

Converting Colors

$Y_{xy}(12.8770, 0.3205, 0.1634)$

Have a look what the booklet for
Yxy(12.8770, 0.3205, 0.1634)
contains.

Yxy(12.8813, 0.3205, 0.1634)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.8813, 0.3205, 0.1634)

Conversions

Conversions Part 1

Format	Color
Hex	AD1FAD
RGB	173, 31, 173
RGB Percent	68%, 12%, 68%
CMY	0.3216, 0.8784, 0.3216
CMYK	0.00, 0.82, 0.00, 0.32
HSL	300°, 70%, 40%
HSV	300°, 82%, 68%
XYZ	25.2660, 12.8813, 40.6857
YIQ	89.6460, 39.0500, 74.2660

Conversions

Conversions Part 2

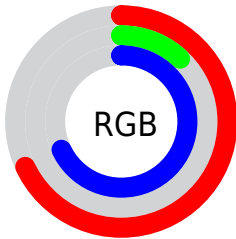
Format	Color
R_{YB}	173, 31, 173
Decimal	11345837
CIE _{Lab}	42.58, 68.97, -43.05
CIE _{LCh}	43, 81.305, 328.032
Y _{xy}	12.8813, 0.3205, 0.1634
Android (android.graphics.Color)	4289535917 (0xFFAD1FAD)
Y _{UV}	89.6460, 41.0935, 73.1015
Hunter-Lab	35.8905, 62.8507, -42.0881

Details

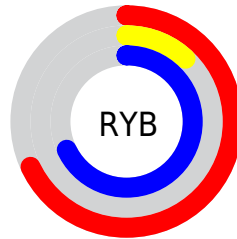
The Yxy color **12.8813, 0.3205, 0.1634** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **30.2786, 0.3010, 0.5784**, and the grayscale version is **10.0426, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.1787, 0.3221, 0.1946**, and **5.0691, 0.3129, 0.1497** is the 20% darker color. If you saturate the color by 10%, you get **12.2076, 0.3208, 0.1571**, and if you desaturate by 10%, it is **14.0409, 0.3200, 0.1738**.

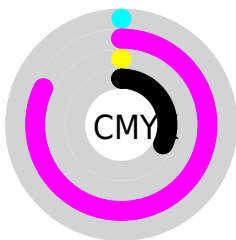
Distribution



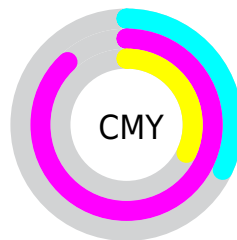
- Red (68%)
- Green (12%)
- Blue (68%)



- Red (68%)
- Yellow (12%)
- Blue (68%)



- Cyan (0%)
- Magenta (82%)
- Yellow (0%)
- Black (32%)





- Cyan (32%)
- Magenta (88%)
- Yellow (32%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8813, 0.3205, 0.1634 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 12.8813, 0.3205, 0.1634 by changing the saturation by 10% instead.


