

Converting Colors

$Y_{xy}(34.9770, 0.3198, 0.1788)$

Have a look what the booklet for
Yxy(34.9770, 0.3198, 0.1788)
contains.

Yxy(34.9770, 0.3198, 0.1788)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(34.9770, 0.3198, 0.1788)

Conversions

Conversions Part 1

Format	Color
Hex	FF55FF
RGB	255, 85, 255
RGB Percent	100%, 33%, 100%
CMY	0.0000, 0.6670, 0.0000
CMYK	0.00, 0.67, 0.00, 0.00
HSL	300°, 100%, 67%
HSV	300°, 67%, 100%
XYZ	62.5595, 34.9770, 98.0843
YIQ	155.2100, 46.7500, 88.9100

Conversions

Conversions Part 2

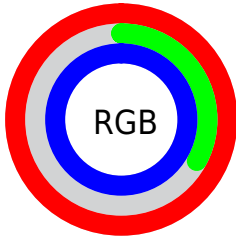
Format	Color
R _Y B	255, 85, 255
Decimal	16733695
CIE Lab	65.73, 82.64, -52.24
CIE LCh	66, 97.772, 327.702
Yxy	34.9770, 0.3198, 0.1788
Android (android.graphics.Color)	4294923775 (0xFFFF55FF)
YUV	155.2100, 49.1965, 87.5158
Hunter-Lab	59.1414, 85.3193, -56.9318

Details

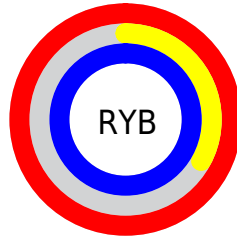
The Yxy color **34.9770, 0.3198, 0.1788** is a light color, and the websafe version is hex **FF66FF**. The color can be described as light muted magenta. A complement of this color would be **74.1021, 0.3026, 0.5451**, and the grayscale version is **32.6163, 0.3127, 0.3290**.

A 20% lighter version of the original color is **49.0378, 0.3176, 0.2239**, and **15.5466, 0.3159, 0.1514** is the 20% darker color. If you saturate the color by 10%, you get **31.6512, 0.3203, 0.1666**, and if you desaturate by 10%, it is **39.7226, 0.3190, 0.1952**.

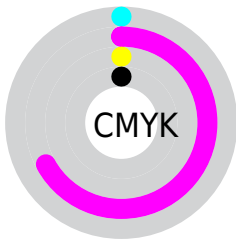
Distribution



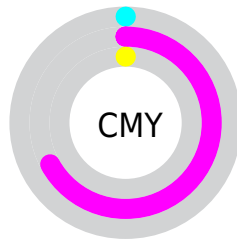
- Red (100%)
- Green (33%)
- Blue (100%)



- Red (100%)
- Yellow (33%)
- Blue (100%)



- Cyan (0%)
- Magenta (67%)
- Yellow (0%)
- Black (0%)



- Cyan (0%)
- Magenta (67%)
- Yellow (0%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 34.9770, 0.3198, 0.1788 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 34.9770, 0.3198, 0.1788 by changing the saturation by 10% instead.


 34.9770, 0.3198,
0.1788

 34.9770, 0.3198,
0.1788


324.4668, 0.3201,
0.2452


 23.6452, 0.3188,
0.1648


 67.4501, 0.3207,
0.2010

 15.0706, 0.3171,
0.1482


 89.3602, 0.3208,
0.2099

 8.8690, 0.3142,
0.1284


 115.5652, 0.3208,
0.2176

 4.6558, 0.3093,
0.1047

 146.4494, 0.3207,
0.2245

 2.0468, 0.3005,
0.0766

182.3973, 0.3206,
0.2305

 0.6344, 0.2849,
0.0434

223.7932, 0.3205,

 0.0000, 0.2576,

0.2359

0.0000

271.0216, 0.3203,
0.2408

■ 0.0000, 0.1837,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 34.9770, 0.3198,
0.1788

