

# Converting Colors

$Y_{xy}(73.2208, 0.2484, 0.2330)$

Have a look what the booklet for  
Yxy(73.2208, 0.2484, 0.2330)  
contains.

<b>Yxy(68.8883, 0.2787, 0.2868)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(68.8883, 0.2787, 0.2868)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CAD8FF
RGB	202, 216, 255
RGB Percent	79%, 85%, 100%
CMY	0.2082, 0.1528, 0.0000
CMYK	0.21, 0.15, 0.00, 0.00
HSL	224°, 100%, 90%
HSV	224°, 21%, 100%
XYZ	66.9427, 68.8883, 104.3653
YIQ	216.2600, -20.8630, 9.1610

# Conversions

## Conversions Part 2

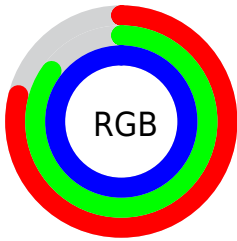
Format	Color
R <sub>Y</sub> B	202, 213, 255
Decimal	13293823
CIE Lab	86.45, 3.27, -20.56
CIE LCh	86, 20.818, 279.044
Yxy	68.8883, 0.2787, 0.2868
Android (android.graphics.Color)	4291483903 (0xFFCAD8FF)
YUV	216.2600, 19.0988, -12.5060
Hunter-Lab	82.9990, -1.2793, -16.4537

# Details

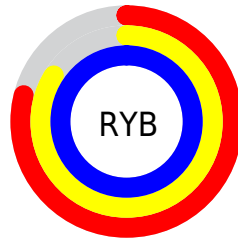
The Yxy color **68.8883, 0.2787, 0.2868** is a light color, and the websafe version is hex **CCCCFF**. A complement of this color would be **88.3497, 0.3469, 0.3679**, and the grayscale version is **68.7261, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **35.7700, 0.2706, 0.2768** is the 20% darker color. If you saturate the color by 10%, you get **56.5738, 0.2606, 0.2629**, and if you desaturate by 10%, it is **82.8882, 0.2957, 0.3084**.

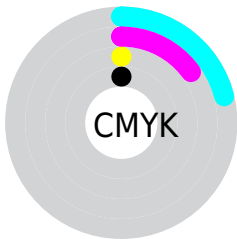
# Distribution



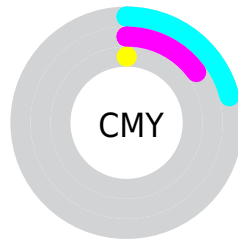
- Red (79%)
- Green (85%)
- Blue (100%)



- Red (79%)
- Yellow (84%)
- Blue (100%)



- Cyan (21%)
- Magenta (15%)
- Yellow (0%)
- Black (0%)



- Cyan (21%)
- Magenta (15%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.8883, 0.2787, 0.2868 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 68.8883, 0.2787, 0.2868 by changing the saturation by 10% instead.



