

# Converting Colors

$Y_{xy}(88.1182, 0.2376, 0.1683)$

Have a look what the booklet for  
Yxy(88.1182, 0.2376, 0.1683)  
contains.

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# Color

**Yxy(69.7886, 0.3152, 0.2752)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FFC8FF
RGB	255, 200, 255
RGB Percent	100%, 78%, 100%
CMY	0.0002, 0.2156, 0.0000
CMYK	0.00, 0.22, 0.00, 0.00
HSL	300°, 100%, 89%
HSV	300°, 22%, 100%
XYZ	79.9323, 69.7886, 103.8714
YIQ	222.7150, 15.1250, 28.7650

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 200, 255
Decimal	16763135
CIE Lab	86.89, 28.45, -19.48
CIE LCh	87, 34.479, 325.596
Yxy	69.7886, 0.3152, 0.2752
Android (android.graphics.Color)	4294953215 (0xFFFFC8FF)
YUV	222.7150, 15.9165, 28.3139
Hunter-Lab	83.5396, 24.5980, -15.2423

# Details

The Yxy color  $69.7886, 0.3152, 0.2752$  is a light color, and the websafe version is hex `FFCCFF`. A complement of this color would be  $87.9802, 0.3099, 0.3894$ , and the grayscale version is  $73.4557, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $36.6408, 0.3157, 0.2644$  is the 20% darker color. If you saturate the color by 10%, you get  $58.9424, 0.3164, 0.2503$ , and if you desaturate by 10%, it is  $82.6097, 0.3140, 0.3004$ .

# Distribution



- Red (100%)
- Green (78%)
- Blue (100%)



- Red (100%)
- Yellow (78%)
- Blue (100%)



- Cyan (0%)
- Magenta (22%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (22%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.7886, 0.3152, 0.2752 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 69.7886, 0.3152, 0.2752 by changing the saturation by 10% instead.




 69.7886, 0.3152,  
0.2752

 69.7886, 0.3152,  
0.2752


459.8074, 0.3145,  
0.2991

 51.3542, 0.3153,  
0.2700


118.9072, 0.3150,  
0.2833

 36.4906, 0.3153,  
0.2636


150.3603, 0.3150,  
0.2865

 24.8133, 0.3152,  
0.2557


186.9216, 0.3149,  
0.2893

 15.9380, 0.3151,  
0.2457

228.9757, 0.3148,  
0.2918

 9.4803, 0.3146,  
0.2326

276.9070, 0.3147,  
0.2939

 5.0558, 0.3136,  
0.2148


331.0997, 0.3146,


 2.2800, 0.3112,


0.2959

0.1892


391.9384, 0.3146,  
0.2976

 0.7631, 0.3055,  
0.1492


 0.0000, 0.2712,  
0.0000


 69.7886, 0.3152,  
0.2752

 69.7886, 0.3152,  
0.2752

 58.9424, 0.3164,  
0.2503


 82.6097, 0.3140,  
0.3004

 49.9659, 0.3174,  
0.2266

 97.4889, 0.3129,  
0.3252

 42.7556, 0.3184,  
0.2050

100.0000, 0.3127,  
0.3290

 37.1952, 0.3193,  
0.1867

■ 33.1541, 0.3199,  
0.1722

■ 30.4822, 0.3204,  
0.1621

■ 28.9990, 0.3206,  
0.1563

■ 28.4398, 0.3207,  
0.1540

# Harmonies

## Analogous

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



69.7886, 0.2749, 0.2620



69.7886, 0.3152, 0.2752



69.7886, 0.3574, 0.3005

# Triad

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



69.7886, 0.3152, 0.2752



69.7886, 0.3812, 0.3940



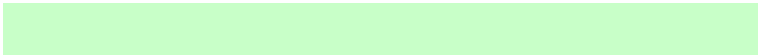
69.7886, 0.2425, 0.3174

# Complementary

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



69.7886, 0.3152, 0.2752



87.9802, 0.3099, 0.3894

# 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.



69.7886, 0.2677, 0.3588



69.7886, 0.3152, 0.2752



69.7886, 0.3475, 0.4051

# Square

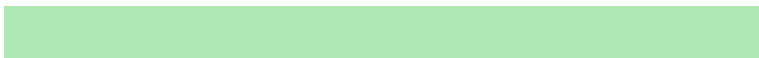
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



69.7886, 0.3152, 0.2752



69.7886, 0.3967, 0.3669



69.7886, 0.3059, 0.3926



69.7886, 0.2352, 0.2831



# Rectangle

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



69.7886, 0.3152, 0.2752



69.7886, 0.3799, 0.3218



69.7886, 0.3059, 0.3926



69.7886, 0.2491, 0.3310

# Sweetspot

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



69.7911, 0.3152, 0.2752



90.6213, 0.3134, 0.3143



61.2482, 0.2763, 0.2697



19.1880, 0.3135, 0.3127



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.



69.7911, 0.3152, 0.2752



64.7358, 0.3157, 0.2641



68.2050, 0.3346, 0.3004



18.2996, 0.3138, 0.3056



14.8608, 0.3207, 0.1540



1.4472, 0.3207, 0.1541



# Inverse Universe

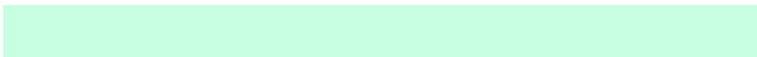
The Inverse Universe completely reimagines the original color for something new.



66.7532, 0.3566, 0.3291



61.1897, 0.3686, 0.3291



89.3265, 0.2954, 0.3595



17.9873, 0.3294, 0.3290



11.1092, 0.6400, 0.3299



1.0817, 0.6398, 0.3298



# Previews

## White Background



This preview shows how the Yxy color 69.7886, 0.3152, 0.2752 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

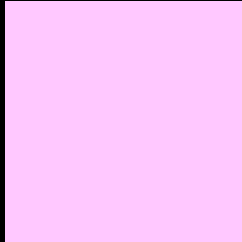
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.7886, 0.3152, 0.2752 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 69.7886, 0.3152, 0.2752**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.7886, 0.3152, 0.2752.



This preview shows how white text looks on a background with the Yxy color 69.7886, 0.3152, 0.2752.

# 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

69.7886, 0.3152, 0.2752

### Protanopia

69.8870, 0.2832, 0.2873

### Deuteranopia

70.2099, 0.2930, 0.2871



## Tritanopia

69.7405, 0.3348, 0.3127

# Trichromacy



## Original Color

69.7886, 0.3152, 0.2752



## Protanomaly

69.4819, 0.2944, 0.2823



## Deuteranomaly

69.7599, 0.3006, 0.2819



## Tritanomaly

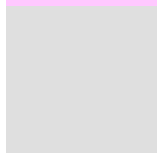
69.8217, 0.3277, 0.2988

# Monochromacy



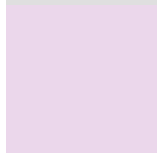
## Original Color

69.7886, 0.3152, 0.2752



## Achromatopsia

73.7910, 0.3127, 0.3290



## Achromatomaly

72.2612, 0.3137, 0.3082

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.7886, 0.3152, 0.2752 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, 200, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 200, 255)  
}
```

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, 200, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 200, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 69.7886, 0.3152, 0.2752 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, 200, 255) }
```

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

```
.border{ border-color:rgb(255, 200, 255) }
```

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

Here you see how a box with a 4 pixel rgb(255, 200, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 200, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 200, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 200,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.7886, 0.3152, 0.2752 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 200, 255) }
```

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

```
.background{ background-color: rgb(255,  
200, 255) }
```

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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