

# Converting Colors

$Y_{xy}(75.5265, 0.2370, 0.1929)$

Have a look what the booklet for  
Yxy(75.5265, 0.2370, 0.1929)  
contains.

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# Color

**Yxy(66.4122, 0.2915, 0.2765)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DECDFE
RGB	222, 205, 255
RGB Percent	87%, 80%, 100%
CMY	0.1293, 0.1961, 0.0000
CMYK	0.13, 0.20, 0.00, 0.00
HSL	260°, 100%, 90%
HSV	260°, 20%, 100%
XYZ	70.0150, 66.4122, 103.7616
YIQ	215.7830, -5.9180, 19.1540

# Conversions

## Conversions Part 2

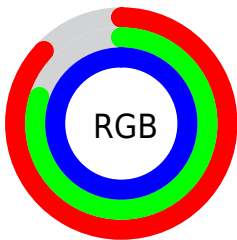
Format	Color
R <sub>Y</sub> B	222, 205, 255
Decimal	14601727
CIE Lab	85.21, 15.33, -22.32
CIE LCh	85, 27.079, 304.485
Yxy	66.4122, 0.2915, 0.2765
Android (android.graphics.Color)	4292791807 (0xFFDECDFF)
YUV	215.7830, 19.3340, 5.4523
Hunter-Lab	81.4937, 10.7438, -18.4452

# Details

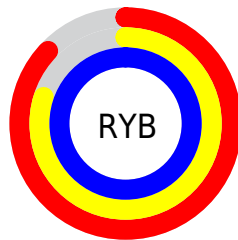
The Yxy color  $66.4122, 0.2915, 0.2765$  is a light color, and the websafe version is hex `CCCCFF`. A complement of this color would be  $94.0985, 0.3311, 0.3799$ , and the grayscale version is  $68.3850, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $34.4259, 0.2867, 0.2654$  is the 20% darker color. If you saturate the color by 10%, you get  $52.6675, 0.2783, 0.2463$ , and if you desaturate by 10%, it is  $82.4112, 0.3031, 0.3045$ .

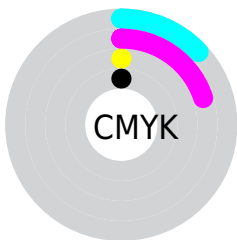
# Distribution



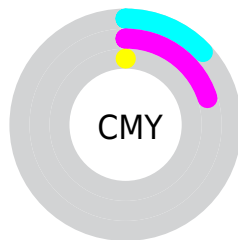
- Red (87%)
- Green (80%)
- Blue (100%)



- Red (87%)
- Yellow (80%)
- Blue (100%)



- Cyan (13%)
- Magenta (20%)
- Yellow (0%)
- Black (0%)



- Cyan (13%)
- Magenta (20%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 66.4122, 0.2915, 0.2765 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 66.4122, 0.2915, 0.2765 by changing the saturation by 10% instead.



