

# Converting Colors

$Y_{xy}(90.0910, 0.3964, 0.2845)$

Have a look what the booklet for  
Yxy(90.0910, 0.3964, 0.2845)  
contains.

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# Color

**Yxy(64.9890, 0.3193, 0.2699)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFBEFA
RGB	255, 190, 250
RGB Percent	100%, 75%, 98%
CMY	0.0003, 0.2547, 0.0197
CMYK	0.00, 0.25, 0.02, 0.00
HSL	305°, 100%, 87%
HSV	305°, 25%, 100%
XYZ	76.8840, 64.9890, 98.9162
YIQ	216.2750, 19.4800, 32.4400

# Conversions

## Conversions Part 2

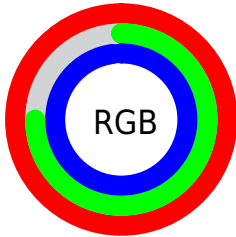
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 190, 250
Decimal	16760570
CIE <sub>Lab</sub>	84.48, 32.78, -20.46
CIE <sub>LCh</sub>	84, 38.643, 328.025
Yxy	64.9890, 0.3193, 0.2699
Android (android.graphics.Color)	4294950650 (0xFFFFBEFA)
YUV	216.2750, 16.6264, 33.9618
Hunter-Lab	80.6158, 29.1595, -16.3183

# Details

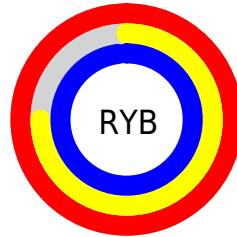
The Yxy color  $64.9890, 0.3193, 0.2699$  is a light color, and the websafe version is hex  $\text{FFCCFF}$ . A complement of this color would be  $86.3619, 0.3066, 0.3962$ , and the grayscale version is  $68.7402, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $95.0015, 0.3131, 0.3214$ , and  $33.4643, 0.3212, 0.2576$  is the 20% darker color. If you saturate the color by 10%, you get  $54.7736, 0.3223, 0.2468$ , and if you desaturate by 10%, it is  $77.1427, 0.3165, 0.2934$ .

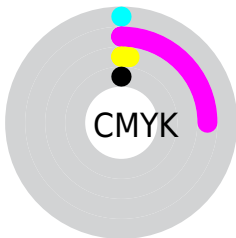
# Distribution



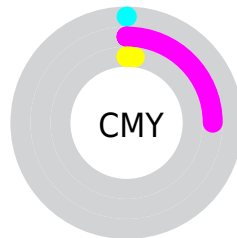
- Red (100%)
- Green (75%)
- Blue (98%)



- Red (100%)
- Yellow (75%)
- Blue (98%)



- Cyan (0%)
- Magenta (25%)
- Yellow (2%)
- Black (0%)




- Cyan (0%)
- Magenta (25%)
- Yellow (2%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.9890, 0.3193, 0.2699 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 64.9890, 0.3193, 0.2699 by changing the saturation by 10% instead.





