

# Converting Colors

$Y_{xy}(100.0000, 0.2302, 0.2052)$

Have a look what the booklet for  
Yxy(100.0000, 0.2302, 0.2052)  
contains.

<b>Yxy(87.2935, 0.2920, 0.3177)</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(87.2935, 0.2920, 0.3177)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DDF4FF
RGB	221, 244, 255
RGB Percent	87%, 96%, 100%
CMY	0.1331, 0.0432, 0.0000
CMYK	0.13, 0.04, 0.00, 0.00
HSL	199°, 100%, 93%
HSV	199°, 13%, 100%
XYZ	80.2320, 87.2935, 107.2416
YIQ	238.3770, -17.2390, -1.4550

# Conversions

## Conversions Part 2

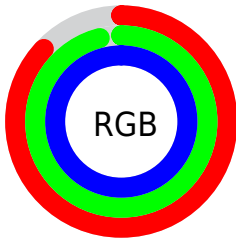
Format	Color
R <sub>Y</sub> B	221, 235, 255
Decimal	14546175
CIE Lab	94.86, -5.32, -7.85
CIE LCh	95, 9.478, 235.890
Yxy	87.2935, 0.2920, 0.3177
Android (android.graphics.Color)	4292736255 (0xFFDDDF4FF)
YUV	238.3770, 8.1951, -15.2396
Hunter-Lab	93.4310, -10.2209, -2.6523

# Details

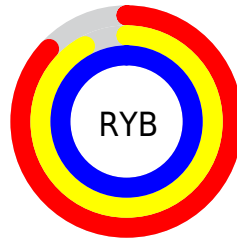
The Yxy color **87.2935, 0.2920, 0.3177** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **84.2286, 0.3358, 0.3400**, and the grayscale version is **85.7597, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **48.1506, 0.2880, 0.3158** is the 20% darker color. If you saturate the color by 10%, you get **78.7269, 0.2765, 0.3082**, and if you desaturate by 10%, it is **96.6963, 0.3076, 0.3263**.

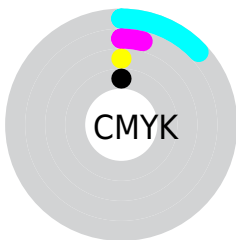
# Distribution



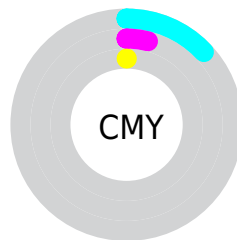
- Red (87%)
- Green (96%)
- Blue (100%)



- Red (87%)
- Yellow (92%)
- Blue (100%)



- Cyan (13%)
- Magenta (4%)
- Yellow (0%)
- Black (0%)



- Cyan (13%)
- Magenta (4%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 87.2935, 0.2920, 0.3177 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 87.2935, 0.2920, 0.3177 by changing the saturation by 10% instead.