66.4122, 0.2915,  
0.2765

66.4122, 0.2915,  
0.2765

447.8496, 0.3017,  
0.3003

48.6071, 0.2891,  
0.2712

114.0777, 0.2951,  
0.2847

34.3079, 0.2861,  
0.2647

144.7070, 0.2965,  
0.2879

23.1302, 0.2823,  
0.2566

180.3797, 0.2976,  
0.2906

14.6897, 0.2772,  
0.2462

221.4803, 0.2987,  
0.2931

8.6019, 0.2701,  
0.2324

268.3932, 0.2996,  
0.2952

4.4824, 0.2598,  
0.2132

321.5028, 0.3003,

1.9469, 0.2434,

0.2971

0.1853

381.1935, 0.3010,  
0.2988

■ 0.5764, 0.2161,  
0.1347

■ 0.0000, 0.0000,  
0.0000

■ 66.4122, 0.2915,  
0.2765

■ 66.4122, 0.2915,  
0.2765

■ 52.6675, 0.2783,  
0.2463

■ 82.4112, 0.3031,  
0.3045

■ 41.0710, 0.2636,  
0.2146

100.0000, 0.3127,  
0.3290

■ 31.5111, 0.2476,  
0.1825

■ 23.8651, 0.2309,  
0.1515

■ 17.9968, 0.2143,  
0.1236

■ 13.7508, 0.1988,  
0.1005

■ 10.9438, 0.1852,  
0.0838

■ 9.2929, 0.1741,  
0.0734

■ 9.2397, 0.1737,  
0.0731

# Harmonies

## Analogous

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



66.4122, 0.2649, 0.2747



66.4122, 0.2915, 0.2765



66.4122, 0.3253, 0.2906

# Triad

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



66.4122, 0.2915, 0.2765



66.4122, 0.3781, 0.3675



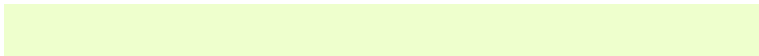
66.4122, 0.2693, 0.3432

# Complementary

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



66.4122, 0.2915, 0.2765



94.0985, 0.3311, 0.3799

# 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.



66.4122, 0.2979, 0.3725



66.4122, 0.2915, 0.2765



66.4122, 0.3611, 0.3855

# Square

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



66.4122, 0.2915, 0.2765



66.4122, 0.3767, 0.3413



66.4122, 0.3314, 0.3882



66.4122, 0.2526, 0.3112



# Rectangle

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



66.4122, 0.2915, 0.2765



66.4122, 0.3473, 0.3052



66.4122, 0.3314, 0.3882



66.4122, 0.2778, 0.3539

# Sweetspot

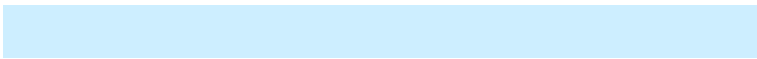
The Sweet Spot groups the original color and five complimentary colors.



66.4130, 0.2915, 0.2765



88.7603, 0.3069, 0.3140



81.5400, 0.2822, 0.3114



18.7476, 0.3062, 0.3123



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.



66.4130, 0.2915, 0.2765



60.1084, 0.2859, 0.2635



70.5924, 0.3090, 0.2792



17.6784, 0.3032, 0.3048



4.9015, 0.1753, 0.0739



0.5347, 0.1875, 0.0807



# Inverse Universe

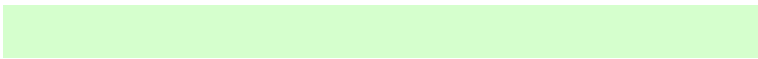
The Inverse Universe completely reimagines the original color for something new.



71.0901, 0.3270, 0.2962



65.7039, 0.3309, 0.2885



90.1225, 0.3153, 0.3824



18.1890, 0.3191, 0.3134



12.6178, 0.4305, 0.2145



1.2490, 0.4148, 0.2058



# Previews

## White Background



This preview shows how the Yxy color 66.4122, 0.2915, 0.2765 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

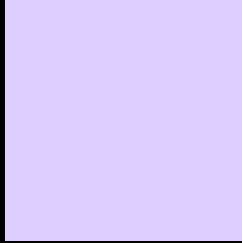
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 66.4122, 0.2915, 0.2765 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

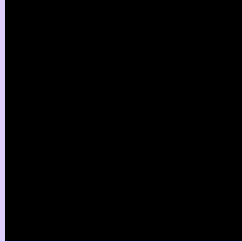
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 66.4122, 0.2915, 0.2765**

## **Background**



This preview shows how black text looks on a background with the Yxy color 66.4122, 0.2915, 0.2765.

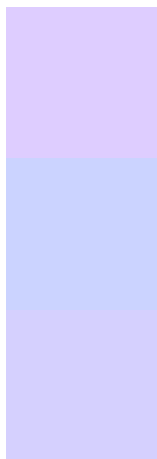


This preview shows how white text looks on a background with the Yxy color 66.4122, 0.2915, 0.2765.

# 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

66.4122, 0.2915, 0.2765

### Protanopia

66.5050, 0.2790, 0.2813

### Deuteranopia

66.4136, 0.2861, 0.2799



## Tritanopia

66.3910, 0.3063, 0.3103

# Trichromacy



## Original Color

66.4122, 0.2915, 0.2765

## Protanomaly

66.5226, 0.2835, 0.2797

## Deuteranomaly

66.3803, 0.2881, 0.2791

## Tritanomaly

66.2862, 0.3011, 0.2976

# Monochromacy



## Original Color

66.4122, 0.2915, 0.2765

## Achromatopsia

68.6685, 0.3127, 0.3290

## Achromatomaly

67.7056, 0.3049, 0.3094

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 66.4122, 0.2915, 0.2765 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(222, 205, 255)` looks like.

```
.text, #text, p{  
    color:rgb(222, 205, 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(222, 205, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 205, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 66.4122, 0.2915, 0.2765 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(222, 205, 255) }
```

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

```
.border{ border-color:rgb(222, 205, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 205, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(222, 205, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(222, 205, 255); box-shadow:4px 4px 4px 4px rgb(222, 205, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 66.4122, 0.2915, 0.2765 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 205, 255) }
```

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

```
.background{ background-color: rgb(222,  
205, 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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