale version is **6.1079, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.7996, 0.4106, 0.2441**, and **5.2137, 0.4678, 0.2351** is the 20% darker color. If you saturate the color by 10%, you get **12.1755, 0.4401, 0.2198**, and if you desaturate by 10%, it is **12.8116, 0.4241, 0.2169**.

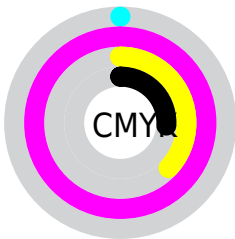
Distribution



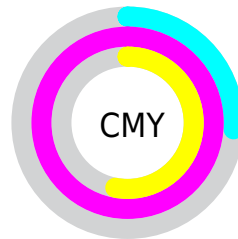
- Red (74%)
- Green (0%)
- Blue (47%)



- Red (74%)
- Yellow (0%)
- Blue (47%)



- Cyan (0%)
- Magenta (100%)
- Yellow (37%)
- Black (26%)



- Cyan (26%)
- Magenta (100%)
- Yellow (53%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.1749, 0.4401, 0.2198 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 12.1749, 0.4401, 0.2198 by changing the saturation by 10% instead.


 12.1749, 0.4401,
0.2198


 12.1749, 0.4401,
0.2198


205.5598, 0.3656,
0.2813


 6.8629, 0.4632,
0.2020


 29.8133, 0.4099,
0.2440

 3.3765, 0.4960,
0.1776

 42.9084, 0.3996,
0.2525


 1.3313, 0.5457,
0.1430

 59.3667, 0.3912,
0.2595

 0.1653, 0.6585,
0.0467

 79.5726, 0.3843,
0.2653

 0.0000, 1.0000,
0.0000

 103.9105, 0.3785,
0.2702

 0.0000, 0.0000,
0.0000

 132.7647, 0.3736,

0.2745

166.5196, 0.3693,
0.2781

■ 12.1749, 0.4401,
0.2198

■ 12.1749, 0.4401,
0.2198

■ 12.1755, 0.4401,
0.2198

■ 12.8116, 0.4241,
0.2169

■ 13.9088, 0.4078,
0.2184

■ 15.6307, 0.3916,
0.2248

■ 18.0595, 0.3761,
0.2353

■ 21.2647, 0.3618,
0.2489

■ 25.3076, 0.3489,
0.2643

■ 30.2433, 0.3376,
0.2807

■ 36.1219, 0.3279,
0.2973

■ 42.9901, 0.3197,
0.3135

Harmonies

Analogous

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



12.1749, 0.2819, 0.1636



12.1749, 0.4401, 0.2198



12.1749, 0.5694, 0.2931

Triad

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



12.1749, 0.4401, 0.2198



12.1749, 0.4043, 0.5795



12.1749, 0.0929, 0.1799

Complementary

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



12.1749, 0.4401, 0.2198



36.8259, 0.2842, 0.5430

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.



12.1749, 0.1070, 0.2881



12.1749, 0.4401, 0.2198



12.1749, 0.2785, 0.6159

Square

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



12.1749, 0.4401, 0.2198



12.1749, 0.5213, 0.4742



12.1749, 0.1689, 0.4800



12.1749, 0.1131, 0.1387

Rectangle

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



12.1749, 0.4401, 0.2198



12.1749, 0.5953, 0.3455



12.1749, 0.1689, 0.4800



12.1749, 0.0934, 0.2066

Sweetspot

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



12.1756, 0.4401, 0.2198



53.7001, 0.3381, 0.2799



4.8379, 0.1767, 0.0747



10.7107, 0.3427, 0.2730



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290

Same Dimension

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



12.1756, 0.4401, 0.2198



21.7579, 0.4424, 0.2211



10.9048, 0.6197, 0.3187



9.6356, 0.3192, 0.3145



8.2069, 0.4382, 0.2187



0.3336, 0.4032, 0.1995

Inverse Universe

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



12.1756, 0.4401, 0.2198



21.7579, 0.4424, 0.2211



38.9573, 0.2381, 0.3770



9.6356, 0.3192, 0.3145



8.2069, 0.4382, 0.2187



0.3336, 0.4032, 0.1995

Previews

White Background



This preview shows how the Yxy color 12.1749, 0.4401, 0.2198 looks on a white background.

Color Contrast Check

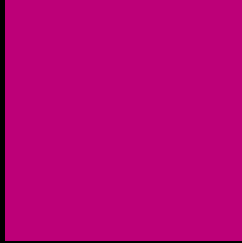
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.1749, 0.4401, 0.2198 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

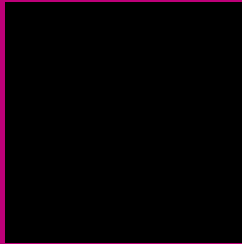
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.1749, 0.4401, 0.2198

Background



This preview shows how black text looks on a background with the Yxy color 12.1749, 0.4401, 0.2198.



This preview shows how white text looks on a background with the Yxy color 12.1749, 0.4401, 0.2198.

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

12.1749, 0.4401, 0.2198

Protanopia

12.9429, 0.2090, 0.1906

Deuteranopia

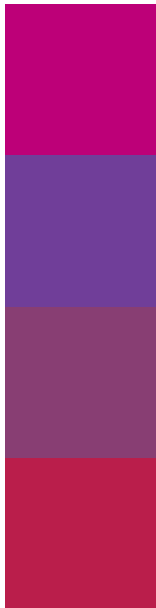
12.9085, 0.3040, 0.2991



Tritanopia

12.5691, 0.5628, 0.3278

Trichromacy



Original Color

12.1749, 0.4401, 0.2198

Protanomaly

9.1899, 0.2597, 0.1686

Deuteranomaly

9.9173, 0.3545, 0.2348

Tritanomaly

11.8756, 0.5278, 0.2851

Monochromacy



Original Color

12.1749, 0.4401, 0.2198

Achromatopsia

6.1246, 0.3127, 0.3290

Achromatomaly

6.0921, 0.3728, 0.2388

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.1749, 0.4401, 0.2198 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(189, 0, 120)` looks like.

```
.text, #text, p{  
    color:rgb(189, 0, 120)  
}
```

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(189, 0, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 0, 120) }
```

Border

The CSS property to change the border of an element to Yxy 12.1749, 0.4401, 0.2198 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(189, 0, 120) }
```

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

```
.border{ border-color:rgb(189, 0, 120) }
```

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

Here you see how a box with a 4 pixel rgb(189, 0, 120) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 0, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 0, 120);  
box-shadow:4px 4px 4px 4px rgb(189, 0,  
120) }
```


Background

The CSS property to change the background color of an element to $\text{Yxy } 12.1749, 0.4401, 0.2198$ is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 0, 120) }
```

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

```
.background{ background-color: rgb(189, 0,  
120) }
```

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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