87.2935, 0.2920,  
0.3177

87.2935, 0.2920,  
0.3177

519.1868, 0.3012,  
0.3228

65.7381, 0.2900,  
0.3166

143.5732, 0.2951,  
0.3195

48.0598, 0.2875,  
0.3152

179.0662, 0.2964,  
0.3201

33.8743, 0.2845,  
0.3134

219.9740, 0.2974,  
0.3207

22.7970, 0.2805,  
0.3111

266.6808, 0.2984,  
0.3213

14.4437, 0.2754,  
0.3081

319.5711, 0.2992,  
0.3217

8.4299, 0.2683,  
0.3039

379.0293, 0.3000,

4.3713, 0.2579,

0.3221

0.2975

445.4397, 0.3006,  
0.3225

■ 1.8833, 0.2413,  
0.2869

■ 0.5383, 0.1849,  
0.2607

■ 87.2935, 0.2920,  
0.3177

■ 87.2935, 0.2920,  
0.3177

■ 78.7269, 0.2765,  
0.3082

■ 96.6963, 0.3076,  
0.3263

■ 70.9588, 0.2612,  
0.2979

100.0000, 0.3127,  
0.3290

■ 63.9593, 0.2467,  
0.2868

■ 57.6933, 0.2333,  
0.2750

■ 52.1226, 0.2213,  
0.2628

■ 47.2044, 0.2111,  
0.2502

■ 42.8895, 0.2029,  
0.2377

■ 39.1188, 0.1968,  
0.2253

■ 36.8459, 0.1937,  
0.2171

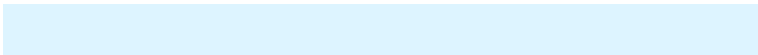
# Harmonies

## Analogous

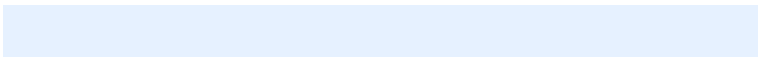
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



87.2935, 0.2941, 0.3266



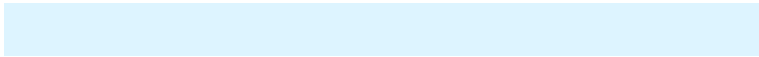
87.2935, 0.2920, 0.3177



87.2935, 0.2953, 0.3120

# Triad

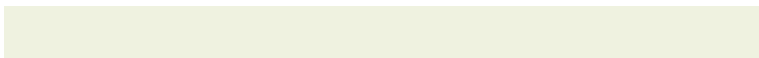
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



87.2935, 0.2920, 0.3177



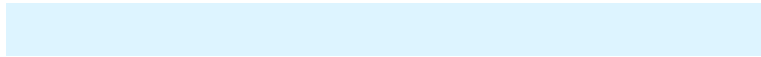
87.2935, 0.3243, 0.3217



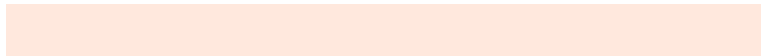
87.2935, 0.3220, 0.3478

# Complementary

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



87.2935, 0.2920, 0.3177



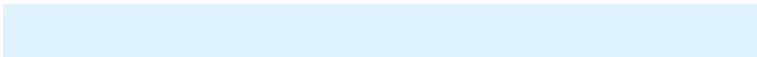
84.2286, 0.3358, 0.3400

# Split Complementary

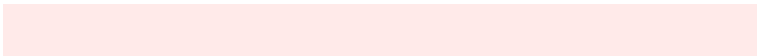
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



87.2935, 0.3303, 0.3461



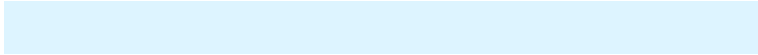
87.2935, 0.2920, 0.3177



87.2935, 0.3317, 0.3309

# Square

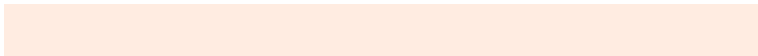
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



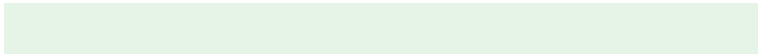
87.2935, 0.2920, 0.3177



87.2935, 0.3138, 0.3144



87.2935, 0.3339, 0.3398

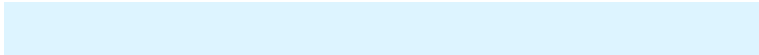


87.2935, 0.3113, 0.3442



# Rectangle

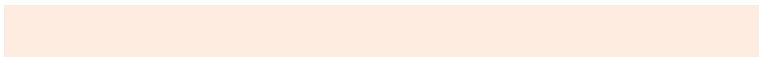
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



87.2935, 0.2920, 0.3177



87.2935, 0.3002, 0.3107



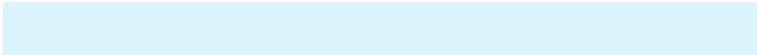
87.2935, 0.3339, 0.3398



87.2935, 0.3252, 0.3478

# Sweetspot

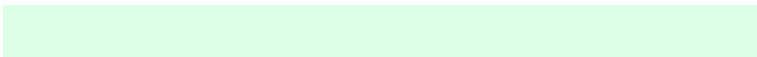
The Sweet Spot groups the original color and five complimentary colors.



