

# Converting Colors

$Yxy(80.2817, 0.2730, 0.3126)$

Have a look what the booklet for  
Yxy(80.2817, 0.2730, 0.3126)  
contains.

<b>Yxy(80.3590, 0.2732, 0.3127)</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(80.3590, 0.2732, 0.3127)**

# Conversions

## Conversions Part 1

Format	Color
Hex	<code>BDF0FF</code>
RGB	189, 240, 255
RGB Percent	74%, 94%, 100%
CMY	0.2586, 0.0589, 0.0000
CMYK	0.26, 0.06, 0.00, 0.00
HSL	194°, 100%, 87%
HSV	194°, 26%, 100%
XYZ	70.2081, 80.3590, 106.4172
YIQ	226.4610, -35.2110, -6.1470

# Conversions

## Conversions Part 2

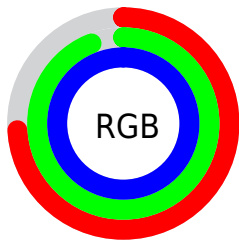
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	189, 218, 255
Decimal	12447999
CIE Lab	91.85, -12.87, -12.54
CIE LCh	92, 17.969, 224.247
Yxy	80.3590, 0.2732, 0.3127
Android (android.graphics.Color)	4290638079 (0xFFBDF0FF)
YUV	226.4610, 14.0697, -32.8533
Hunter-Lab	89.6432, -17.0752, -7.6341

# Details

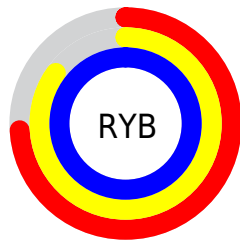
The Yxy color  $80.3590, 0.2732, 0.3127$  is a light color, and the websafe version is hex `CCFFFF`. A complement of this color would be  $68.1595, 0.3643, 0.3447$ , and the grayscale version is  $76.3302, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $98.3328, 0.3072, 0.3290$ , and  $43.4265, 0.2646, 0.3092$  is the 20% darker color. If you saturate the color by 10%, you get  $74.0181, 0.2589, 0.3054$ , and if you desaturate by 10%, it is  $87.3891, 0.2882, 0.3195$ .

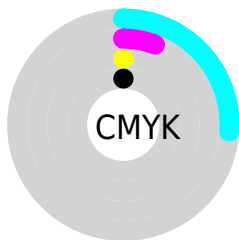
# Distribution



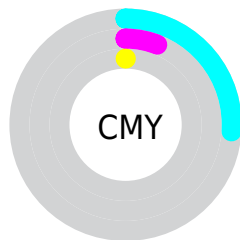
- Red (74%)
- Green (94%)
- Blue (100%)



- Red (74%)
- Yellow (85%)
- Blue (100%)



- Cyan (26%)
- Magenta (6%)
- Yellow (0%)
- Black (0%)




- Cyan (26%)
- Magenta (6%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.3590, 0.2732, 0.3127 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 80.3590, 0.2732, 0.3127 by changing the saturation by 10% instead.



