

Converting Colors

$Y_{xy}(13.2074, 0.4054, 0.2077)$

Have a look what the booklet for
Yxy(13.2074, 0.4054, 0.2077)
contains.

Yxy(13.1702, 0.4058, 0.2078)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(13.1702, 0.4058, 0.2078)

Conversions

Conversions Part 1

Format	Color
Hex	BD1688
RGB	189, 22, 136
RGB Percent	74%, 9%, 53%
CMY	0.2588, 0.9138, 0.4666
CMYK	0.00, 0.88, 0.28, 0.26
HSL	319°, 79%, 41%
HSV	319°, 88%, 74%
XYZ	25.7193, 13.1702, 24.4897
YIQ	84.9290, 62.9380, 70.8580

Conversions

Conversions Part 2

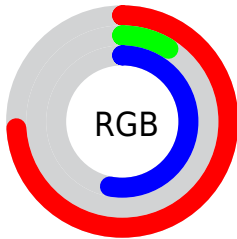
Format	Color
R_{YB}	189, 22, 136
Decimal	12392072
CIE _{Lab}	43.02, 69.01, -19.87
CIE _{LCh}	43, 71.817, 343.935
Yxy	13.1702, 0.4058, 0.2078
Android (android.graphics.Color)	4290582152 (0xFFBD1688)
YUV	84.9290, 25.1780, 91.2703
Hunter-Lab	36.2908, 62.9942, -14.6065

Details

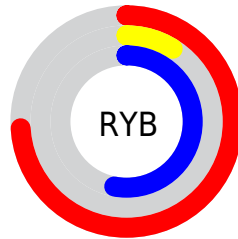
The Yxy color **13.1702, 0.4058, 0.2078** is a dark color, and the websafe version is hex **CC3399**. A complement of this color would be **37.0745, 0.2843, 0.5324**, and the grayscale version is **9.0042, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.4682, 0.3857, 0.2331**, and **5.4972, 0.4276, 0.2129** is the 20% darker color. If you saturate the color by 10%, you get **12.4988, 0.4191, 0.2091**, and if you desaturate by 10%, it is **14.3510, 0.3922, 0.2111**.

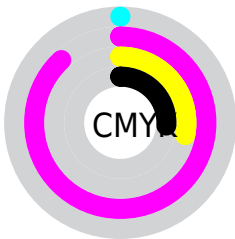
Distribution



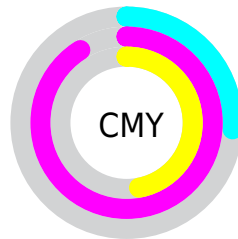
- Red (74%)
- Green (9%)
- Blue (53%)



- Red (74%)
- Yellow (9%)
- Blue (53%)



- Cyan (0%)
- Magenta (88%)
- Yellow (28%)
- Black (26%)





- Cyan (26%)
- Magenta (91%)
- Yellow (47%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 13.1702, 0.4058, 0.2078 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 13.1702, 0.4058, 0.2078 by changing the saturation by 10% instead.


 13.1702, 0.4058,
0.2078


 13.1702, 0.4058,
0.2078


212.0056, 0.3534,
0.2738


 7.5459, 0.4210,
0.1897


 31.6092, 0.3852,
0.2330


 3.8058, 0.4419,
0.1657


 45.1927, 0.3780,
0.2421


 1.5655, 0.4722,
0.1330

 62.1980, 0.3720,
0.2497

 0.3342, 0.5299,
0.0677

 83.0095, 0.3671,
0.2560

 0.0000, 0.6354,
0.0000

 108.0116, 0.3629,
0.2615

 0.0000, 0.0000,
0.0000

 137.5887, 0.3593,

0.2661

172.1253, 0.3562,
0.2702

■ 13.1702, 0.4058,
0.2078

■ 13.1702, 0.4058,
0.2078

■ 12.4988, 0.4191,
0.2091

■ 14.3510, 0.3922,
0.2111

■ 12.4057, 0.4213,
0.2095

■ 16.1673, 0.3787,
0.2191

■ 18.6997, 0.3657,
0.2311

■ 22.0159, 0.3537,
0.2459

■ 26.1760, 0.3428,
0.2626

■ 31.2341, 0.3332,
0.2802

■ 37.2398, 0.3249,
0.2979

■ 44.2389, 0.3178,
0.3151

■ 52.2745, 0.3118,
0.3316

Harmonies

Analogous

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



13.1702, 0.2555, 0.1572



13.1702, 0.4058, 0.2078



13.1702, 0.5478, 0.2787

Triad

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



13.1702, 0.4058, 0.2078



13.1702, 0.4291, 0.5577



13.1702, 0.0946, 0.1968

Complementary

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



13.1702, 0.4058, 0.2078



37.0745, 0.2843, 0.5324

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.