87.2960, 0.2920, 0.3177



96.0245, 0.3065, 0.3258



92.7146, 0.3050, 0.3529



20.3964, 0.3054, 0.3252



0.0000, 0.0000, 0.0000

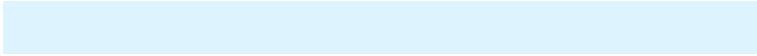


21.4041, 0.3127, 0.3290

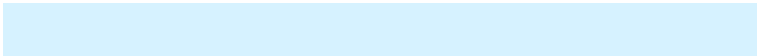


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



87.2960, 0.2920, 0.3177



84.9141, 0.2878, 0.3153



77.6875, 0.2915, 0.3003



19.4301, 0.2980, 0.3211



19.5358, 0.1942, 0.2192



2.1008, 0.1981, 0.2332



# Inverse Universe

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



79.5298, 0.3215, 0.3065



75.8515, 0.3236, 0.3018



94.0958, 0.3335, 0.3562



18.1943, 0.3188, 0.3131



12.7001, 0.4241, 0.2110

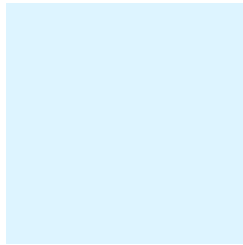


1.2566, 0.4093, 0.2029



# Previews

## White Background



This preview shows how the Yxy color 87.2935, 0.2920, 0.3177 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

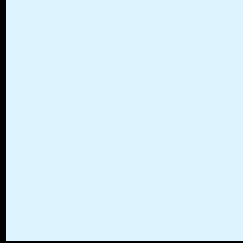
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 87.2935, 0.2920, 0.3177 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

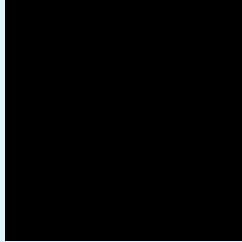
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

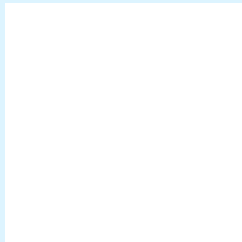
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 87.2935, 0.2920, 0.3177**

## **Background**



This preview shows how black text looks on a background with the Yxy color 87.2935, 0.2920, 0.3177.



This preview shows how white text looks on a background with the Yxy color 87.2935, 0.2920, 0.3177.

# 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

87.2935, 0.2920, 0.3177

### Protanopia

86.8781, 0.3062, 0.3151

### Deuteranopia

86.9483, 0.3123, 0.3087



## Tritanopia

87.2182, 0.2962, 0.3158

# Trichromacy



**Original Color**

87.2935, 0.2920, 0.3177

**Protanomaly**

86.9045, 0.3011, 0.3159

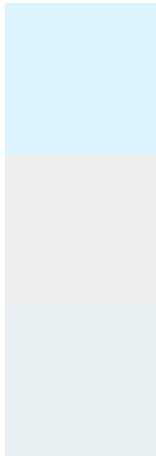
**Deuteranomaly**

87.0698, 0.3044, 0.3122

**Tritanomaly**

87.3287, 0.2944, 0.3168

# Monochromacy



**Original Color**

87.2935, 0.2920, 0.3177

**Achromatopsia**

85.4993, 0.3127, 0.3290

**Achromatomaly**

86.0076, 0.3051, 0.3249

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 87.2935, 0.2920, 0.3177 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(221, 244, 255)` looks like.

```
.text, #text, p{  
    color:rgb(221, 244, 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(221, 244, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 244, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 87.2935, 0.2920, 0.3177 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(221, 244, 255) }
```

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

```
.border{ border-color:rgb(221, 244, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 244, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 244, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 244, 255);  
box-shadow:4px 4px 4px 4px rgb(221, 244,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 87.2935, 0.2920, 0.3177 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 244, 255) }
```

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

```
.background{ background-color: rgb(221,  
244, 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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