

Converting Colors

$Y_{xy}(12.1726, 0.4637, 0.2412)$

Have a look what the booklet for
Yxy(12.1726, 0.4637, 0.2412)
contains.

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Color

Yxy(12.2002, 0.4625, 0.2408)

Conversions

Conversions Part 1

Format	Color
Hex	BB166B
RGB	187, 22, 107
RGB Percent	73%, 9%, 42%
CMY	0.2667, 0.9135, 0.5804
CMYK	0.00, 0.88, 0.43, 0.27
HSL	329°, 79%, 41%
HSV	329°, 88%, 73%
XYZ	23.4327, 12.2002, 15.0324
YIQ	81.0250, 71.0550, 61.4150

Conversions

Conversions Part 2

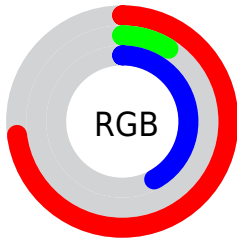
Format	Color
RYB	187, 22, 107
Decimal	12260971
CIELab	41.53, 65.53, -4.17
CIELCh	42, 65.667, 356.356
Yxy	12.2002, 0.4625, 0.2408
Android (android.graphics.Color)	4290451051 (0xFFBB166B)
YUV	81.0250, 12.8057, 92.9401
Hunter-Lab	34.9288, 58.6250, -1.0666

Details

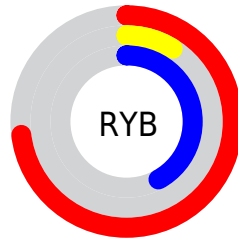
The Yxy color **12.2002, 0.4625, 0.2408** is a dark color, and the websafe version is hex **CC0066**. A complement of this color would be **36.6670, 0.2707, 0.4841**, and the grayscale version is **8.2029, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.9073, 0.4262, 0.2621**, and **4.9154, 0.5023, 0.2541** is the 20% darker color. If you saturate the color by 10%, you get **11.5169, 0.4855, 0.2460**, and if you desaturate by 10%, it is **13.3948, 0.4389, 0.2406**.

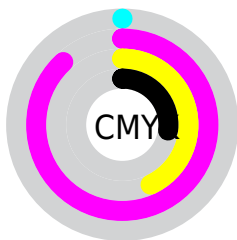
Distribution



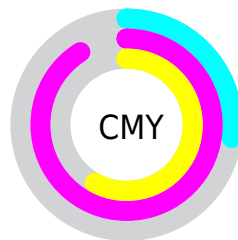
- Red (73%)
- Green (9%)
- Blue (42%)



- Red (73%)
- Yellow (9%)
- Blue (42%)



- Cyan (0%)
- Magenta (88%)
- Yellow (43%)
- Black (27%)



- Cyan (27%)
- Magenta (91%)
- Yellow (58%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.2002, 0.4625, 0.2408 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 12.2002, 0.4625, 0.2408 by changing the saturation by 10% instead.


 12.2002, 0.4625,
0.2408


 12.2002, 0.4625,
0.2408


205.7262, 0.3731,
0.2925


 6.8802, 0.4912,
0.2248


 29.8592, 0.4257,
0.2617


 3.3873, 0.5326,
0.2020

 42.9670, 0.4133,
0.2689


 1.3371, 0.5967,
0.1679

 59.4395, 0.4033,
0.2747

 0.1697, 0.7678,
0.0610

 79.6610, 0.3951,
0.2795

 0.0000, 1.0000,
0.0000

 104.0161, 0.3882,
0.2836

 0.0000, 0.0000,
0.0000

 132.8890, 0.3824,

0.2870

166.6643, 0.3774,
0.2899

■ 12.2002, 0.4625,
0.2408

■ 12.2002, 0.4625,
0.2408

■ 11.5169, 0.4855,
0.2460

■ 13.3948, 0.4389,
0.2406

■ 11.4138, 0.4897,
0.2471

■ 15.2220, 0.4157,
0.2454

■ 17.7603, 0.3940,
0.2540

■ 21.0760, 0.3744,
0.2654

■ 25.2279, 0.3573,
0.2784

■ 30.2690, 0.3426,
0.2920

■ 36.2477, 0.3302,
0.3056

■ 43.2092, 0.3199,
0.3187

■ 51.1955, 0.3113,
0.3312

Harmonies

Analogous

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



12.2002, 0.3137, 0.1816



12.2002, 0.4625, 0.2408



12.2002, 0.5655, 0.3141

Triad

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



12.2002, 0.4625, 0.2408



12.2002, 0.3783, 0.5793



12.2002, 0.1044, 0.1769

Complementary

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



12.2002, 0.4625, 0.2408



36.6670, 0.2707, 0.4841

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.



