

Converting Colors

$Y_{xy}(12.4985, 0.3304, 0.1594)$

Have a look what the booklet for
Yxy(12.4985, 0.3304, 0.1594)
contains.

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Color

Yxy(12.4435, 0.3295, 0.1589)

Conversions

Conversions Part 1

Format	Color
Hex	B200AC
RGB	178, 0, 172
RGB Percent	70%, 0%, 67%
CMY	0.3020, 0.9996, 0.3256
CMYK	0.00, 1.00, 0.03, 0.30
HSL	302°, 100%, 35%
HSV	302°, 100%, 70%
XYZ	25.8032, 12.4435, 40.0635
YIQ	72.8300, 50.8760, 91.2280

Conversions

Conversions Part 2

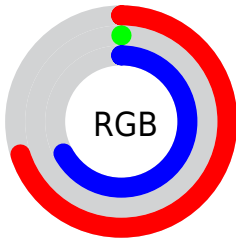
Format	Color
RYB	178, 0, 172
Decimal	11665580
CIELab	41.91, 74.13, -43.47
CIELCh	42, 85.935, 329.615
Yxy	12.4435, 0.3295, 0.1589
Android (android.graphics.Color)	4289855660 (0xFFB200AC)
YUV	72.8300, 48.8908, 92.2341
Hunter-Lab	35.2753, 68.8374, -42.6451

Details

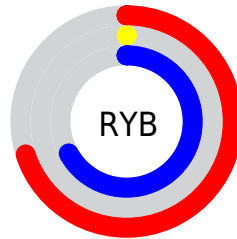
The Yxy color **12.4435, 0.3295, 0.1589** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **31.8506, 0.2994, 0.5977**, and the grayscale version is **6.5495, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.2615, 0.3286, 0.1903**, and **5.3250, 0.3229, 0.1553** is the 20% darker color. If you saturate the color by 10%, you get **12.4415, 0.3295, 0.1589**, and if you desaturate by 10%, it is **12.8945, 0.3284, 0.1624**.

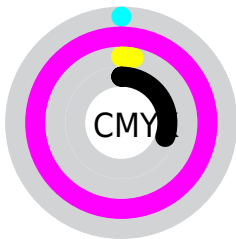
Distribution



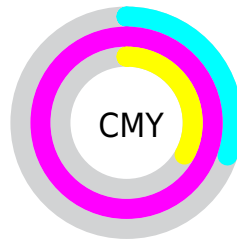
- Red (70%)
- Green (0%)
- Blue (67%)



- Red (70%)
- Yellow (0%)
- Blue (67%)



- Cyan (0%)
- Magenta (100%)
- Yellow (3%)
- Black (30%)




- Cyan (30%)
- Magenta (100%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.4435, 0.3295, 0.1589 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 12.4435, 0.3295, 0.1589 by changing the saturation by 10% instead.


