

# Converting Colors

Yxy(87.5568, 0.3040, 0.3428)

Have a look what the booklet for  
Yxy(87.5568, 0.3040, 0.3428)  
contains.

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# Color

**Yxy(87.7769, 0.3045, 0.3436)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DDF7E9
RGB	221, 247, 233
RGB Percent	87%, 97%, 91%
CMY	0.1332, 0.0314, 0.0865
CMYK	0.11, 0.00, 0.06, 0.03
HSL	148°, 62%, 92%
HSV	148°, 11%, 97%
XYZ	77.7883, 87.7769, 89.8972
YIQ	237.6300, -11.0020, -9.8660

# Conversions

## Conversions Part 2

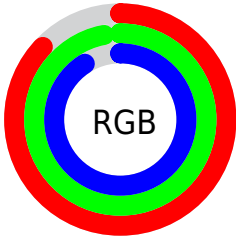
Format	Color
R <sub>YB</sub>	221, 239, 247
Decimal	14546921
CIE <sub>Lab</sub>	95.07, -11.04, 3.87
CIE <sub>LCh</sub>	95, 11.701, 160.690
Y <sub>xy</sub>	87.7769, 0.3045, 0.3436
Android (android.graphics.Color)	4292737001 (0xFFDDDF7E9)
YUV	237.6300, -2.2826, -14.5845
Hunter-Lab	93.6893, -15.7514, 8.6923

# Details

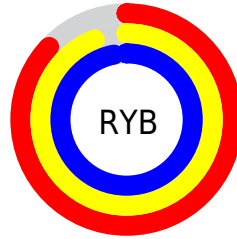
The Yxy color **87.7769, 0.3045, 0.3436** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **77.5060, 0.3218, 0.3148**, and the grayscale version is **85.2271, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **48.5429, 0.3030, 0.3478** is the 20% darker color. If you saturate the color by 10%, you get **83.4490, 0.2969, 0.3592**, and if you desaturate by 10%, it is **92.7405, 0.3123, 0.3297**.

# Distribution



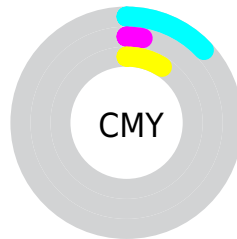
- Red (87%)
- Green (97%)
- Blue (91%)



- Red (87%)
- Yellow (94%)
- Blue (97%)



- Cyan (11%)
- Magenta (0%)
- Yellow (6%)
- Black (3%)




- Cyan (13%)
- Magenta (3%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 87.7769, 0.3045, 0.3436 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 87.7769, 0.3045, 0.3436 by changing the saturation by 10% instead.



 87.7769, 0.3045,  
0.3436

 87.7769, 0.3045,  
0.3436


520.7724, 0.3082,  
0.3370

 66.1383, 0.3037,  
0.3451

144.2465, 0.3058,  
0.3413

 48.3847, 0.3027,  
0.3469


179.8463, 0.3063,  
0.3404

 34.1316, 0.3014,  
0.3492


220.8687, 0.3067,  
0.3397

 22.9947, 0.2997,  
0.3521

267.6980, 0.3071,  
0.3390

 14.5896, 0.2975,  
0.3560

320.7186, 0.3074,  
0.3384

 8.5319, 0.2945,  
0.3615

380.3149, 0.3077,

 4.4371, 0.2898,

0.3379

446.8714, 0.3080,  
0.3374

0.3699

■ 1.9210, 0.2820,  
0.3841

■ 0.5609, 0.2263,  
0.4816

■ 87.7769, 0.3045,  
0.3436

■ 87.7769, 0.3045,  
0.3436

■ 83.4490, 0.2969,  
0.3592


■ 92.7405, 0.3123,  
0.3297


■ 79.7195, 0.2898,  
0.3764


■ 95.0033, 0.3131,  
0.3214


■ 76.5642, 0.2834,  
0.3952

■ 73.9529, 0.2781,  
0.4154

 71.8524, 0.2742,  
0.4364

 70.2259, 0.2721,  
0.4579

 69.0313, 0.2720,  
0.4792

 68.2186, 0.2738,  
0.4995

 67.7244, 0.2771,  
0.5174

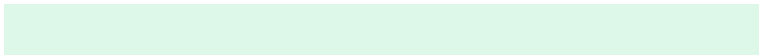
# Harmonies

## Analogous

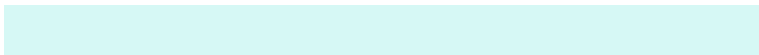
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



