

Converting Colors

$Y_{xy}(12.3565, 0.4217, 0.2097)$

Have a look what the booklet for
Yxy(12.3565, 0.4217, 0.2097)
contains.

Yxy(12.4038, 0.4214, 0.2095)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.4038, 0.4214, 0.2095)

Conversions

Conversions Part 1

Format	Color
Hex	BD0081
RGB	189, 0, 129
RGB Percent	74%, 0%, 51%
CMY	0.2588, 1.0000, 0.4941
CMYK	0.00, 1.00, 0.32, 0.26
HSL	319°, 100%, 37%
HSV	319°, 100%, 74%
XYZ	24.9497, 12.4038, 21.8532
YIQ	71.2170, 71.2350, 80.1870

Conversions

Conversions Part 2

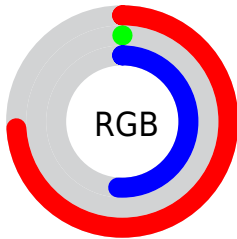
Format	Color
RYB	189, 0, 129
Decimal	12386433
CIELab	41.85, 70.79, -17.35
CIElCh	42, 72.884, 346.225
Yxy	12.4038, 0.4214, 0.2095
Android (android.graphics.Color)	4290576513 (0xFFBD0081)
YUV	71.2170, 28.4870, 103.2957
Hunter-Lab	35.2190, 64.8188, -12.1358

Details

The Yxy color **12.4038, 0.4214, 0.2095** is a dark color, and the websafe version is hex **CC3399**. A complement of this color would be **36.7219, 0.2877, 0.5556**, and the grayscale version is **6.2825, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.3570, 0.3970, 0.2354**, and **5.3250, 0.4433, 0.2216** is the 20% darker color. If you saturate the color by 10%, you get **12.4043, 0.4214, 0.2095**, and if you desaturate by 10%, it is **13.0312, 0.4081, 0.2078**.

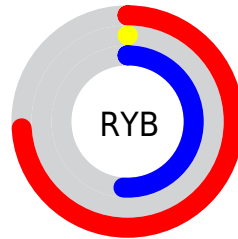
Distribution



Red (74%)

Green (0%)

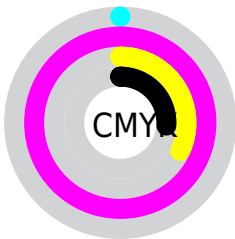
Blue (51%)



Red (74%)

Yellow (0%)

Blue (51%)

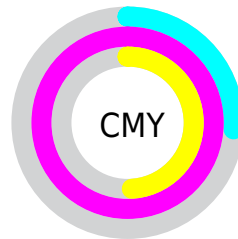


Cyan (0%)

Magenta (100%)

Yellow (32%)

Black (26%)



Cyan (26%)


Magenta (100%)


Yellow (49%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.4038, 0.4214, 0.2095 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 12.4038, 0.4214, 0.2095 by changing the saturation by 10% instead.