 80.3590, 0.2732,  
0.3127

 80.3590, 0.2732,  
0.3127


496.1419, 0.2909,  
0.3204

 60.0138, 0.2693,  
0.3109

 133.8704, 0.2792,  
0.3154

 43.4298, 0.2645,  
0.3087

167.8053, 0.2816,  
0.3164

 30.2225, 0.2586,  
0.3059


207.0390, 0.2837,  
0.3173

 20.0075, 0.2510,  
0.3023

251.9558, 0.2855,  
0.3181

 12.4005, 0.2410,  
0.2973

302.9400, 0.2871,  
0.3188

 7.0171, 0.2272,  
0.2900

360.3762, 0.2885,

 3.4728, 0.2070,

0.3194

0.2787

424.6487, 0.2898,  
0.3199

■ 1.3832, 0.1752,  
0.2590

■ 0.2043, 0.0000,  
0.1560

■ 80.3590, 0.2732,  
0.3127

■ 80.3590, 0.2732,  
0.3127

■ 74.0181, 0.2589,  
0.3054

■ 87.3891, 0.2882,  
0.3195

■ 68.3256, 0.2457,  
0.2977

■ 95.1274, 0.3036,  
0.3257

■ 63.2510, 0.2338,  
0.2895

100.0000, 0.3127,  
0.3290

■ 58.7571, 0.2237,  
0.2812

■ 54.8017, 0.2154,  
0.2726

■ 51.3359, 0.2091,  
0.2641

■ 48.2990, 0.2048,  
0.2557

■ 47.1298, 0.2034,  
0.2523

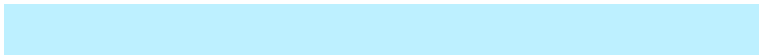
# Harmonies

## Analogous

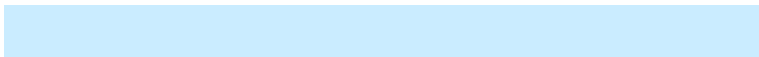
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



80.3590, 0.2810, 0.3316



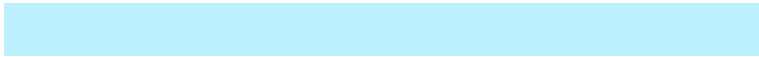
80.3590, 0.2732, 0.3127



80.3590, 0.2755, 0.2992

# Triad

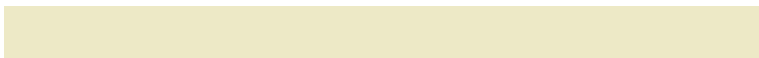
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



80.3590, 0.2732, 0.3127



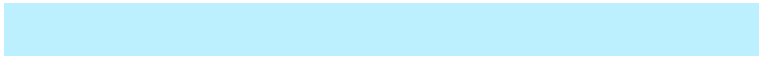
80.3590, 0.3276, 0.3089



80.3590, 0.3378, 0.3657

# Complementary

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



80.3590, 0.2732, 0.3127



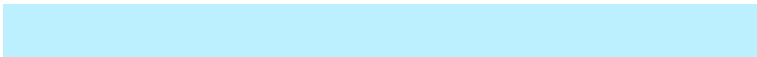
68.1595, 0.3643, 0.3447

# 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.



80.3590, 0.3511, 0.3580



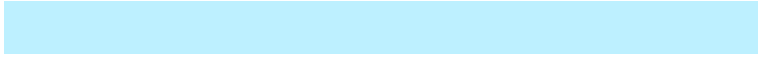
80.3590, 0.2732, 0.3127



80.3590, 0.3452, 0.3253

# Square

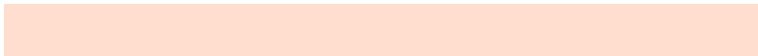
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



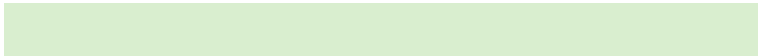
80.3590, 0.2732, 0.3127



80.3590, 0.3064, 0.2976



80.3590, 0.3539, 0.3431

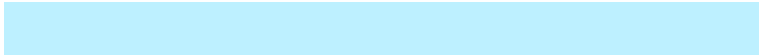


80.3590, 0.3180, 0.3632

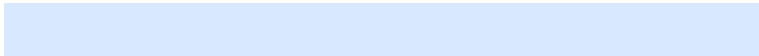


# Rectangle

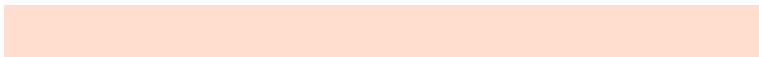
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



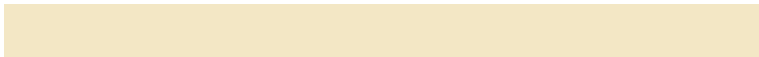
80.3590, 0.2732, 0.3127



80.3590, 0.2825, 0.2947



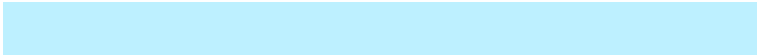
80.3590, 0.3539, 0.3431



80.3590, 0.3432, 0.3642

# Sweetspot

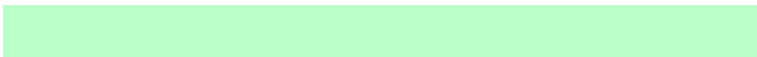
The Sweet Spot groups the original color and five complimentary colors.