13.1702, 0.1170, 0.3218



13.1702, 0.4058, 0.2078



13.1702, 0.3044, 0.6159

Square

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



13.1702, 0.4058, 0.2078



13.1702, 0.5369, 0.4508



13.1702, 0.1901, 0.5168



13.1702, 0.1081, 0.1451

Rectangle

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



13.1702, 0.4058, 0.2078



13.1702, 0.5899, 0.3301



13.1702, 0.1901, 0.5168



13.1702, 0.0975, 0.2285

Sweetspot

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



13.1709, 0.4058, 0.2078



56.8711, 0.3324, 0.2818



5.7384, 0.1854, 0.0860



11.5142, 0.3355, 0.2758



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.



13.1709, 0.4058, 0.2078



22.1723, 0.4233, 0.2105



11.6459, 0.5770, 0.3067



9.6434, 0.3185, 0.3135



8.3610, 0.4197, 0.2086



0.3389, 0.3906, 0.1926

Inverse Universe

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



13.1709, 0.4058, 0.2078



22.1723, 0.4233, 0.2105



39.0489, 0.2412, 0.3808



9.6434, 0.3185, 0.3135



8.3610, 0.4197, 0.2086



0.3389, 0.3906, 0.1926

Previews

White Background



This preview shows how the Yxy color 13.1702, 0.4058, 0.2078 looks on a white background.

Color Contrast Check

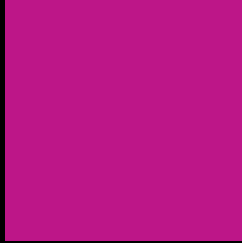
Large Text (above 18pt) WCAG AA ✓ Pass

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 13.1702, 0.4058, 0.2078 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

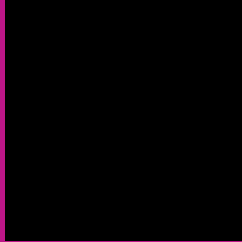
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 13.1702, 0.4058, 0.2078

Background



This preview shows how black text looks on a background with the Yxy color 13.1702, 0.4058, 0.2078.



This preview shows how white text looks on a background with the Yxy color 13.1702, 0.4058, 0.2078.

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

13.1702, 0.4058, 0.2078

Protanopia

13.7019, 0.1948, 0.1717

Deuteranopia

13.6064, 0.2802, 0.2753



Tritanopia

13.2114, 0.5368, 0.3263

Trichromacy



Original Color

13.1702, 0.4058, 0.2078

Protanomaly

10.5403, 0.2362, 0.1617

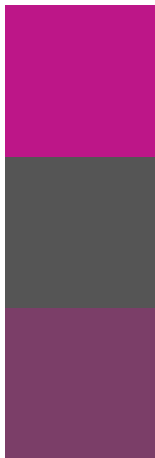
Deuteranomaly

11.2330, 0.3224, 0.2260

Tritanomaly

12.8038, 0.4949, 0.2800

Monochromacy



Original Color

13.1702, 0.4058, 0.2078

Achromatopsia

9.0842, 0.3127, 0.3290

Achromatomaly

8.6557, 0.3524, 0.2462

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.1702, 0.4058, 0.2078 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, 22, 136)` looks like.

```
.text, #text, p{  
    color:rgb(189, 22, 136)  
}
```

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, 22, 136) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 22, 136) }
```

Border

The CSS property to change the border of an element to Yxy 13.1702, 0.4058, 0.2078 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, 22, 136) }
```

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

```
.border{ border-color:rgb(189, 22, 136) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 22, 136)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 22, 136); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 22, 136);  
box-shadow:4px 4px 4px 4px rgb(189, 22,  
136) }
```


Background

The CSS property to change the background color of an element to Yxy 13.1702, 0.4058, 0.2078 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 22, 136) }
```

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

```
.background{ background-color: rgb(189, 22,  
136) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor