

# Converting Colors

$Y_{xy}(77.2733, 0.2204, 0.1713)$

Have a look what the booklet for  
Yxy(77.2733, 0.2204, 0.1713)  
contains.

<b>Yxy(64.0780, 0.2852, 0.2734)</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(64.0780, 0.2852, 0.2734)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D5CBFF
RGB	213, 203, 255
RGB Percent	84%, 80%, 100%
CMY	0.1647, 0.2039, 0.0000
CMYK	0.16, 0.20, 0.00, 0.00
HSL	252°, 100%, 90%
HSV	252°, 20%, 100%
XYZ	66.8436, 64.0780, 103.4529
YIQ	211.9180, -10.7320, 18.2920

# Conversions

## Conversions Part 2

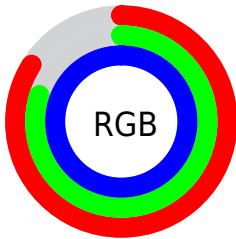
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	213, 203, 255
Decimal	14011391
CIE <sub>Lab</sub>	84.01, 13.58, -24.19
CIE <sub>LCh</sub>	84, 27.744, 299.306
Y <sub>xy</sub>	64.0780, 0.2852, 0.2734
Android (android.graphics.Color)	4292201471 (0xFFD5CBFF)
YUV	211.9180, 21.2394, 0.9489
Hunter-Lab	80.0487, 8.9687, -20.5908

# Details

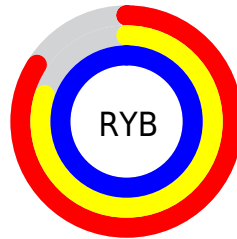
The Yxy color **64.0780, 0.2852, 0.2734** is a light color, and the websafe version is hex **CCCCFF**. A complement of this color would be **95.2482, 0.3369, 0.3811**, and the grayscale version is **65.6433, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **32.8412, 0.2785, 0.2611** is the 20% darker color. If you saturate the color by 10%, you get **50.1224, 0.2689, 0.2419**, and if you desaturate by 10%, it is **80.4110, 0.2997, 0.3022**.

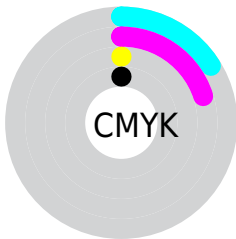
# Distribution



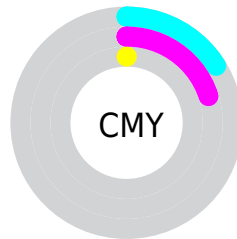
- Red (84%)
- Green (80%)
- Blue (100%)



- Red (84%)
- Yellow (80%)
- Blue (100%)



- Cyan (16%)
- Magenta (20%)
- Yellow (0%)
- Black (0%)



- Cyan (16%)
- Magenta (20%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.0780, 0.2852, 0.2734 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 64.0780, 0.2852, 0.2734 by changing the saturation by 10% instead.