80.3622, 0.2732, 0.3127



93.4068, 0.3003, 0.3244



86.6762, 0.3015, 0.3867



19.7388, 0.2980, 0.3235



0.0000, 0.0000, 0.0000

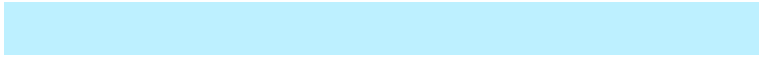


21.4041, 0.3127, 0.3290

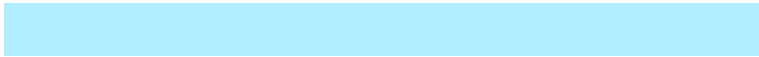


# Same Dimension

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



80.3622, 0.2732, 0.3127



77.0153, 0.2657, 0.3090



63.0368, 0.2698, 0.2763



19.7388, 0.2980, 0.3235



24.8623, 0.2038, 0.2536



2.5839, 0.2065, 0.2632



# Inverse Universe

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



63.9751, 0.3269, 0.2782



58.4058, 0.3304, 0.2679



85.1120, 0.3563, 0.3766



18.2254, 0.3173, 0.3108



13.2378, 0.3886, 0.1914

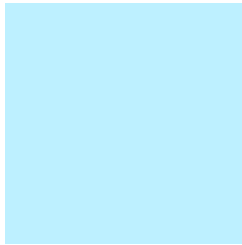


1.3054, 0.3793, 0.1863



# Previews

## White Background



This preview shows how the Yxy color 80.3590, 0.2732, 0.3127 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

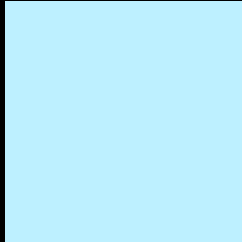
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 80.3590, 0.2732, 0.3127 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 80.3590, 0.2732, 0.3127**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.3590, 0.2732, 0.3127.

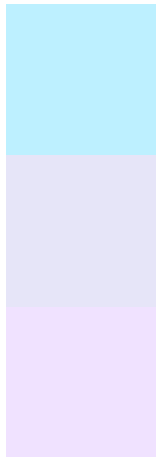


This preview shows how white text looks on a background with the Yxy color 80.3590, 0.2732, 0.3127.

# 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

80.3590, 0.2732, 0.3127

### Protanopia

79.6389, 0.3015, 0.3095

### Deuteranopia

80.1380, 0.3039, 0.3000



## Tritanopia

80.1048, 0.2769, 0.3107

# Trichromacy



## Original Color

80.3590, 0.2732, 0.3127

## Protanomaly

79.6899, 0.2902, 0.3101

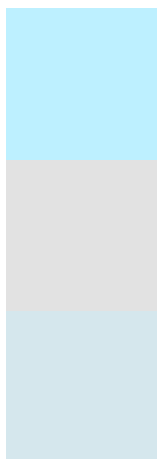
## Deuteranomaly

79.7440, 0.2916, 0.3042

## Tritanomaly

80.2905, 0.2753, 0.3117

# Monochromacy



## Original Color

80.3590, 0.2732, 0.3127

## Achromatopsia

76.0525, 0.3127, 0.3290

## Achromatomaly

77.4124, 0.2971, 0.3225

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 80.3590, 0.2732, 0.3127 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(189, 240, 255)` looks like.

```
.text, #text, p{  
    color:rgb(189, 240, 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(189, 240, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 240, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 80.3590, 0.2732, 0.3127 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(189, 240, 255) }
```

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

```
.border{ border-color:rgb(189, 240, 255) }
```

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

Here you see how a box with a 4 pixel rgb(189, 240, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 240, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 240, 255);  
box-shadow:4px 4px 4px 4px rgb(189, 240,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.3590, 0.2732, 0.3127 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 240, 255) }
```

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

```
.background{ background-color: rgb(189,  
240, 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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