

# Converting Colors

$Y_{xy}(46.9856, 0.3961, 0.3102)$

Have a look what the booklet for  
Yxy(46.9856, 0.3961, 0.3102)  
contains.

<b>Yxy(46.9827, 0.3962, 0.3103)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(46.9827, 0.3962, 0.3103)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF99AB
RGB	255, 153, 171
RGB Percent	100%, 60%, 67%
CMY	0.0000, 0.4000, 0.3294
CMYK	0.00, 0.40, 0.33, 0.00
HSL	349°, 100%, 80%
HSV	349°, 40%, 100%
XYZ	59.9889, 46.9827, 44.4390
YIQ	185.5500, 55.0140, 27.2220

# Conversions

## Conversions Part 2

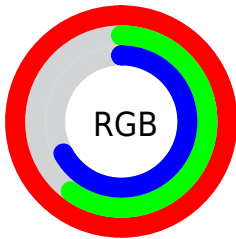
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 153, 171
Decimal	16751019
CIE <sub>Lab</sub>	74.18, 40.19, 7.13
CIE <sub>LCh</sub>	74, 40.817, 10.056
Yxy	46.9827, 0.3962, 0.3103
Android (android.graphics.Color)	4294941099 (0xFFFF99AB)
YUV	185.5500, -7.1731, 60.9077
Hunter-Lab	68.5439, 36.2693, 9.5413

# Details

The Yxy color **46.9827, 0.3962, 0.3103** is a light color, and the websafe version is hex **FF9999**. A complement of this color would be **84.4050, 0.2656, 0.3494**, and the grayscale version is **48.8529, 0.3127, 0.3290**.

A 20% lighter version of the original color is **72.3519, 0.3353, 0.3119**, and **22.1820, 0.4202, 0.3041** is the 20% darker color. If you saturate the color by 10%, you get **38.7687, 0.4295, 0.3061**, and if you desaturate by 10%, it is **57.1031, 0.3684, 0.3150**.

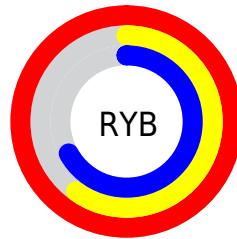
# Distribution



Red (100%)

Green (60%)

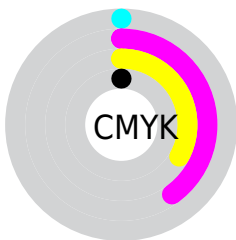
Blue (67%)



Red (100%)

Yellow (60%)

Blue (67%)

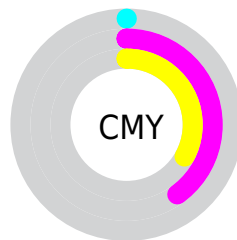


Cyan (0%)

Magenta (40%)

Yellow (33%)

Black (0%)



Cyan (0%)

Magenta (40%)


Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.9827, 0.3962, 0.3103 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 46.9827, 0.3962, 0.3103 by changing the saturation by 10% instead.