 64.9890, 0.3193,  
0.2699

 64.9890, 0.3193,  
0.2699

442.7524, 0.3168,  
0.2964

 47.4522, 0.3198,  
0.2641


 112.0340, 0.3185,  
0.2789

 33.3932, 0.3202,  
0.2570


142.3110, 0.3182,  
0.2825

 22.4279, 0.3208,  
0.2482


177.6035, 0.3179,  
0.2855

 14.1716, 0.3213,  
0.2370

218.2959, 0.3176,  
0.2882

 8.2401, 0.3218,  
0.2222

264.7726, 0.3174,  
0.2906

 4.2490, 0.3220,  
0.2021


317.4180, 0.3172,


 1.8138, 0.3211,


0.2928


0.1732

376.6165, 0.3170,  
0.2947

 0.4957, 0.3207,  
0.1179

 0.0000, 0.2227,  
0.0000


 64.9890, 0.3193,  
0.2699

 64.9890, 0.3193,  
0.2699

 54.7736, 0.3223,  
0.2468

 77.1427, 0.3165,  
0.2934

 46.3873, 0.3255,  
0.2250

 91.3193, 0.3140,  
0.3167

 39.7234, 0.3287,  
0.2055

99.9850, 0.3127,  
0.3290

 34.6604, 0.3319,  
0.1893

■ 31.0614, 0.3350,  
0.1771

■ 28.7662, 0.3378,  
0.1694

■ 27.5769, 0.3404,  
0.1660

■ 27.2723, 0.3414,  
0.1655

# Harmonies

## Analogous

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



64.9890, 0.2727, 0.2537



64.9890, 0.3193, 0.2699



64.9890, 0.3674, 0.2992

# Triad

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



64.9890, 0.3193, 0.2699



64.9890, 0.3883, 0.4048



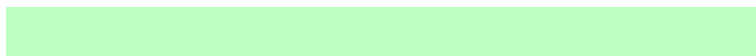
64.9890, 0.2314, 0.3114

# Complementary

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



64.9890, 0.3193, 0.2699



86.3619, 0.3066, 0.3962

# 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.



64.9890, 0.2582, 0.3594



64.9890, 0.3193, 0.2699



64.9890, 0.3483, 0.4167

# Square

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



64.9890, 0.3193, 0.2699



64.9890, 0.4086, 0.3743



64.9890, 0.3006, 0.4004



64.9890, 0.2250, 0.2737



# Rectangle

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



64.9890, 0.3193, 0.2699



64.9890, 0.3925, 0.3234



64.9890, 0.3006, 0.4004



64.9890, 0.2382, 0.3269

# Sweetspot

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



64.9919, 0.3193, 0.2699



87.5682, 0.3146, 0.3108



55.5792, 0.2715, 0.2567



18.2751, 0.3150, 0.3073



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.



64.9919, 0.3193, 0.2699



59.1293, 0.3209, 0.2570



63.1612, 0.3439, 0.3004



18.2751, 0.3150, 0.3073



14.2704, 0.3411, 0.1653



1.3963, 0.3385, 0.1638



# Inverse Universe

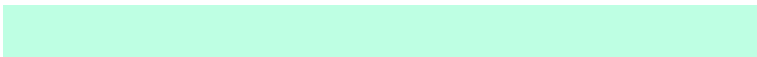
The Inverse Universe completely reimagines the original color for something new.



64.9919, 0.3193, 0.2699



59.1293, 0.3209, 0.2570



87.9579, 0.2896, 0.3597



18.2751, 0.3150, 0.3073



14.2704, 0.3411, 0.1653



1.3963, 0.3385, 0.1638



# Previews

## White Background



This preview shows how the Yxy color 64.9890, 0.3193, 0.2699 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

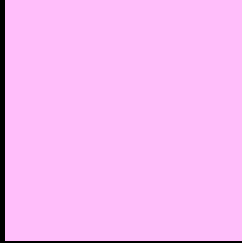
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.9890, 0.3193, 0.2699 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

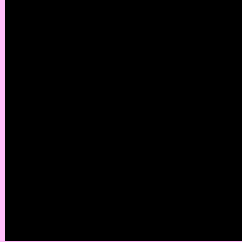
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 64.9890, 0.3193, 0.2699**

## Background



This preview shows how black text looks on a background with the Yxy color 64.9890, 0.3193, 0.2699.



This preview shows how white text looks on a background with the Yxy color 64.9890, 0.3193, 0.2699.

# 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

64.9890, 0.3193, 0.2699

### Protanopia

65.2384, 0.2776, 0.2789

### Deuteranopia

65.1542, 0.2910, 0.2848



## Tritanopia

65.0100, 0.3437, 0.3135

# Trichromacy



## Original Color

64.9890, 0.3193, 0.2699



## Protanomaly

64.7051, 0.2920, 0.2751



## Deuteranomaly

64.7439, 0.3010, 0.2787



## Tritanomaly

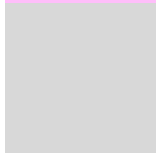
64.7700, 0.3348, 0.2964

# Monochromacy



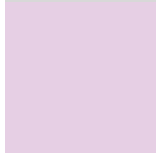
## Original Color

64.9890, 0.3193, 0.2699



## Achromatopsia

68.6685, 0.3127, 0.3290



## Achromatomaly

67.0501, 0.3153, 0.3066

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.9890, 0.3193, 0.2699 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, 190, 250)` looks like.

```
.text, #text, p{  
    color:rgb(255, 190, 250)  
}
```

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, 190, 250) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 190, 250) }
```

## Border

The CSS property to change the border of an element to Yxy 64.9890, 0.3193, 0.2699 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, 190, 250) }
```

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

```
.border{ border-color:rgb(255, 190, 250) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 190, 250)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 190, 250); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 190, 250);  
box-shadow:4px 4px 4px 4px rgb(255, 190,  
250) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.9890, 0.3193, 0.2699 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 190, 250) }
```

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

```
.background{ background-color: rgb(255,  
190, 250) }
```

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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