■ 34.9770, 0.3198,
0.1788

■ 31.6512, 0.3203,
0.1666

■ 39.7226, 0.3190,
0.1952

■ 29.6194, 0.3207,
0.1587


■ 46.0656, 0.3181,
0.2152


■ 28.6628, 0.3209,
0.1549

■ 54.1166, 0.3170,
0.2379

■ 28.4800, 0.3209,
0.1542

■ 63.9864, 0.3158,
0.2623

 75.7769, 0.3147,
0.2875

 89.5821, 0.3135,
0.3126

100.0000, 0.3127,
0.3290

Harmonies

Analogous

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



34.9770, 0.1969, 0.1439



34.9770, 0.3198, 0.1788



34.9770, 0.4758, 0.2402

Triad

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



34.9770, 0.3198, 0.1788



34.9770, 0.4879, 0.4965



34.9770, 0.1039, 0.2547

Complementary

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



34.9770, 0.3198, 0.1788



74.1021, 0.3026, 0.5451

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.



34.9770, 0.1521, 0.4239



34.9770, 0.3198, 0.1788



34.9770, 0.3715, 0.5915

Square

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



34.9770, 0.3198, 0.1788



34.9770, 0.5720, 0.3974



34.9770, 0.2511, 0.5891



34.9770, 0.0989, 0.1685

Rectangle

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



34.9770, 0.3198, 0.1788



34.9770, 0.5559, 0.2893



34.9770, 0.2511, 0.5891



34.9770, 0.1142, 0.3019

Sweetspot

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



34.9643, 0.3198, 0.1788



71.6657, 0.3151, 0.2792



15.6318, 0.1828, 0.1141



14.6268, 0.3154, 0.2721



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

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



34.9643, 0.3198, 0.1788



30.8477, 0.3205, 0.1635



30.6451, 0.4186, 0.2480



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542

Inverse Universe

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



34.9643, 0.3198, 0.1788



30.8477, 0.3205, 0.1635



76.3483, 0.2696, 0.4403



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542

Previews

White Background



This preview shows how the Yxy color 34.9770, 0.3198, 0.1788 looks on a white background.

Color Contrast Check

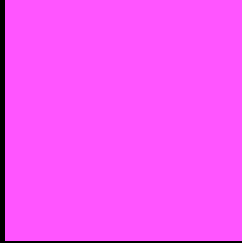
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the Yxy color 34.9770, 0.3198, 0.1788 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

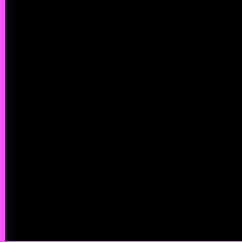
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 34.9770, 0.3198, 0.1788

Background



This preview shows how black text looks on a background with the Yxy color 34.9770, 0.3198, 0.1788.



This preview shows how white text looks on a background with the Yxy color 34.9770, 0.3198, 0.1788.

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

34.9770, 0.3198, 0.1788

Protanopia

35.3270, 0.2193, 0.2047

Deuteranopia

35.1893, 0.2247, 0.2185



Tritanopia

34.7820, 0.4393, 0.3207

Trichromacy



Original Color

34.9770, 0.3198, 0.1788



Protanomaly

31.8876, 0.2459, 0.1844



Deuteranomaly

31.5428, 0.2502, 0.1916

Tritanomaly

33.9190, 0.3937, 0.2592

Monochromacy



Original Color

34.9770, 0.3198, 0.1788



Achromatopsia

32.7778, 0.3127, 0.3290



Achromatomaly

30.8032, 0.3164, 0.2507

CSS Examples

Text

The CSS property to change the color of the text to Yxy 34.9770, 0.3198, 0.1788 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(255, 85, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 85, 255)  
}
```

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(255, 85, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 85, 255) }
```

Border

The CSS property to change the border of an element to Yxy 34.9770, 0.3198, 0.1788 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(255, 85, 255) }
```

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

```
.border{ border-color:rgb(255, 85, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 85, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 85, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 85, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 85,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 34.9770, 0.3198, 0.1788 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 85, 255) }
```

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

```
.background{ background-color: rgb(255, 85,  
255) }
```

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