

# Converting Colors

$Y_{xy}(68.4003, 0.3014, 0.2781)$

Have a look what the booklet for  
Yxy(68.4003, 0.3014, 0.2781)  
contains.

<b>Yxy(68.6513, 0.3020, 0.2790)</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(68.6513, 0.3020, 0.2790)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ECCDFE
RGB	236, 205, 254
RGB Percent	93%, 80%, 100%
CMY	0.0745, 0.1960, 0.0039
CMYK	0.07, 0.19, 0.00, 0.00
HSL	278°, 96%, 90%
HSV	278°, 19%, 100%
XYZ	74.3107, 68.6513, 103.1000
YIQ	219.8550, 2.7470, 21.8110

# Conversions

## Conversions Part 2

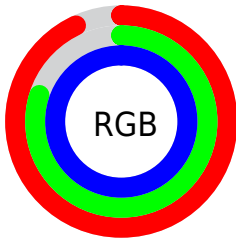
Format	Color
RYB	236, 205, 254
Decimal	15519230
CIELab	86.33, 19.54, -19.96
CIELCh	86, 27.931, 314.382
Yxy	68.6513, 0.3020, 0.2790
Android (android.graphics.Color)	4293709310 (0xFFECCDFE)
YUV	219.8550, 16.8335, 14.1592
Hunter-Lab	82.8561, 15.0923, -15.7768

# Details

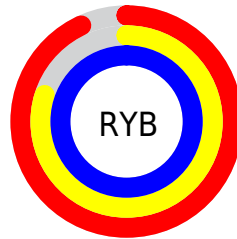
The Yxy color **68.6513, 0.3020, 0.2790** is a light color, and the websafe version is hex **FFCCFF**. A complement of this color would be **90.9827, 0.3215, 0.3804**, and the grayscale version is **71.3443, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **35.8677, 0.2994, 0.2687** is the 20% darker color. If you saturate the color by 10%, you get **55.9157, 0.2950, 0.2511**, and if you desaturate by 10%, it is **83.4488, 0.3080, 0.3057**.

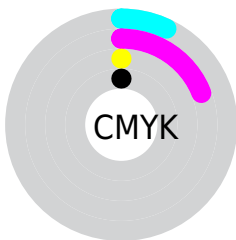
# Distribution



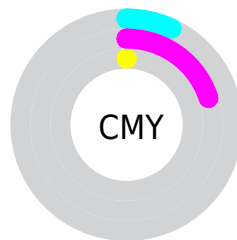
- Red (93%)
- Green (80%)
- Blue (100%)



- Red (93%)
- Yellow (80%)
- Blue (100%)



- Cyan (7%)
- Magenta (19%)
- Yellow (0%)
- Black (0%)




- Cyan (7%)
- Magenta (20%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.6513, 0.3020, 0.2790 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 68.6513, 0.3020, 0.2790 by changing the saturation by 10% instead.