 12.8813, 0.3205,
0.1634


 12.8813, 0.3205,
0.1634


210.1555, 0.3208,
0.2483

 7.3469, 0.3185,
0.1426


 31.0904, 0.3219,
0.1942


 3.6800, 0.3145,
0.1169


 44.5338, 0.3220,
0.2059

 1.4962, 0.3066,
0.0850

 61.3823, 0.3220,
0.2157

 0.2860, 0.2940,
0.0334

 82.0204, 0.3218,
0.2241

 0.0000, 0.2557,
0.0000

 106.8323, 0.3216,
0.2314

 0.0000, 0.0000,
0.0000

 136.2026, 0.3213,

0.2378

170.5155, 0.3211,
0.2434

■ 12.8813, 0.3205,
0.1634

■ 12.8813, 0.3205,
0.1634

■ 12.2076, 0.3208,
0.1571

■ 14.0409, 0.3200,
0.1738

■ 11.9013, 0.3209,
0.1542

■ 15.7526, 0.3193,
0.1884

■ 18.0745, 0.3185,
0.2066

■ 21.0566, 0.3175,
0.2277

■ 24.7439, 0.3164,
0.2509

■ 29.1773, 0.3152,
0.2753

■ 34.3948, 0.3141,
0.2999

■ 40.4316, 0.3129,
0.3241

■ 47.3209, 0.3119,
0.3473

Harmonies

Analogous

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



12.8813, 0.1836, 0.1266



12.8813, 0.3205, 0.1634



12.8813, 0.5015, 0.2285

Triad

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



12.8813, 0.3205, 0.1634



12.8813, 0.4955, 0.5045



12.8813, 0.0830, 0.2381

Complementary

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



12.8813, 0.3205, 0.1634



30.2786, 0.3010, 0.5784

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.



12.8813, 0.1291, 0.4353



12.8813, 0.3205, 0.1634



12.8813, 0.3654, 0.6289

Square

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



12.8813, 0.3205, 0.1634



12.8813, 0.5981, 0.3924



12.8813, 0.2324, 0.6367



12.8813, 0.0806, 0.1485

Rectangle

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



12.8813, 0.3205, 0.1634



12.8813, 0.5918, 0.2794



12.8813, 0.2324, 0.6367



12.8813, 0.0923, 0.2907

Sweetspot

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



12.8819, 0.3205, 0.1634



49.4308, 0.3156, 0.2670



4.2893, 0.1629, 0.0812



10.1580, 0.3160, 0.2587



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290

Same Dimension

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



12.8819, 0.3205, 0.1634



21.4114, 0.3209, 0.1547



10.8245, 0.4517, 0.2430



8.1481, 0.3138, 0.3067



8.7430, 0.3209, 0.1542



0.2432, 0.3209, 0.1542

Inverse Universe

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



12.8819, 0.3205, 0.1634



21.4114, 0.3209, 0.1547



31.1390, 0.2685, 0.4670



8.1481, 0.3138, 0.3067



8.7430, 0.3209, 0.1542



0.2432, 0.3209, 0.1542

Previews

White Background



This preview shows how the Yxy color 12.8813, 0.3205, 0.1634 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 12.8813, 0.3205, 0.1634 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

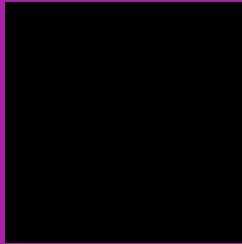
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8813, 0.3205, 0.1634

Background



This preview shows how black text looks on a background with the Yxy color 12.8813, 0.3205, 0.1634.



This preview shows how white text looks on a background with the Yxy color 12.8813, 0.3205, 0.1634.

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

12.8813, 0.3205, 0.1634

Protanopia

13.2894, 0.1742, 0.1469

Deuteranopia

13.3053, 0.2146, 0.2098



Tritanopia

12.8519, 0.4647, 0.3218

Trichromacy



Original Color

12.8813, 0.3205, 0.1634



Protanomaly

9.8945, 0.1863, 0.1285



Deuteranomaly

10.9622, 0.2396, 0.1707



Tritanomaly

12.2031, 0.4110, 0.2493

Monochromacy



Original Color

12.8813, 0.3205, 0.1634



Achromatopsia

10.2242, 0.3127, 0.3290



Achromatomaly

9.6054, 0.3174, 0.2298

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8813, 0.3205, 0.1634 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(173, 31, 173)` looks like.

```
.text, #text, p{  
    color:rgb(173, 31, 173)  
}
```

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(173, 31, 173) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(173, 31, 173) }
```

Border

The CSS property to change the border of an element to Yxy 12.8813, 0.3205, 0.1634 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(173, 31, 173) }
```

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

```
.border{ border-color:rgb(173, 31, 173) }
```

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

Here you see how a box with a 4 pixel `rgb(173, 31, 173)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(173, 31, 173); -webkit-box-  
shadow:4px 4px 4px 4px rgb(173, 31, 173);  
box-shadow:4px 4px 4px 4px rgb(173, 31,  
173) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8813, 0.3205, 0.1634 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(173, 31, 173) }
```

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

```
.background{ background-color: rgb(173, 31,  
173) }
```

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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