87.7769, 0.3178, 0.3509



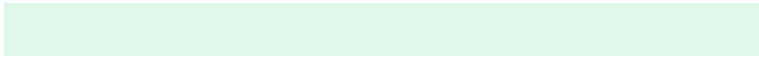
87.7769, 0.3045, 0.3436



87.7769, 0.2936, 0.3322

# Triad

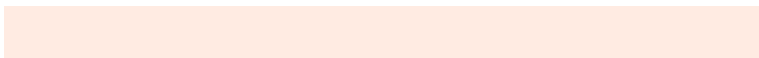
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



87.7769, 0.3045, 0.3436



87.7769, 0.2955, 0.3067



87.7769, 0.3384, 0.3369

# Complementary

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



87.7769, 0.3045, 0.3436



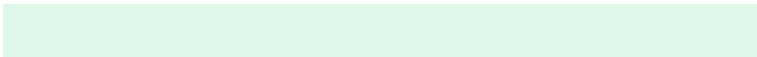
77.5060, 0.3218, 0.3148

# 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.



87.7769, 0.3321, 0.3254



87.7769, 0.3045, 0.3436



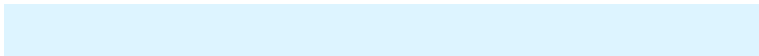
87.7769, 0.3072, 0.3083

# Square

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



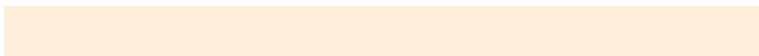
87.7769, 0.3045, 0.3436



87.7769, 0.2884, 0.3110



87.7769, 0.3207, 0.3151

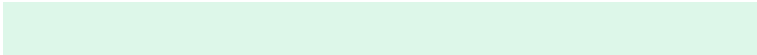


87.7769, 0.3375, 0.3466

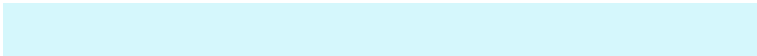


# Rectangle

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



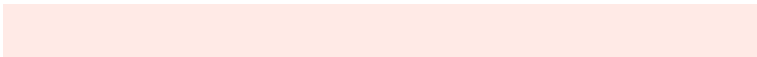
87.7769, 0.3045, 0.3436



87.7769, 0.2890, 0.3241



87.7769, 0.3207, 0.3151



87.7769, 0.3370, 0.3331

# Sweetspot

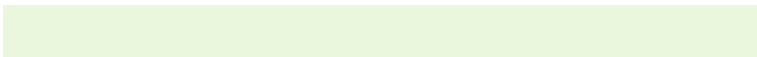
The Sweet Spot groups the original color and five complimentary colors.



87.7806, 0.3045, 0.3436



98.3142, 0.3104, 0.3330



89.4611, 0.3207, 0.3556



20.9491, 0.3097, 0.3341



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

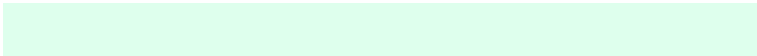


# Same Dimension

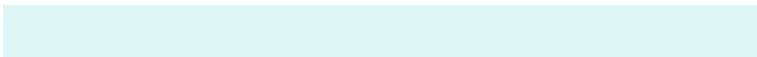
The Same Dimension uses a secret algorithm to generate beautiful new colors.



87.7806, 0.3045, 0.3436



93.1443, 0.3026, 0.3474



88.5358, 0.2972, 0.3303



18.5986, 0.3053, 0.3421



35.8442, 0.2762, 0.5144



3.1709, 0.2695, 0.4904



# Inverse Universe

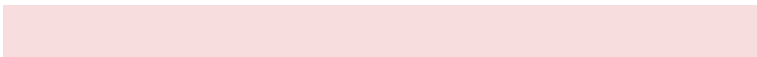
The Inverse Universe completely reimagines the original color for something new.



