

Converting Colors

$Y_{xy}(42.2102, 0.3435, 0.2306)$

Have a look what the booklet for
Yxy(42.2102, 0.3435, 0.2306)
contains.

Yxy(42.2998, 0.3431, 0.2305)	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(42.2998, 0.3431, 0.2305)

Conversions

Conversions Part 1

Format	Color
Hex	FF80E4
RGB	255, 128, 228
RGB Percent	100%, 50%, 89%
CMY	0.0000, 0.4980, 0.1059
CMYK	0.00, 0.50, 0.11, 0.00
HSL	313°, 100%, 75%
HSV	313°, 50%, 100%
XYZ	62.9634, 42.2998, 78.2500
YIQ	177.3730, 43.5920, 58.0240

Conversions

Conversions Part 2

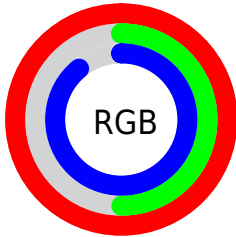
Format	Color
R_{YB}	255, 128, 228
Decimal	16744676
CIE _{Lab}	71.08, 60.53, -29.01
CIE _{LCh}	71, 67.127, 334.393
Yxy	42.2998, 0.3431, 0.2305
Android (android.graphics.Color)	4294934756 (0xFFFF80E4)
YUV	177.3730, 24.9591, 68.0789
Hunter-Lab	65.0383, 58.9883, -25.8072

Details

The Yxy color **42.2998, 0.3431, 0.2305** is a light color, and the websafe version is hex **FF66CC**. A complement of this color would be **78.4761, 0.2931, 0.4548**, and the grayscale version is **44.0233, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.7610, 0.3160, 0.2595**, and **19.3490, 0.3500, 0.2082** is the 20% darker color. If you saturate the color by 10%, you get **36.1679, 0.3512, 0.2142**, and if you desaturate by 10%, it is **50.1160, 0.3355, 0.2492**.

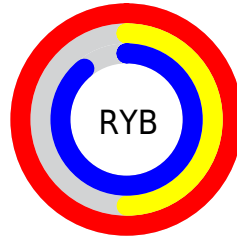
Distribution



Red (100%)

Green (50%)

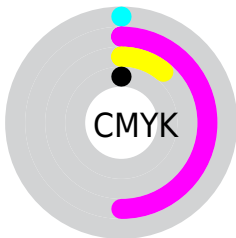
Blue (89%)



Red (100%)

Yellow (50%)

Blue (89%)

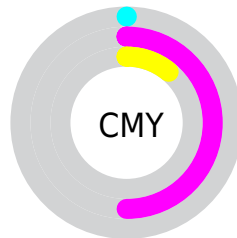


Cyan (0%)

Magenta (50%)

Yellow (11%)

Black (0%)



Cyan (0%)


Magenta (50%)


Yellow (11%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 42.2998, 0.3431, 0.2305 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 42.2998, 0.3431, 0.2305 by changing the saturation by 10% instead.


 42.2998, 0.3431,
0.2305


 42.2998, 0.3431,
0.2305


355.7242, 0.3297,
0.2759

 29.3361, 0.3460,
0.2203


 78.6532, 0.3386,
0.2461

 19.3352, 0.3494,
0.2078


 102.8116, 0.3368,
0.2523

 11.9128, 0.3535,
0.1922


 131.4705, 0.3352,
0.2575

 6.6843, 0.3584,
0.1723

165.0141, 0.3339,
0.2622

 3.2655, 0.3644,
0.1463

203.8269, 0.3326,
0.2662

 1.2718, 0.3711,
0.1115

248.2932, 0.3316,

 0.1192, 0.3927,

0.2698

0.0255

298.7975, 0.3306,
0.2730

0.0000, 0.3612,
0.0000

0.0000, 0.0000,
0.0000

42.2998, 0.3431,
0.2305

42.2998, 0.3431,
0.2305

36.1679, 0.3512,
0.2142

50.1160, 0.3355,
0.2492

31.5870, 0.3597,
0.2013

59.7255, 0.3287,
0.2692

28.4128, 0.3682,
0.1927

71.2344, 0.3225,
0.2897

26.4712, 0.3766,
0.1888

84.7393, 0.3172,
0.3099

■ 25.4837, 0.3845,
0.1893

100.0000, 0.3127,
0.3290

■ 25.4677, 0.3847,
0.1893

Harmonies

Analogous

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



42.2998, 0.2506, 0.1976



42.2998, 0.3431, 0.2305



42.2998, 0.4398, 0.2828

Triad

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



42.2998, 0.3431, 0.2305



42.2998, 0.4348, 0.4768



42.2998, 0.1579, 0.2682

Complementary

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



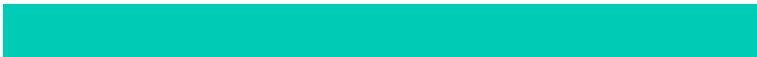
42.2998, 0.3431, 0.2305



78.4761, 0.2931, 0.4548

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.



