

Converting Colors

$Y_{xy}(12.8989, 0.3322, 0.1624)$

Have a look what the booklet for
Yxy(12.8989, 0.3322, 0.1624)
contains.

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Color

Yxy(12.8989, 0.3322, 0.1624)

Conversions

Conversions Part 1

Format	Color
Hex	B40AAC
RGB	180, 10, 172
RGB Percent	71%, 4%, 67%
CMY	0.2940, 0.9617, 0.3254
CMYK	0.00, 0.95, 0.04, 0.29
HSL	303°, 90%, 37%
HSV	303°, 95%, 71%
XYZ	26.3856, 12.8989, 40.1423
YIQ	79.2980, 49.3180, 86.4220

Conversions

Conversions Part 2

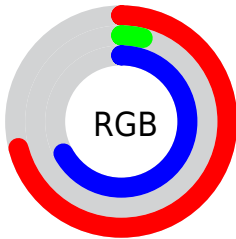
Format	Color
R_{YB}	180, 10, 172
Decimal	11799212
CIE _{Lab}	42.61, 73.54, -42.36
CIE _{LCh}	43, 84.866, 330.059
Yxy	12.8989, 0.3322, 0.1624
Android (android.graphics.Color)	4289989292 (0xFFB40AAC)
YUV	79.2980, 45.7021, 88.3157
Hunter-Lab	35.9150, 68.2866, -41.1280

Details

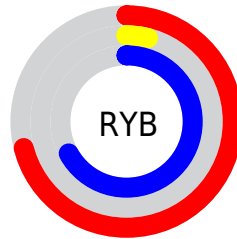
The Yxy color **12.8989, 0.3322, 0.1624** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **32.7635, 0.2992, 0.5921**, and the grayscale version is **7.7586, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.0969, 0.3305, 0.1933**, and **5.4695, 0.3269, 0.1575** is the 20% darker color. If you saturate the color by 10%, you get **12.6697, 0.3330, 0.1608**, and if you desaturate by 10%, it is **13.5400, 0.3306, 0.1672**.

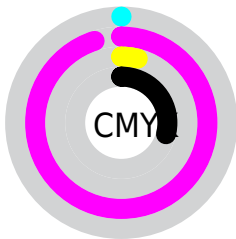
Distribution



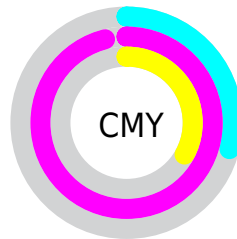
- Red (71%)
- Green (4%)
- Blue (67%)



- Red (71%)
- Yellow (4%)
- Blue (67%)



- Cyan (0%)
- Magenta (95%)
- Yellow (4%)
- Black (29%)





- Cyan (29%)
- Magenta (96%)
- Yellow (33%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8989, 0.3322, 0.1624 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 12.8989, 0.3322, 0.1624 by changing the saturation by 10% instead.


 12.8989, 0.3322,
0.1624


 12.8989, 0.3322,
0.1624


210.2687, 0.3260,
0.2475


 7.3590, 0.3320,
0.1417


 31.1220, 0.3311,
0.1932


 3.6876, 0.3306,
0.1160


 44.5740, 0.3303,
0.2049

 1.5004, 0.3261,
0.0843

 61.4322, 0.3295,
0.2148

 0.2890, 0.3189,
0.0333

 82.0808, 0.3287,
0.2232

 0.0000, 0.2880,
0.0000

 106.9044, 0.3279,
0.2305

 0.0000, 0.0000,
0.0000

 136.2873, 0.3272,

0.2369

170.6140, 0.3266,
0.2426

■ 12.8989, 0.3322,
0.1624

■ 12.8989, 0.3322,
0.1624

■ 12.6697, 0.3330,
0.1608

■ 13.5400, 0.3306,
0.1672

■ 14.6899, 0.3287,
0.1761

■ 16.4286, 0.3266,
0.1893

■ 18.8221, 0.3244,
0.2062

■ 21.9274, 0.3221,
0.2262

■ 25.7955, 0.3198,
0.2483

■ 30.4725, 0.3176,
0.2716

■ 36.0011, 0.3155,
0.2952

■ 42.4208, 0.3136,
0.3186

Harmonies

Analogous

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



12.8989, 0.1866, 0.1231



12.8989, 0.3322, 0.1624



12.8989, 0.5207, 0.2298

Triad

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



12.8989, 0.3322, 0.1624



12.8989, 0.4870, 0.5130



12.8989, 0.0760, 0.2242

Complementary

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



12.8989, 0.3322, 0.1624



32.7635, 0.2992, 0.5921

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.



12.8989, 0.1174, 0.4219



12.8989, 0.3322, 0.1624



12.8989, 0.3535, 0.6464

Square

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



12.8989, 0.3322, 0.1624



12.8989, 0.6021, 0.3979



12.8989, 0.2182, 0.6443



12.8989, 0.0765, 0.1396

Rectangle

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



12.8989, 0.3322, 0.1624



12.8989, 0.6084, 0.2811



12.8989, 0.2182, 0.6443



12.8989, 0.0839, 0.2754

Sweetspot

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



12.8995, 0.3322, 0.1624



51.7357, 0.3185, 0.2624



3.6144, 0.1538, 0.0650



10.4167, 0.3194, 0.2525



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.



12.8995, 0.3322, 0.1624



22.9523, 0.3332, 0.1609



10.6451, 0.4957, 0.2543



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.



12.8995, 0.3322, 0.1624



22.9523, 0.3332, 0.1609



33.6519, 0.2677, 0.4798



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 12.8989, 0.3322, 0.1624 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 12.8989, 0.3322, 0.1624 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

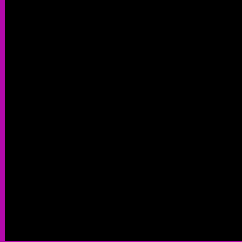
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8989, 0.3322, 0.1624

Background



This preview shows how black text looks on a background with the Yxy color 12.8989, 0.3322, 0.1624.



This preview shows how white text looks on a background with the Yxy color 12.8989, 0.3322, 0.1624.

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

12.8989, 0.3322, 0.1624

Protanopia

13.5271, 0.1744, 0.1477

Deuteranopia

13.3766, 0.2174, 0.2118



Tritanopia

13.1482, 0.4882, 0.3240

Trichromacy



Original Color

12.8989, 0.3322, 0.1624



Protanomaly

9.1236, 0.1849, 0.1192



Deuteranomaly

10.1386, 0.2436, 0.1619



Tritanomaly

12.1144, 0.4349, 0.2487

Monochromacy



Original Color

12.8989, 0.3322, 0.1624



Achromatopsia

7.8187, 0.3127, 0.3290



Achromatomaly

7.5436, 0.3238, 0.2124

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8989, 0.3322, 0.1624 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(180, 10, 172)` looks like.

```
.text, #text, p{  
  color:rgb(180, 10, 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(180, 10, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 10, 172) }
```

Border

The CSS property to change the border of an element to Yxy 12.8989, 0.3322, 0.1624 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(180, 10, 172) }
```

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

```
.border{ border-color:rgb(180, 10, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 10, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 10, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 10, 172);  
box-shadow:4px 4px 4px 4px rgb(180, 10,  
172) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8989, 0.3322, 0.1624 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 10, 172) }
```

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

```
.background{ background-color: rgb(180, 10,  
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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