 68.6513, 0.3020,  
0.2790

 68.6513, 0.3020,  
0.2790


455.8002, 0.3073,  
0.3015

 50.4278, 0.3007,  
0.2740


117.2834, 0.3039,  
0.2867

 35.7534, 0.2991,  
0.2679


148.4607, 0.3046,  
0.2897

 24.2438, 0.2970,  
0.2604


184.7248, 0.3052,  
0.2923

 15.5146, 0.2942,  
0.2507

226.4601, 0.3058,  
0.2946

 9.1813, 0.2902,  
0.2379

274.0508, 0.3062,  
0.2966

 4.8596, 0.2842,  
0.2203

327.8815, 0.3066,

 2.1651, 0.2743,

0.2984

0.1947

388.3365, 0.3070,  
0.3000

0.7009, 0.2566,  
0.1523

0.0000, 0.0870,  
0.0000

68.6513, 0.3020,  
0.2790

68.6513, 0.3020,  
0.2790

55.9157, 0.2950,  
0.2511

83.4488, 0.3080,  
0.3057

45.1369, 0.2870,  
0.2226

99.8724, 0.3131,  
0.3300

36.2138, 0.2781,  
0.1947

99.9358, 0.3133,  
0.3300

29.0321, 0.2685,  
0.1686

■ 23.4649, 0.2585,  
0.1455

■ 19.3673, 0.2484,  
0.1267

■ 16.5672, 0.2386,  
0.1129

■ 14.8042, 0.2295,  
0.1040

■ 14.6959, 0.2288,  
0.1034

# Harmonies

## Analogous

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



68.6513, 0.2717, 0.2727



68.6513, 0.3020, 0.2790



68.6513, 0.3369, 0.2968

# Triad

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



68.6513, 0.3020, 0.2790



68.6513, 0.3755, 0.3755



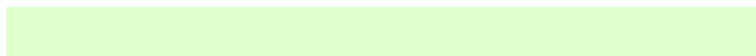
68.6513, 0.2613, 0.3324

# Complementary

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



68.6513, 0.3020, 0.2790



90.9827, 0.3215, 0.3804

# 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.



68.6513, 0.2870, 0.3646



68.6513, 0.3020, 0.2790



68.6513, 0.3530, 0.3895

# Square

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



68.6513, 0.3020, 0.2790



68.6513, 0.3807, 0.3507



68.6513, 0.3204, 0.3862



68.6513, 0.2492, 0.3013



# Rectangle

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



68.6513, 0.3020, 0.2790



68.6513, 0.3578, 0.3133



68.6513, 0.3204, 0.3862



68.6513, 0.2685, 0.3436

# Sweetspot

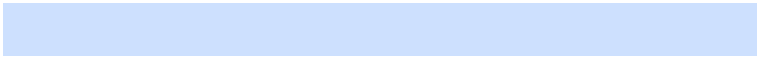
The Sweet Spot groups the original color and five complimentary colors.



68.6542, 0.3020, 0.2790



89.5727, 0.3098, 0.3141



73.3339, 0.2818, 0.2966



18.9396, 0.3094, 0.3125



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.



68.6542, 0.3020, 0.2790



64.2563, 0.2995, 0.2687



71.5326, 0.3189, 0.2863



17.9471, 0.3079, 0.3051



7.8344, 0.2303, 0.1042



0.8249, 0.2405, 0.1099



# Inverse Universe

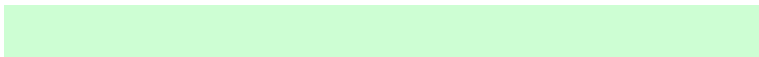
The Inverse Universe completely reimagines the original color for something new.



70.0661, 0.3373, 0.3108



65.9550, 0.3432, 0.3071



88.5538, 0.3070, 0.3758



18.0975, 0.3236, 0.3203



11.5547, 0.5515, 0.2812



1.1452, 0.5203, 0.2640



# Previews

## White Background



This preview shows how the Yxy color 68.6513, 0.3020, 0.2790 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

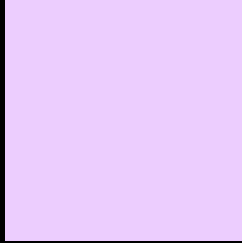
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.6513, 0.3020, 0.2790 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

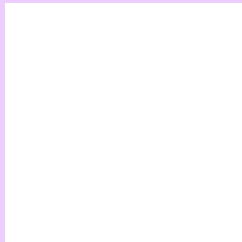
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 68.6513, 0.3020, 0.2790**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.6513, 0.3020, 0.2790.



This preview shows how white text looks on a background with the Yxy color 68.6513, 0.3020, 0.2790.

# 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

68.6513, 0.3020, 0.2790

### Protanopia

68.7230, 0.2825, 0.2850

### Deuteranopia

68.7404, 0.2909, 0.2847



## Tritanopia

68.7400, 0.3180, 0.3120

# Trichromacy



## Original Color

68.6513, 0.3020, 0.2790

## Protanomaly

68.7140, 0.2890, 0.2826

## Deuteranomaly

68.7003, 0.2949, 0.2831

## Tritanomaly

68.4915, 0.3119, 0.2996

# Monochromacy



## Original Color

68.6513, 0.3020, 0.2790

## Achromatopsia

71.5694, 0.3127, 0.3290

## Achromatomaly

70.5958, 0.3093, 0.3109

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.6513, 0.3020, 0.2790 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(236, 205, 254)` looks like.

```
.text, #text, p{  
    color:rgb(236, 205, 254)  
}
```

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(236, 205, 254) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 205, 254) }
```

## Border

The CSS property to change the border of an element to Yxy 68.6513, 0.3020, 0.2790 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(236, 205, 254) }
```

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

```
.border{ border-color:rgb(236, 205, 254) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 205, 254)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 205, 254); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 205, 254);  
box-shadow:4px 4px 4px 4px rgb(236, 205,  
254) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.6513, 0.3020, 0.2790 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 205, 254) }
```

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

```
.background{ background-color: rgb(236,  
205, 254) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor