

# Converting Colors

$Y_{xy}(42.1908, 0.3446, 0.2318)$

Have a look what the booklet for  
Yxy(42.1908, 0.3446, 0.2318)  
contains.

<b>Yxy(42.1893, 0.3451, 0.2322)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(42.1893, 0.3451, 0.2322)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF80E2
RGB	255, 128, 226
RGB Percent	100%, 50%, 89%
CMY	0.0000, 0.4982, 0.1137
CMYK	0.00, 0.50, 0.11, 0.00
HSL	314°, 100%, 75%
HSV	314°, 50%, 100%
XYZ	62.7025, 42.1893, 76.8020
YIQ	177.1450, 44.2340, 57.4020

# Conversions

## Conversions Part 2

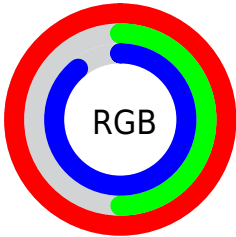
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 128, 226
Decimal	16744674
CIE Lab	71.00, 60.26, -28.03
CIE LCh	71, 66.459, 335.053
Yxy	42.1893, 0.3451, 0.2322
Android (android.graphics.Color)	4294934754 (0xFFFF80E2)
YUV	177.1450, 24.0855, 68.2788
Hunter-Lab	64.9533, 58.6464, -24.6383

# Details

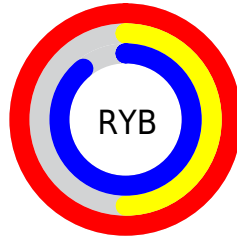
The Yxy color **42.1893, 0.3451, 0.2322** is a light color, and the websafe version is hex **FF66CC**. A complement of this color would be **78.5391, 0.2922, 0.4523**, and the grayscale version is **43.8893, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.7610, 0.3160, 0.2595**, and **19.2728, 0.3528, 0.2103** is the 20% darker color. If you saturate the color by 10%, you get **36.0324, 0.3538, 0.2161**, and if you desaturate by 10%, it is **50.0120, 0.3369, 0.2506**.

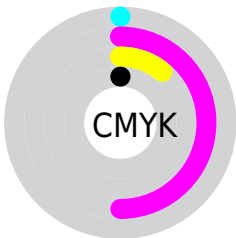
# Distribution



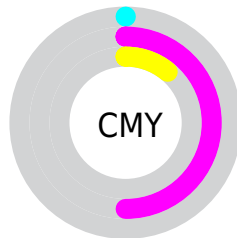
- Red (100%)
- Green (50%)
- Blue (89%)



- 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 42.1893, 0.3451, 0.2322 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 42.1893, 0.3451, 0.2322 by changing the saturation by 10% instead.