42.2998, 0.1930, 0.3661



42.2998, 0.3431, 0.2305



42.2998, 0.3516, 0.5091

Square

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



42.2998, 0.3431, 0.2305



42.2998, 0.4911, 0.4133



42.2998, 0.2630, 0.4689



42.2998, 0.1570, 0.2103

Rectangle

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



42.2998, 0.3431, 0.2305



42.2998, 0.4845, 0.3242



42.2998, 0.2630, 0.4689



42.2998, 0.1656, 0.2969

Sweetspot

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



42.3017, 0.3431, 0.2305



77.4643, 0.3199, 0.2994



29.4716, 0.2339, 0.1768



15.9828, 0.3210, 0.2952



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.



42.3017, 0.3431, 0.2305



36.0625, 0.3514, 0.2139



39.4568, 0.4104, 0.2899



18.2303, 0.3171, 0.3105



13.3302, 0.3834, 0.1886



1.3136, 0.3749, 0.1839

Inverse Universe

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



42.3017, 0.3431, 0.2305



36.0625, 0.3514, 0.2139



81.1143, 0.2641, 0.3746



18.2303, 0.3171, 0.3105



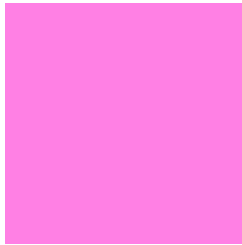
13.3302, 0.3834, 0.1886



1.3136, 0.3749, 0.1839

Previews

White Background



This preview shows how the Yxy color 42.2998, 0.3431, 0.2305 looks on a white background.

Color Contrast Check

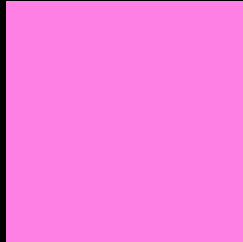
Large Text (above 18pt) WCAG AA × Fail

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 42.2998, 0.3431, 0.2305 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

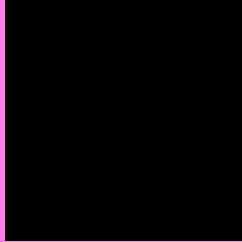
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 42.2998, 0.3431, 0.2305

Background



This preview shows how black text looks on a background with the Yxy color 42.2998, 0.3431, 0.2305.



This preview shows how white text looks on a background with the Yxy color 42.2998, 0.3431, 0.2305.

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

42.2998, 0.3431, 0.2305

Protanopia

42.9281, 0.2381, 0.2280

Deuteranopia

42.5618, 0.2714, 0.2653



Tritanopia

42.0872, 0.4091, 0.3174

Trichromacy



Original Color

42.2998, 0.3431, 0.2305



Protanomaly

40.8086, 0.2684, 0.2253



Deuteranomaly

40.9666, 0.2943, 0.2474



Tritanomaly

41.8784, 0.3844, 0.2826

Monochromacy



Original Color

42.2998, 0.3431, 0.2305



Achromatopsia

43.9657, 0.3127, 0.3290



Achromatomaly

41.7609, 0.3232, 0.2839

CSS Examples

Text

The CSS property to change the color of the text to Yxy 42.2998, 0.3431, 0.2305 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, 128, 228)` looks like.

```
.text, #text, p{  
    color:rgb(255, 128, 228)  
}
```

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, 128, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 128, 228) }
```

Border

The CSS property to change the border of an element to Yxy 42.2998, 0.3431, 0.2305 is called "border". The border property can be set on classes, ids or directly on the HTML element.

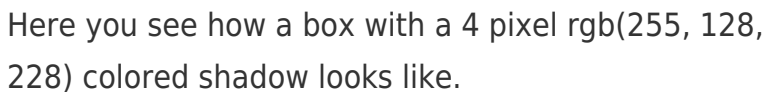
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(255, 128, 228) }
```

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

```
.border{ border-color:rgb(255, 128, 228) }
```

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



Here you see how a box with a 4 pixel `rgb(255, 128, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 128, 228); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 128, 228); box-shadow:4px 4px 4px 4px rgb(255, 128, 228) }
```


Background

The CSS property to change the background color of an element to Yxy 42.2998, 0.3431, 0.2305 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 128, 228) }
```

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

```
.background{ background-color: rgb(255,  
128, 228) }
```

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