■ 68.8883, 0.2787,  
0.2868

■ 68.8883, 0.2787,  
0.2868

456.6369, 0.2945,  
0.3062

■ 50.6207, 0.2751,  
0.2824

117.6220, 0.2842,  
0.2935

■ 35.9069, 0.2706,  
0.2770

148.8570, 0.2863,  
0.2961

■ 24.3623, 0.2650,  
0.2702

185.1832, 0.2882,  
0.2984

■ 15.6026, 0.2577,  
0.2615

226.9851, 0.2897,  
0.3003

■ 9.2434, 0.2477,  
0.2497

274.6470, 0.2912,  
0.3021

■ 4.9003, 0.2336,  
0.2331

328.5533, 0.2924,

■ 2.1889, 0.2121,

0.3036

0.2082

389.0885, 0.2935,  
0.3050

0.7139, 0.1762,  
0.1658

0.0000, 0.0000,  
0.0000

68.8883, 0.2787,  
0.2868

68.8883, 0.2787,  
0.2868

56.5738, 0.2606,  
0.2629

82.8882, 0.2957,  
0.3084

45.8709, 0.2418,  
0.2368

98.6268, 0.3115,  
0.3275

36.7127, 0.2230,  
0.2092

99.9992, 0.3127,  
0.3290

29.0241, 0.2048,  
0.1810

■ 22.7231, 0.1885,  
0.1534

■ 17.7189, 0.1747,  
0.1278

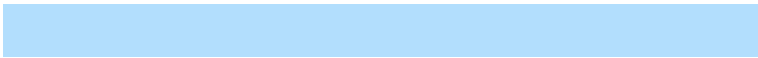
■ 13.9076, 0.1645,  
0.1056

■ 11.3340, 0.1581,  
0.0891

# Harmonies

## Analogous

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



68.8883, 0.2662, 0.2948



68.8883, 0.2787, 0.2868



68.8883, 0.3005, 0.2895

# Triad

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



68.8883, 0.2787, 0.2868



68.8883, 0.3623, 0.3422



68.8883, 0.2979, 0.3588

# Complementary

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



68.8883, 0.2787, 0.2868



88.3497, 0.3469, 0.3679

# 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.



68.8883, 0.3234, 0.3725



68.8883, 0.2787, 0.2868



68.8883, 0.3612, 0.3614

# Square

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



68.8883, 0.2787, 0.2868



68.8883, 0.3493, 0.3206



68.8883, 0.3467, 0.3730



68.8883, 0.2770, 0.3362



# Rectangle

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



68.8883, 0.2787, 0.2868



68.8883, 0.3177, 0.2968



68.8883, 0.3467, 0.3730



68.8883, 0.3062, 0.3646

# Sweetspot

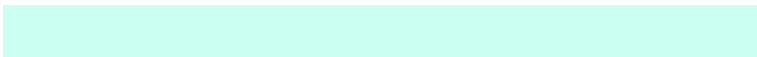
The Sweet Spot groups the original color and five complimentary colors.



68.8911, 0.2787, 0.2868



90.2561, 0.3035, 0.3179



90.3976, 0.2889, 0.3439



19.0998, 0.3025, 0.3166



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.



68.8911, 0.2787, 0.2868



63.5433, 0.2712, 0.2771



63.7587, 0.2861, 0.2724



18.1636, 0.2979, 0.3110



6.1299, 0.1588, 0.0918



0.7670, 0.1647, 0.1130



# Inverse Universe

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



68.4162, 0.3438, 0.3147



63.1952, 0.3518, 0.3116



94.7568, 0.3360, 0.3825



18.0664, 0.3252, 0.3227



11.3468, 0.5884, 0.3015



1.1220, 0.5567, 0.2840



# Previews

## White Background



This preview shows how the Yxy color 68.8883, 0.2787, 0.2868 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

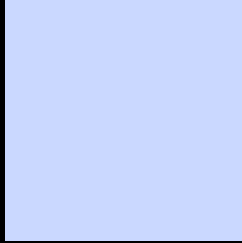
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.8883, 0.2787, 0.2868 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

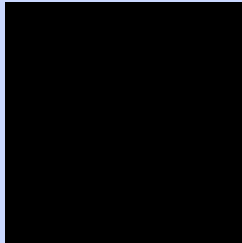
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 68.8883, 0.2787, 0.2868**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.8883, 0.2787, 0.2868.



This preview shows how white text looks on a background with the Yxy color 68.8883, 0.2787, 0.2868.

# 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

68.8883, 0.2787, 0.2868

### Protanopia

68.6588, 0.2831, 0.2860

### Deuteranopia

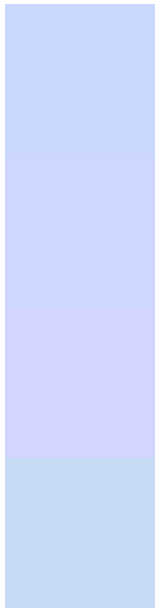
68.7140, 0.2890, 0.2826



## Tritanopia

68.7832, 0.2869, 0.3088

# Trichromacy



## Original Color

68.8883, 0.2787, 0.2868

## Protanomaly

68.8784, 0.2818, 0.2870

## Deuteranomaly

68.8055, 0.2850, 0.2843

## Tritanomaly

68.8166, 0.2834, 0.3002

# Monochromacy



## Original Color

68.8883, 0.2787, 0.2868

## Achromatopsia

68.6685, 0.3127, 0.3290

## Achromatomaly

68.6738, 0.3000, 0.3135

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.8883, 0.2787, 0.2868 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(202, 216, 255)` looks like.

```
.text, #text, p{  
    color:rgb(202, 216, 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(202, 216, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 216, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 68.8883, 0.2787, 0.2868 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(202, 216, 255) }
```

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

```
.border{ border-color:rgb(202, 216, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 216, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 216, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 216, 255);  
box-shadow:4px 4px 4px 4px rgb(202, 216,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.8883, 0.2787, 0.2868 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 216, 255) }
```

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

```
.background{ background-color: rgb(202,  
216, 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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