64.0780, 0.2852,  
0.2734

64.0780, 0.2852,  
0.2734

439.4713, 0.2984,  
0.2988

46.7139, 0.2821,  
0.2677

110.7233, 0.2898,  
0.2821

32.8095, 0.2783,  
0.2607

140.7732, 0.2916,  
0.2855

21.9806, 0.2733,  
0.2520

175.8204, 0.2931,  
0.2885

13.8426, 0.2668,  
0.2408

216.2495, 0.2945,  
0.2911

8.0113, 0.2578,  
0.2258

262.4447, 0.2956,  
0.2934

4.1022, 0.2447,  
0.2051

314.7905, 0.2966,

1.7309, 0.2240,

0.2954

0.1747

373.6712, 0.2975,  
0.2972

0.4435, 0.1908,  
0.1124

0.0000, 0.0000,  
0.0000

64.0780, 0.2852,  
0.2734

64.0780, 0.2852,  
0.2734

50.1224, 0.2689,  
0.2419

80.4110, 0.2997,  
0.3022

38.4250, 0.2510,  
0.2085

99.2177, 0.3123,  
0.3281

28.8682, 0.2320,  
0.1745

100.0000, 0.3127,  
0.3290

21.3200, 0.2128,  
0.1418

■ 15.6342, 0.1946,  
0.1126

■ 11.6436, 0.1787,  
0.0891

■ 9.1507, 0.1663,  
0.0731

■ 7.8717, 0.1579,  
0.0644

# Harmonies

## Analogous

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



64.0780, 0.2597, 0.2738



64.0780, 0.2852, 0.2734



64.0780, 0.3195, 0.2860

# Triad

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



64.0780, 0.2852, 0.2734



64.0780, 0.3817, 0.3645



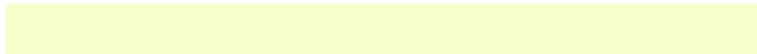
64.0780, 0.2721, 0.3495

# Complementary

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



64.0780, 0.2852, 0.2734



95.2482, 0.3369, 0.3811

# 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.



64.0780, 0.3031, 0.3783



64.0780, 0.2852, 0.2734



64.0780, 0.3670, 0.3852

# Square

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



64.0780, 0.2852, 0.2734



64.0780, 0.3769, 0.3366



64.0780, 0.3379, 0.3914



64.0780, 0.2524, 0.3158



# Rectangle

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



64.0780, 0.2852, 0.2734



64.0780, 0.3429, 0.3001



64.0780, 0.3379, 0.3914



64.0780, 0.2815, 0.3603

# Sweetspot

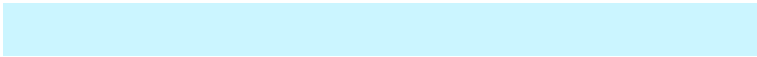
The Sweet Spot groups the original color and five complimentary colors.



64.0806, 0.2852, 0.2734



88.3538, 0.3054, 0.3139



85.5063, 0.2815, 0.3189



18.6518, 0.3046, 0.3122



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.



64.0806, 0.2852, 0.2734



58.7718, 0.2795, 0.2623



68.2061, 0.3032, 0.2763



17.5455, 0.3009, 0.3046



4.1606, 0.1590, 0.0650



0.4472, 0.1687, 0.0703



# Inverse Universe

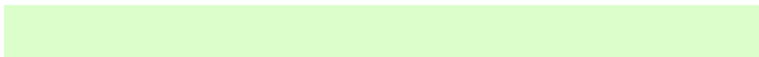
The Inverse Universe completely reimagines the original color for something new.



70.5698, 0.3221, 0.2874



66.2409, 0.3241, 0.2799



90.9657, 0.3203, 0.3839



18.2371, 0.3168, 0.3100



13.4598, 0.3765, 0.1848



1.3252, 0.3690, 0.1806



# Previews

## White Background



This preview shows how the Yxy color 64.0780, 0.2852, 0.2734 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

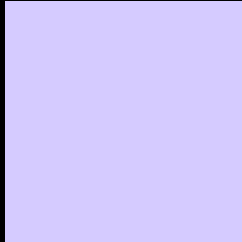
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.0780, 0.2852, 0.2734 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

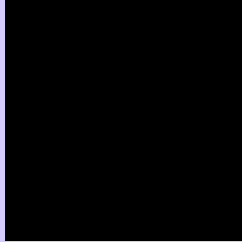
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 64.0780, 0.2852, 0.2734**

## Background



This preview shows how black text looks on a background with the Yxy color 64.0780, 0.2852, 0.2734.

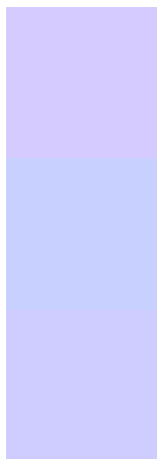


This preview shows how white text looks on a background with the Yxy color 64.0780, 0.2852, 0.2734.

# 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

64.0780, 0.2852, 0.2734

### Protanopia

64.4739, 0.2762, 0.2775

### Deuteranopia

64.1480, 0.2812, 0.2750



## Tritanopia

63.9579, 0.3011, 0.3098

# Trichromacy



**Original Color**

64.0780, 0.2852, 0.2734

**Protanomaly**

64.2000, 0.2793, 0.2758

**Deuteranomaly**

63.9610, 0.2825, 0.2741

**Tritanomaly**

63.9004, 0.2953, 0.2958

# Monochromacy



**Original Color**

64.0780, 0.2852, 0.2734

**Achromatopsia**

65.8375, 0.3127, 0.3290

**Achromatomaly**

65.1994, 0.3020, 0.3079

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.0780, 0.2852, 0.2734 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(213, 203, 255)` looks like.

```
.text, #text, p{  
    color:rgb(213, 203, 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(213, 203, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(213, 203, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 64.0780, 0.2852, 0.2734 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(213, 203, 255) }
```

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

```
.border{ border-color:rgb(213, 203, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(213, 203, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(213, 203, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(213, 203, 255);  
box-shadow:4px 4px 4px 4px rgb(213, 203,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.0780, 0.2852, 0.2734 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(213, 203, 255) }
```

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

```
.background{ background-color: rgb(213,  
203, 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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