

Converting Colors

$Y_{xy}(12.2211, 0.3338, 0.1626)$

Have a look what the booklet for
Yxy(12.2211, 0.3338, 0.1626)
contains.

Yxy(12.1875, 0.3325, 0.1618)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.1875, 0.3325, 0.1618)

Conversions

Conversions Part 1

Format	Color
Hex	B006A8
RGB	176, 6, 168
RGB Percent	69%, 2%, 66%
CMY	0.3097, 0.9773, 0.3411
CMYK	0.00, 0.97, 0.05, 0.31
HSL	303°, 94%, 36%
HSV	303°, 97%, 69%
XYZ	25.0454, 12.1875, 38.0916
YIQ	75.2980, 49.3180, 86.4220

Conversions

Conversions Part 2

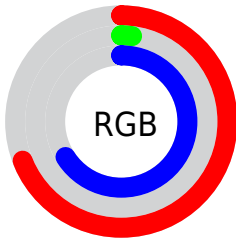
Format	Color
RYB	176, 6, 168
Decimal	11536040
CIELab	41.51, 72.65, -41.76
CIELCh	42, 83.803, 330.108
Yxy	12.1875, 0.3325, 0.1618
Android (android.graphics.Color)	4289726120 (0xFFB006A8)
YUV	75.2980, 45.7021, 88.3157
Hunter-Lab	34.9106, 66.9650, -40.2550

Details

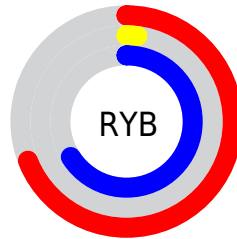
The Yxy color **12.1875, 0.3325, 0.1618** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **31.1332, 0.2992, 0.5941**, and the grayscale version is **6.9807, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.8604, 0.3307, 0.1932**, and **5.1597, 0.3292, 0.1587** is the 20% darker color. If you saturate the color by 10%, you get **12.0523, 0.3330, 0.1608**, and if you desaturate by 10%, it is **12.7218, 0.3309, 0.1659**.

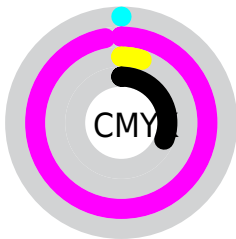
Distribution



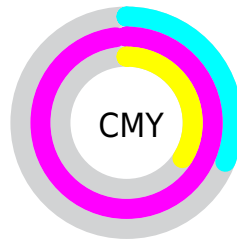
- Red (69%)
- Green (2%)
- Blue (66%)



- Red (69%)
- Yellow (2%)
- Blue (66%)



- Cyan (0%)
- Magenta (97%)
- Yellow (5%)
- Black (31%)





- Cyan (31%)
- Magenta (98%)
- Yellow (34%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.1875, 0.3325, 0.1618 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 12.1875, 0.3325, 0.1618 by changing the saturation by 10% instead.


 12.1875, 0.3325,
0.1618


 12.1875, 0.3325,
0.1618


205.6427, 0.3260,
0.2479

 6.8715, 0.3324,
0.1406


 29.8361, 0.3313,
0.1932


 3.3819, 0.3308,
0.1143


 42.9376, 0.3305,
0.2050

 1.3342, 0.3260,
0.0818

 59.4029, 0.3296,
0.2150

 0.1675, 0.3206,
0.0217

 79.6167, 0.3288,
0.2235

 0.0000, 0.2832,
0.0000

 103.9631, 0.3281,
0.2309

 0.0000, 0.0000,
0.0000

 132.8266, 0.3273,

0.2373

166.5917, 0.3267,
0.2429

■ 12.1875, 0.3325,
0.1618

■ 12.1875, 0.3325,
0.1618

■ 12.0523, 0.3330,
0.1608

■ 12.7218, 0.3309,
0.1659

■ 13.7100, 0.3291,
0.1740

■ 15.2427, 0.3271,
0.1863

■ 17.3841, 0.3249,
0.2025

■ 20.1900, 0.3226,
0.2218

■ 23.7094, 0.3203,
0.2435

■ 27.9870, 0.3181,
0.2666

■ 33.0637, 0.3159,
0.2902

■ 38.9776, 0.3140,
0.3137

Harmonies

Analogous

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



12.1875, 0.1861, 0.1224



12.1875, 0.3325, 0.1618



12.1875, 0.5222, 0.2293

Triad

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



12.1875, 0.3325, 0.1618



12.1875, 0.4868, 0.5132



12.1875, 0.0751, 0.2232

Complementary

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



12.1875, 0.3325, 0.1618



31.1332, 0.2992, 0.5941

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.