 12.4038, 0.4214,
0.2095


 12.4038, 0.4214,
0.2095


207.0605, 0.3591,
0.2755


 7.0193, 0.4401,
0.1911


 30.2284, 0.3966,
0.2350


 3.4742, 0.4662,
0.1664


 43.4374, 0.3879,
0.2441


 1.3840, 0.5047,
0.1322

 60.0233, 0.3809,
0.2516

 0.2049, 0.5873,
0.0491

 80.3705, 0.3750,
0.2579

 0.0000, 0.7903,
0.0000

 104.8634, 0.3701,
0.2633

 0.0000, 0.0000,
0.0000

 133.8865, 0.3659,

0.2679

167.8240, 0.3623,
0.2719

■ 12.4038, 0.4214,
0.2095

■ 12.4038, 0.4214,
0.2095

■ 12.4043, 0.4214,
0.2095

■ 13.0312, 0.4081,
0.2078

■ 14.1163, 0.3945,
0.2103

■ 15.8233, 0.3809,
0.2176

■ 18.2341, 0.3678,
0.2289

■ 21.4184, 0.3556,
0.2434

■ 25.4372, 0.3445,
0.2598

■ 30.3455, 0.3347,
0.2773

■ 36.1936, 0.3262,
0.2950

■ 43.0278, 0.3189,
0.3124

Harmonies

Analogous

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



12.4038, 0.2636, 0.1562



12.4038, 0.4214, 0.2095



12.4038, 0.5631, 0.2821

Triad

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



12.4038, 0.4214, 0.2095



12.4038, 0.4210, 0.5720



12.4038, 0.0900, 0.1864

Complementary

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



12.4038, 0.4214, 0.2095



36.7219, 0.2877, 0.5556

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.



12.4038, 0.1087, 0.3072



12.4038, 0.4214, 0.2095



12.4038, 0.2920, 0.6256

Square

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



12.4038, 0.4214, 0.2095



12.4038, 0.5358, 0.4607



12.4038, 0.1778, 0.5095



12.4038, 0.1062, 0.1388

Rectangle

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



12.4038, 0.4214, 0.2095



12.4038, 0.5992, 0.3341



12.4038, 0.1778, 0.5095



12.4038, 0.0918, 0.2164

Sweetspot

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



12.4045, 0.4214, 0.2095



53.8852, 0.3352, 0.2764



4.6305, 0.1722, 0.0722



10.7550, 0.3392, 0.2690



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.



12.4045, 0.4214, 0.2095



22.1703, 0.4234, 0.2106



10.9384, 0.6121, 0.3145



9.6433, 0.3185, 0.3135



8.3602, 0.4198, 0.2086



0.3389, 0.3907, 0.1926

Inverse Universe

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



12.4045, 0.4214, 0.2095



22.1703, 0.4234, 0.2106



38.7406, 0.2412, 0.3884



9.6433, 0.3185, 0.3135



8.3602, 0.4198, 0.2086



0.3389, 0.3907, 0.1926

Previews

White Background



This preview shows how the Yxy color 12.4038, 0.4214, 0.2095 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 12.4038, 0.4214, 0.2095 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

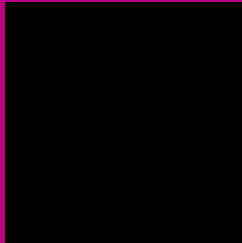
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.4038, 0.4214, 0.2095

Background



This preview shows how black text looks on a background with the Yxy color 12.4038, 0.4214, 0.2095.



This preview shows how white text looks on a background with the Yxy color 12.4038, 0.4214, 0.2095.

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

12.4038, 0.4214, 0.2095

Protanopia

13.1259, 0.1975, 0.1749

Deuteranopia

13.1045, 0.2896, 0.2847



Tritanopia

12.8150, 0.5521, 0.3276

Trichromacy



Original Color

12.4038, 0.4214, 0.2095



Protanomaly

9.1898, 0.2407, 0.1539



Deuteranomaly

10.0534, 0.3366, 0.2228



Tritanomaly

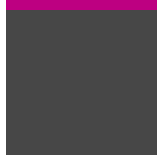
12.0662, 0.5144, 0.2789

Monochromacy



Original Color

12.4038, 0.4214, 0.2095



Achromatopsia

6.3010, 0.3127, 0.3290



Achromatomaly

6.2269, 0.3654, 0.2319

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.4038, 0.4214, 0.2095 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, 129)` looks like.

```
.text, #text, p{  
  color:rgb(189, 0, 129)  
}
```

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, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 0, 129) }
```

Border

The CSS property to change the border of an element to Yxy 12.4038, 0.4214, 0.2095 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, 129) }
```

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

```
.border{ border-color:rgb(189, 0, 129) }
```

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, 129) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 0, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 0, 129);  
box-shadow:4px 4px 4px 4px rgb(189, 0,  
129) }
```


Background

The CSS property to change the background color of an element to Yxy 12.4038, 0.4214, 0.2095 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, 129) }
```

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

```
.background{ background-color: rgb(189, 0,  
129) }
```

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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