 42.1893, 0.3451,  
0.2322


 42.1893, 0.3451,  
0.2322

355.2671, 0.3306,  
0.2769


 29.2495, 0.3482,  
0.2221


 78.4860, 0.3402,  
0.2476

 19.2697, 0.3520,  
0.2098

 102.6118, 0.3383,  
0.2537

 11.8653, 0.3566,  
0.1943


 131.2351, 0.3366,  
0.2589

 6.6520, 0.3622,  
0.1745

164.7402, 0.3351,  
0.2634

 3.2454, 0.3692,  
0.1485

203.5115, 0.3338,  
0.2674

 1.2612, 0.3776,  
0.1136

247.9335, 0.3326,

 0.1108, 0.4035,

0.2709

0.0247

298.3906, 0.3316,  
0.2741

0.0000, 0.3746,  
0.0000

0.0000, 0.0000,  
0.0000

42.1893, 0.3451,  
0.2322

42.1893, 0.3451,  
0.2322

36.0324, 0.3538,  
0.2161

50.0120, 0.3369,  
0.2506

31.4375, 0.3630,  
0.2035

59.6391, 0.3296,  
0.2703

28.2504, 0.3722,  
0.1951

71.1669, 0.3231,  
0.2904

26.2970, 0.3813,  
0.1915

84.6920, 0.3175,  
0.3102

■ 25.2980, 0.3900,  
0.1923

100.0000, 0.3127,  
0.3290

■ 25.2831, 0.3902,  
0.1923

# Harmonies

## Analogous

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



42.1893, 0.2529, 0.1989



42.1893, 0.3451, 0.2322



42.1893, 0.4405, 0.2846

# Triad

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



42.1893, 0.3451, 0.2322



42.1893, 0.4325, 0.4770



42.1893, 0.1587, 0.2671

# Complementary

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



42.1893, 0.3451, 0.2322



78.5391, 0.2922, 0.4523

# 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.



42.1893, 0.1928, 0.3634



42.1893, 0.3451, 0.2322



42.1893, 0.3495, 0.5075

# Square

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



42.1893, 0.3451, 0.2322



42.1893, 0.4890, 0.4144



42.1893, 0.2617, 0.4657



42.1893, 0.1584, 0.2105



# Rectangle

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



42.1893, 0.3451, 0.2322



42.1893, 0.4840, 0.3258



42.1893, 0.2617, 0.4657



42.1893, 0.1660, 0.2953

# Sweetspot

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



42.1813, 0.3451, 0.2322



77.4275, 0.3203, 0.3000



29.6665, 0.2354, 0.1773



15.9739, 0.3215, 0.2958



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.



42.1813, 0.3451, 0.2322



35.9350, 0.3540, 0.2159



39.3682, 0.4129, 0.2921



18.2253, 0.3173, 0.3108



13.2348, 0.3888, 0.1915



1.3051, 0.3794, 0.1864



# Inverse Universe

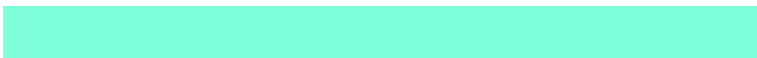
The Inverse Universe completely reimagines the original color for something new.



42.1813, 0.3451, 0.2322



35.9350, 0.3540, 0.2159



81.2214, 0.2631, 0.3720



18.2253, 0.3173, 0.3108



13.2348, 0.3888, 0.1915



1.3051, 0.3794, 0.1864



# Previews

## White Background



This preview shows how the Yxy color 42.1893, 0.3451, 0.2322 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

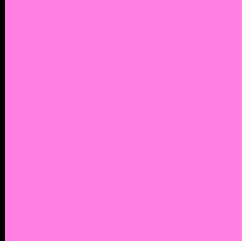
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.1893, 0.3451, 0.2322 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

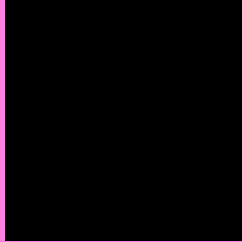
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.1893, 0.3451, 0.2322**

## Background



This preview shows how black text looks on a background with the Yxy color 42.1893, 0.3451, 0.2322.



This preview shows how white text looks on a background with the Yxy color 42.1893, 0.3451, 0.2322.

# 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

42.1893, 0.3451, 0.2322

### Protanopia

42.4568, 0.2373, 0.2266

### Deuteranopia

42.5651, 0.2736, 0.2677



## Tritanopia

42.0872, 0.4091, 0.3174

# Trichromacy



## Original Color

42.1893, 0.3451, 0.2322



## Protanomaly

40.4134, 0.2690, 0.2251



## Deuteranomaly

40.9960, 0.2968, 0.2497



## Tritanomaly

41.8371, 0.3855, 0.2837

# Monochromacy



## Original Color

42.1893, 0.3451, 0.2322



## Achromatopsia

43.9657, 0.3127, 0.3290



## Achromatomaly

41.7155, 0.3241, 0.2851

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.1893, 0.3451, 0.2322 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, 226)` looks like.

```
.text, #text, p{  
    color:rgb(255, 128, 226)  
}
```

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, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 128, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 42.1893, 0.3451, 0.2322 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, 226) }
```

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

```
.border{ border-color:rgb(255, 128, 226) }
```

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, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 128, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 128, 226);  
box-shadow:4px 4px 4px 4px rgb(255, 128,  
226) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.1893, 0.3451, 0.2322 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, 226) }
```

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

```
.background{ background-color: rgb(255,  
128, 226) }
```

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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