

# Converting Colors

$Y_{xy}(46.7304, 0.4219, 0.2962)$

Have a look what the booklet for  
Yxy(46.7304, 0.4219, 0.2962)  
contains.

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# Color

**Yxy(42.1299, 0.4005, 0.2928)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF89AC
RGB	255, 137, 172
RGB Percent	100%, 54%, 67%
CMY	0.0001, 0.4627, 0.3254
CMYK	0.00, 0.46, 0.33, 0.00
HSL	342°, 100%, 77%
HSV	342°, 46%, 100%
XYZ	57.6265, 42.1299, 44.1299
YIQ	176.2720, 59.0930, 35.9010

# Conversions

## Conversions Part 2

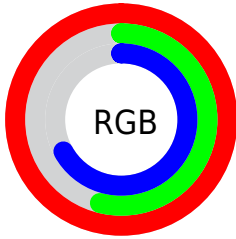
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 137, 172
Decimal	16746924
CIE <sub>Lab</sub>	70.96, 48.36, 1.92
CIE <sub>LCh</sub>	71, 48.395, 2.277
Yxy	42.1299, 0.4005, 0.2928
Android (android.graphics.Color)	4294937004 (0xFFFF89AC)
YUV	176.2720, -2.1061, 69.0445
Hunter-Lab	64.9075, 44.8883, 5.1247

# Details

The Yxy color **42.1299, 0.4005, 0.2928** is a light color, and the websafe version is hex **FF99CC**. A complement of this color would be **81.9917, 0.2664, 0.3703**, and the grayscale version is **43.5564, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.9460, 0.3365, 0.2946**, and **19.1447, 0.4259, 0.2812** is the 20% darker color. If you saturate the color by 10%, you get **35.0748, 0.4312, 0.2864**, and if you desaturate by 10%, it is **50.9948, 0.3744, 0.3005**.

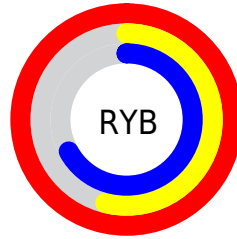
# Distribution



Red (100%)

Green (54%)

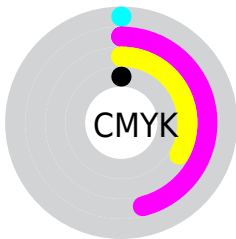
Blue (67%)



Red (100%)

Yellow (54%)

Blue (67%)

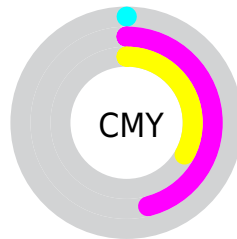


Cyan (0%)

Magenta (46%)

Yellow (33%)

Black (0%)



Cyan (0%)

Magenta (46%)


Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.1299, 0.4005, 0.2928 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 42.1299, 0.4005, 0.2928 by changing the saturation by 10% instead.





 42.1299, 0.4005,  
0.2928

 42.1299, 0.4005,  
0.2928


355.0211, 0.3559,  
0.3114


 29.2030, 0.4118,  
0.2880


 78.3962, 0.3842,  
0.2997

 19.2345, 0.4264,  
0.2818


 102.5044, 0.3781,  
0.3022

 11.8398, 0.4458,  
0.2735


 131.1085, 0.3729,  
0.3043

 6.6347, 0.4731,  
0.2617

164.5928, 0.3685,  
0.3062

 3.2347, 0.5137,  
0.2440

203.3419, 0.3647,  
0.3077

 1.2555, 0.5794,  
0.2147

247.7400, 0.3614,

 0.1063, 0.9276,

0.3091

0.0724

298.1717, 0.3585,  
0.3103

■ 0.0000, 1.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 42.1299, 0.4005,  
0.2928