 12.4435, 0.3295,
0.1589


 12.4435, 0.3295,
0.1589


 207.3197, 0.3250,
0.2458


 7.0465, 0.3287,
0.1378


 30.3003, 0.3291,
0.1903


 3.4912, 0.3264,
0.1118


 43.5289, 0.3286,
0.2022


 1.3932, 0.3205,
0.0799

 60.1368, 0.3279,
0.2123

 0.2117, 0.3122,
0.0251

 80.5084, 0.3273,
0.2210

 0.0000, 0.2755,
0.0000

 105.0281, 0.3267,
0.2285

 0.0000, 0.0000,
0.0000

 134.0802, 0.3261,

0.2350

168.0493, 0.3255,
0.2407

■ 12.4435, 0.3295,
0.1589

■ 12.4435, 0.3295,
0.1589

■ 12.4415, 0.3295,
0.1589

■ 12.8945, 0.3284,
0.1624

■ 13.7323, 0.3270,
0.1692

■ 15.1042, 0.3255,
0.1803

■ 17.0806, 0.3238,
0.1953

■ 19.7209, 0.3219,
0.2139

■ 23.0778, 0.3200,
0.2352

■ 27.1984, 0.3180,
0.2581

■ 32.1259, 0.3162,
0.2820

■ 37.9003, 0.3144,
0.3058

Harmonies

Analogous

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



12.4435, 0.1826, 0.1199



12.4435, 0.3295, 0.1589



12.4435, 0.5227, 0.2264

Triad

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



12.4435, 0.3295, 0.1589



12.4435, 0.4890, 0.5110



12.4435, 0.0730, 0.2232

Complementary

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



12.4435, 0.3295, 0.1589



31.8506, 0.2994, 0.5977

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.



12.4435, 0.1146, 0.4277



12.4435, 0.3295, 0.1589



12.4435, 0.3520, 0.6480

Square

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



12.4435, 0.3295, 0.1589



12.4435, 0.6061, 0.3939



12.4435, 0.2164, 0.6552



12.4435, 0.0734, 0.1371

Rectangle

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



12.4435, 0.3295, 0.1589



12.4435, 0.6134, 0.2779



12.4435, 0.2164, 0.6552



12.4435, 0.0809, 0.2759

Sweetspot

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



12.4441, 0.3295, 0.1589



48.8547, 0.3181, 0.2568



3.2553, 0.1511, 0.0606



10.1027, 0.3189, 0.2471



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290

Same Dimension

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



12.4441, 0.3295, 0.1589



22.5577, 0.3297, 0.1590



10.0925, 0.5093, 0.2580



8.6417, 0.3143, 0.3073



8.9052, 0.3294, 0.1588



0.2817, 0.3268, 0.1574

Inverse Universe

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



12.4441, 0.3295, 0.1589



22.5577, 0.3297, 0.1590



32.6631, 0.2691, 0.4888



8.6417, 0.3143, 0.3073



8.9052, 0.3294, 0.1588



0.2817, 0.3268, 0.1574

Previews

White Background



This preview shows how the Yxy color 12.4435, 0.3295, 0.1589 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 12.4435, 0.3295, 0.1589 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

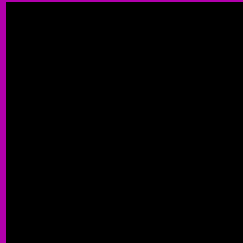
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.4435, 0.3295, 0.1589

Background



This preview shows how black text looks on a background with the Yxy color 12.4435, 0.3295, 0.1589.



This preview shows how white text looks on a background with the Yxy color 12.4435, 0.3295, 0.1589.

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

12.4435, 0.3295, 0.1589

Protanopia

13.2404, 0.1744, 0.1477

Deuteranopia

13.1093, 0.2155, 0.2094



Tritanopia

12.9270, 0.4856, 0.3238

Trichromacy



Original Color

12.4435, 0.3295, 0.1589



Protanomaly

8.4641, 0.1842, 0.1143



Deuteranomaly

9.5458, 0.2405, 0.1553



Tritanomaly

11.5811, 0.4333, 0.2438

Monochromacy



Original Color

12.4435, 0.3295, 0.1589



Achromatopsia

6.6626, 0.3127, 0.3290



Achromatomaly

6.4376, 0.3227, 0.2018

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.4435, 0.3295, 0.1589 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(178, 0, 172)` looks like.

```
.text, #text, p{  
  color:rgb(178, 0, 172)  
}
```

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(178, 0, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 0, 172) }
```

Border

The CSS property to change the border of an element to Yxy 12.4435, 0.3295, 0.1589 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(178, 0, 172) }
```

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

```
.border{ border-color:rgb(178, 0, 172) }
```

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

Here you see how a box with a 4 pixel rgb(178, 0, 172) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 0, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 0, 172);  
box-shadow:4px 4px 4px 4px rgb(178, 0,  
172) }
```


Background

The CSS property to change the background color of an element to Yxy 12.4435, 0.3295, 0.1589 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 0, 172) }
```

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

```
.background{ background-color: rgb(178, 0,  
172) }
```

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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