77.5060, 0.3218, 0.3148



79.7012, 0.3243, 0.3113



76.7948, 0.3305, 0.3277



16.6325, 0.3209, 0.3163



11.3915, 0.4787, 0.2411

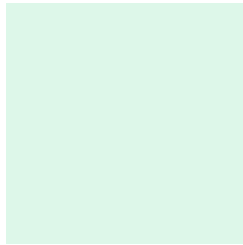


1.0219, 0.4535, 0.2272



# Previews

## White Background



This preview shows how the Yxy color 87.7769, 0.3045, 0.3436 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

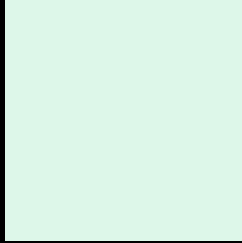
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 87.7769, 0.3045, 0.3436 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

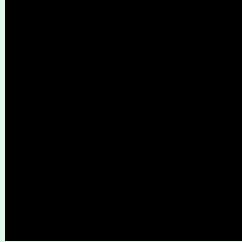
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

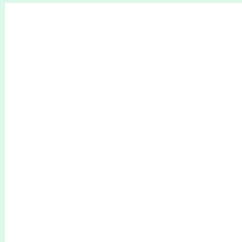
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 87.7769, 0.3045, 0.3436**

## **Background**



This preview shows how black text looks on a background with the Yxy color 87.7769, 0.3045, 0.3436.

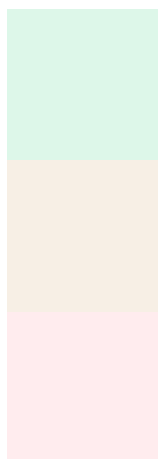


This preview shows how white text looks on a background with the Yxy color 87.7769, 0.3045, 0.3436.

# 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

87.7769, 0.3045, 0.3436

### Protanopia

87.1643, 0.3243, 0.3390

### Deuteranopia

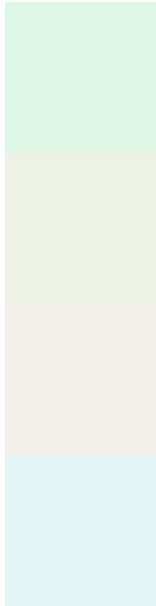
87.4240, 0.3243, 0.3271



## Tritanopia

87.7132, 0.2981, 0.3159

# Trichromacy



## Original Color

87.7769, 0.3045, 0.3436

## Protanomaly

87.3946, 0.3174, 0.3412

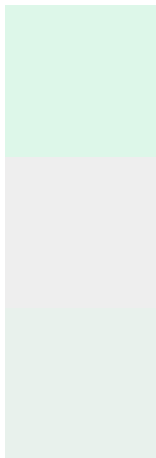
## Deuteranomaly

87.4310, 0.3171, 0.3330

## Tritanomaly

87.7477, 0.3002, 0.3259

# Monochromacy



## Original Color

87.7769, 0.3045, 0.3436

## Achromatopsia

85.4993, 0.3127, 0.3290

## Achromatomaly

86.1225, 0.3099, 0.3341

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 87.7769, 0.3045, 0.3436 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, 247, 233)` looks like.

```
.text, #text, p{  
    color:rgb(221, 247, 233)  
}
```

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, 247, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 247, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 87.7769, 0.3045, 0.3436 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, 247, 233) }
```

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

```
.border{ border-color:rgb(221, 247, 233) }
```

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

Here you see how a box with a 4 pixel rgb(221, 247, 233) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 247, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 247, 233);  
box-shadow:4px 4px 4px 4px rgb(221, 247,  
233) }
```



# Background

The CSS property to change the background color of an element to Yxy 87.7769, 0.3045, 0.3436 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 247, 233) }
```

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

```
.background{ background-color: rgb(221,  
247, 233) }
```

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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