■ 42.1299, 0.4005,  
0.2928

■ 35.0748, 0.4312,  
0.2864

■ 50.9948, 0.3744,  
0.3005

■ 29.6970, 0.4659,  
0.2823

■ 61.7773, 0.3526,  
0.3086

■ 25.8559, 0.5029,  
0.2817

■ 74.5840, 0.3349,  
0.3167

■ 23.3849, 0.5394,  
0.2857

■ 89.5120, 0.3204,  
0.3244

■ 22.0769, 0.5716,  
0.2944

99.9955, 0.3127,  
0.3290

■ 21.7723, 0.5823,  
0.2981

# Harmonies

## Analogous

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



42.1299, 0.3311, 0.2518



42.1299, 0.4005, 0.2928



42.1299, 0.4450, 0.3431

# Triad

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



42.1299, 0.4005, 0.2928



42.1299, 0.3510, 0.4575



42.1299, 0.1923, 0.2437

# Complementary

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



42.1299, 0.4005, 0.2928



81.9917, 0.2664, 0.3703

# 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.



42.1299, 0.1961, 0.2918



42.1299, 0.4005, 0.2928



42.1299, 0.2836, 0.4294

# Square

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



42.1299, 0.4005, 0.2928



42.1299, 0.4115, 0.4397



42.1299, 0.2276, 0.3624



42.1299, 0.2153, 0.2230



# Rectangle

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



42.1299, 0.4005, 0.2928



42.1299, 0.4516, 0.3783



42.1299, 0.2276, 0.3624



42.1299, 0.1906, 0.2566

# Sweetspot

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



42.1320, 0.4005, 0.2928



77.7867, 0.3313, 0.3185



40.2677, 0.2876, 0.2054



15.9981, 0.3347, 0.3168



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.



42.1320, 0.4005, 0.2928



35.2443, 0.4303, 0.2865



48.4168, 0.4271, 0.3540



18.0757, 0.3247, 0.3220



11.4016, 0.5780, 0.2958



1.1283, 0.5460, 0.2782



# Inverse Universe

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



42.1320, 0.4005, 0.2928



35.2443, 0.4303, 0.2865



69.9065, 0.2459, 0.3013



18.0757, 0.3247, 0.3220



11.4016, 0.5780, 0.2958



1.1283, 0.5460, 0.2782



# Previews

## White Background



This preview shows how the Yxy color 42.1299, 0.4005, 0.2928 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

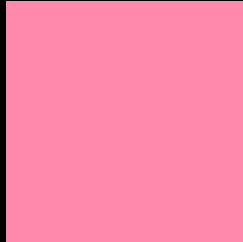
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.1299, 0.4005, 0.2928 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 42.1299, 0.4005, 0.2928**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.1299, 0.4005, 0.2928.



This preview shows how white text looks on a background with the Yxy color 42.1299, 0.4005, 0.2928.

# 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

42.1299, 0.4005, 0.2928

### Protanopia

42.5081, 0.2958, 0.3024

### Deuteranopia

42.2646, 0.3379, 0.3304



## Tritanopia

42.1668, 0.4205, 0.3188

# Trichromacy



## Original Color

42.1299, 0.4005, 0.2928



## Protanomaly

41.2010, 0.3303, 0.2978



## Deuteranomaly

41.5774, 0.3597, 0.3146



## Tritanomaly

42.3302, 0.4130, 0.3094

# Monochromacy



## Original Color

42.1299, 0.4005, 0.2928



## Achromatopsia

43.4154, 0.3127, 0.3290



## Achromatomaly

41.9149, 0.3421, 0.3128

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.1299, 0.4005, 0.2928 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, 137, 172)` looks like.

```
.text, #text, p{  
    color:rgb(255, 137, 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(255, 137, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 137, 172) }
```

## Border

The CSS property to change the border of an element to Yxy 42.1299, 0.4005, 0.2928 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, 137, 172) }
```

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

```
.border{ border-color:rgb(255, 137, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 137, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 137, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 137, 172);  
box-shadow:4px 4px 4px 4px rgb(255, 137,  
172) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.1299, 0.4005, 0.2928 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 137, 172) }
```

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

```
.background{ background-color: rgb(255,  
137, 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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