12.1875, 0.1163, 0.4220



12.1875, 0.3325, 0.1618



12.1875, 0.3525, 0.6475

Square

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



12.1875, 0.3325, 0.1618



12.1875, 0.6026, 0.3974



12.1875, 0.2171, 0.6464



12.1875, 0.0758, 0.1387

Rectangle

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



12.1875, 0.3325, 0.1618



12.1875, 0.6101, 0.2807



12.1875, 0.2171, 0.6464



12.1875, 0.0830, 0.2745

Sweetspot

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



12.1881, 0.3325, 0.1618



48.4265, 0.3187, 0.2601



3.3360, 0.1527, 0.0633



9.7934, 0.3196, 0.2504



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290

Same Dimension

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



12.1881, 0.3325, 0.1618



21.8393, 0.3332, 0.1609



10.0195, 0.5008, 0.2557



8.6397, 0.3145, 0.3076



8.8415, 0.3329, 0.1607



0.2803, 0.3292, 0.1587

Inverse Universe

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



12.1881, 0.3325, 0.1618



21.8393, 0.3332, 0.1609



31.9574, 0.2683, 0.4832



8.6397, 0.3145, 0.3076



8.8415, 0.3329, 0.1607



0.2803, 0.3292, 0.1587

Previews

White Background



This preview shows how the Yxy color 12.1875, 0.3325, 0.1618 looks on a white background.

Color Contrast Check

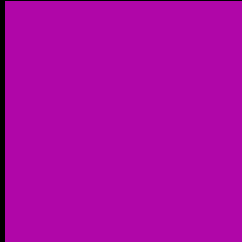
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.1875, 0.3325, 0.1618 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

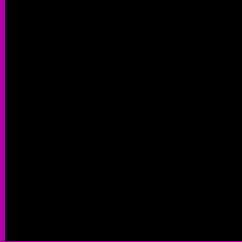
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.1875, 0.3325, 0.1618

Background



This preview shows how black text looks on a background with the Yxy color 12.1875, 0.3325, 0.1618.



This preview shows how white text looks on a background with the Yxy color 12.1875, 0.3325, 0.1618.

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

12.1875, 0.3325, 0.1618

Protanopia

12.7254, 0.1742, 0.1470

Deuteranopia

12.8119, 0.2183, 0.2133



Tritanopia

12.4456, 0.4886, 0.3238

Trichromacy



Original Color

12.1875, 0.3325, 0.1618



Protanomaly

8.4066, 0.1849, 0.1169



Deuteranomaly

9.6309, 0.2445, 0.1620



Tritanomaly

11.3880, 0.4342, 0.2463

Monochromacy



Original Color

12.1875, 0.3325, 0.1618



Achromatopsia

7.0360, 0.3127, 0.3290



Achromatomaly

6.8301, 0.3242, 0.2092

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.1875, 0.3325, 0.1618 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(176, 6, 168)` looks like.

```
.text, #text, p{  
    color:rgb(176, 6, 168)  
}
```

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(176, 6, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 6, 168) }
```

Border

The CSS property to change the border of an element to Yxy 12.1875, 0.3325, 0.1618 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(176, 6, 168) }
```

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

```
.border{ border-color:rgb(176, 6, 168) }
```

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

Here you see how a box with a 4 pixel rgb(176, 6, 168) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 6, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 6, 168);  
box-shadow:4px 4px 4px 4px rgb(176, 6,  
168) }
```


Background

The CSS property to change the background color of an element to Yxy 12.1875, 0.3325, 0.1618 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 6, 168) }
```

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

```
.background{ background-color: rgb(176, 6,  
168) }
```

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