 46.9827, 0.3962,  
0.3103


 46.9827, 0.3962,  
0.3103


374.7455, 0.3543,  
0.3204

 33.0220, 0.4067,  
0.3076


 85.6878, 0.3809,  
0.3141

 22.1433, 0.4201,  
0.3040


 111.2010, 0.3752,  
0.3155

 13.9622, 0.4379,  
0.2991


141.3337, 0.3704,  
0.3167

 8.0944, 0.4626,  
0.2919

176.4705, 0.3662,  
0.3176

 4.1554, 0.4988,  
0.2806

216.9957, 0.3626,  
0.3185

 1.7609, 0.5563,  
0.2610

263.2936, 0.3595,

 0.4626, 0.7696,

0.3192

0.2277

315.7488, 0.3567,  
0.3198

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

46.9827, 0.3962,  
0.3103

46.9827, 0.3962,  
0.3103

38.7687, 0.4295,  
0.3061

57.1031, 0.3684,  
0.3150

32.3467, 0.4682,  
0.3032

69.2462, 0.3458,  
0.3199

27.5801, 0.5105,  
0.3024

83.5118, 0.3275,  
0.3246

24.3155, 0.5529,  
0.3045

99.9947, 0.3127,  
0.3290

■ 22.3702, 0.5899,  
0.3099

100.0000, 0.3127,  
0.3290

■ 21.4498, 0.6171,  
0.3173

# Harmonies

## Analogous

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



46.9827, 0.3436, 0.2726



46.9827, 0.3962, 0.3103



46.9827, 0.4245, 0.3542

# Triad

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



46.9827, 0.3962, 0.3103



46.9827, 0.3313, 0.4299



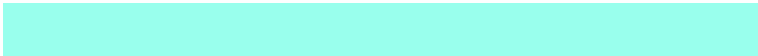
46.9827, 0.2150, 0.2524

# Complementary

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



46.9827, 0.3962, 0.3103



84.4050, 0.2656, 0.3494

# 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.



46.9827, 0.2125, 0.2875



46.9827, 0.3962, 0.3103



46.9827, 0.2764, 0.3972

# Square

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



46.9827, 0.3962, 0.3103



46.9827, 0.3837, 0.4268



46.9827, 0.2338, 0.3412



46.9827, 0.2405, 0.2396



# Rectangle

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



46.9827, 0.3962, 0.3103



46.9827, 0.4245, 0.3832



46.9827, 0.2338, 0.3412



46.9827, 0.2116, 0.2616

# Sweetspot

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



46.9806, 0.3962, 0.3103



80.4888, 0.3308, 0.3237



47.8840, 0.3018, 0.2254



16.8148, 0.3331, 0.3231



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.



46.9806, 0.3962, 0.3103



40.2661, 0.4224, 0.3069



58.3810, 0.4005, 0.3631



18.0394, 0.3266, 0.3248



11.2230, 0.6138, 0.3155



1.1064, 0.5853, 0.2998



# Inverse Universe

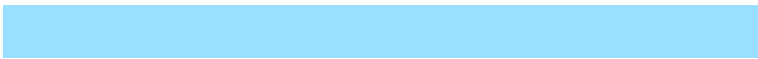
The Inverse Universe completely reimagines the original color for something new.



46.9806, 0.3962, 0.3103



40.2661, 0.4224, 0.3069



66.6054, 0.2516, 0.2914



18.0394, 0.3266, 0.3248



11.2230, 0.6138, 0.3155



1.1064, 0.5853, 0.2998



# Previews

## White Background



This preview shows how the Yxy color 46.9827, 0.3962, 0.3103 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

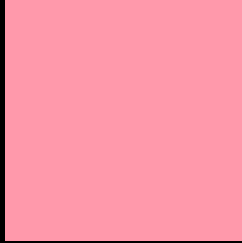
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.9827, 0.3962, 0.3103 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

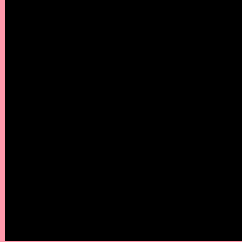
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.9827, 0.3962, 0.3103**

## Background



This preview shows how black text looks on a background with the Yxy color 46.9827, 0.3962, 0.3103.



This preview shows how white text looks on a background with the Yxy color 46.9827, 0.3962, 0.3103.

# 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

46.9827, 0.3962, 0.3103

### Protanopia

47.3580, 0.3113, 0.3226

### Deuteranopia

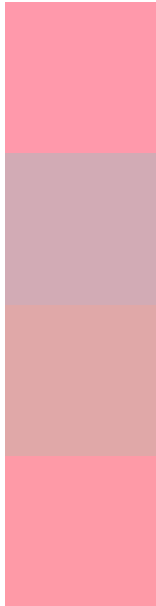
46.9625, 0.3475, 0.3403



## Tritanopia

46.8986, 0.4011, 0.3176

# Trichromacy



## Original Color

46.9827, 0.3962, 0.3103

## Protanomaly

46.1637, 0.3397, 0.3169

## Deuteranomaly

46.6797, 0.3653, 0.3292

## Tritanomaly

46.9721, 0.3990, 0.3155

# Monochromacy



## Original Color

46.9827, 0.3962, 0.3103

## Achromatopsia

49.1021, 0.3127, 0.3290

## Achromatomaly

47.4572, 0.3401, 0.3206

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.9827, 0.3962, 0.3103 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, 153, 171)` looks like.

```
.text, #text, p{  
    color:rgb(255, 153, 171)  
}
```

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, 153, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 153, 171) }
```

## Border

The CSS property to change the border of an element to Yxy 46.9827, 0.3962, 0.3103 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, 153, 171) }
```

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

```
.border{ border-color:rgb(255, 153, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 153, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 153, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 153, 171);  
box-shadow:4px 4px 4px 4px rgb(255, 153,  
171) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.9827, 0.3962, 0.3103 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 153, 171) }
```

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

```
.background{ background-color: rgb(255,  
153, 171) }
```

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