12.2002, 0.1116, 0.2645



12.2002, 0.4625, 0.2408



12.2002, 0.2608, 0.5791

Square

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



12.2002, 0.4625, 0.2408



12.2002, 0.4913, 0.4916



12.2002, 0.1621, 0.4282



12.2002, 0.1311, 0.1451

Rectangle

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



12.2002, 0.4625, 0.2408



12.2002, 0.5768, 0.3668



12.2002, 0.1621, 0.4282



12.2002, 0.1029, 0.1983

Sweetspot

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



12.2009, 0.4625, 0.2408



56.0068, 0.3403, 0.2944



6.9746, 0.2124, 0.1007



11.5780, 0.3449, 0.2897



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.



12.2009, 0.4625, 0.2408



20.3966, 0.4930, 0.2490



11.2085, 0.6139, 0.3284



9.6162, 0.3210, 0.3172



7.8799, 0.4871, 0.2457



0.3218, 0.4370, 0.2181

Inverse Universe

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



12.2009, 0.4625, 0.2408



20.3966, 0.4930, 0.2490



39.1778, 0.2277, 0.3332



9.6162, 0.3210, 0.3172



7.8799, 0.4871, 0.2457



0.3218, 0.4370, 0.2181

Previews

White Background



This preview shows how the Yxy color 12.2002, 0.4625, 0.2408 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 12.2002, 0.4625, 0.2408 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

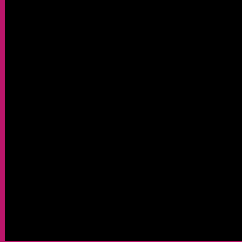
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.2002, 0.4625, 0.2408

Background



This preview shows how black text looks on a background with the Yxy color 12.2002, 0.4625, 0.2408.



This preview shows how white text looks on a background with the Yxy color 12.2002, 0.4625, 0.2408.

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

12.2002, 0.4625, 0.2408

Protanopia

12.7191, 0.2338, 0.2228

Deuteranopia

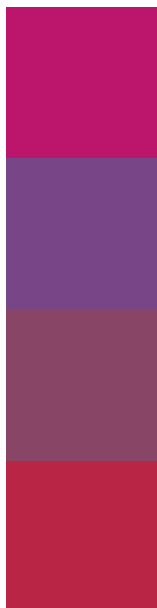
12.5178, 0.3283, 0.3226



Tritanopia

12.3577, 0.5645, 0.3278

Trichromacy



Original Color

12.2002, 0.4625, 0.2408

Protanomaly

10.1227, 0.2947, 0.2085

Deuteranomaly

10.5339, 0.3787, 0.2687

Tritanomaly

12.0671, 0.5352, 0.2970

Monochromacy



Original Color

12.2002, 0.4625, 0.2408

Achromatopsia

8.2283, 0.3127, 0.3290

Achromatomaly

7.9630, 0.3762, 0.2673

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.2002, 0.4625, 0.2408 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(187, 22, 107)` looks like.

```
.text, #text, p{  
    color:rgb(187, 22, 107)  
}
```

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(187, 22, 107) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 22, 107) }
```

Border

The CSS property to change the border of an element to Yxy 12.2002, 0.4625, 0.2408 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(187, 22, 107) }
```

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

```
.border{ border-color:rgb(187, 22, 107) }
```

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

Here you see how a box with a 4 pixel rgb(187, 22, 107) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 22, 107); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 22, 107);  
box-shadow:4px 4px 4px 4px rgb(187, 22,  
107) }
```


Background

The CSS property to change the background color of an element to Yxy 12.2002, 0.4625, 0.2408 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 22, 107) }
```

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

```
.background{ background-color: rgb(187, 22,  
107) }
```

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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