

# Converting Colors

$Y_{xy}(100.0000, 0.2780, 0.2920)$

Have a look what the booklet for  
Yxy(100.0000, 0.2780, 0.2920)  
contains.

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# **Color**

**Yxy(96.0636, 0.2993, 0.3290)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | E9FFFF                      |
| RGB         | 233, 255, 255               |
| RGB Percent | 91%, 100%, 100%             |
| CMY         | 0.0866, 0.0000, 0.0001      |
| CMYK        | 0.09, 0.00, 0.00, 0.00      |
| HSL         | 180°, 100%, 96%             |
| HSV         | 180°, 9%, 100%              |
| XYZ         | 87.3916, 96.0636, 108.5314  |
| YIQ         | 248.4220, -13.1120, -4.6640 |

# Conversions

## Conversions Part 2

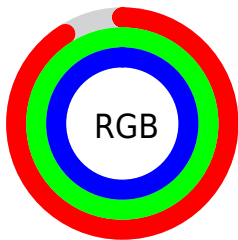
| <b>Format</b>                       | <b>Color</b>                  |
|-------------------------------------|-------------------------------|
| R <sub>Y</sub> B                    | 233, 244, 255                 |
| Decimal                             | 15335423                      |
| CIE Lab                             | 98.46, -7.15, -2.44           |
| CIE LCh                             | 98, 7.559, 198.865            |
| Yxy                                 | 96.0636, 0.2993,<br>0.3290    |
| Android<br>(android.graphics.Color) | 4293525503<br>(0xFFE9FFFF)    |
| YUV                                 | 248.4220, 3.2430,<br>-13.5251 |
| Hunter-Lab                          | 98.0120, -12.3631,<br>2.9550  |

# Details

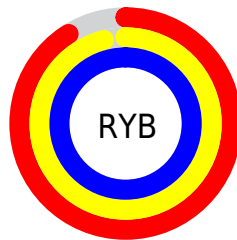
The Yxy color 96.0636, 0.2993, 0.3290 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 85.3696, 0.3278, 0.3290, and the grayscale version is 94.1900, 0.3127, 0.3290.

A 20% lighter version of the original color is 100.0000, 0.3127, 0.3290, and 53.8125, 0.2966, 0.3290 is the 20% darker color. If you saturate the color by 10%, you get 92.0637, 0.2846, 0.3289, and if you desaturate by 10%, it is 100.0000, 0.3127, 0.3290.

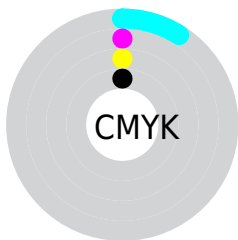
# Distribution



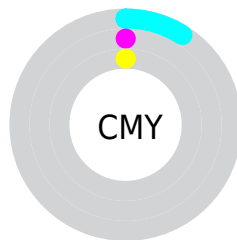
- Red (91%)
- Green (100%)
- Blue (100%)



- Red (91%)
- Yellow (96%)
- Blue (100%)



- Cyan (9%)
- Magenta (0%)
- Yellow (0%)
- Black (0%)




- Cyan (9%)
- Magenta (0%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 96.0636, 0.2993, 0.3290 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 96.0636, 0.2993, 0.3290 by changing the saturation by 10% instead.



 96.0636, 0.2993,  
0.3290

 96.0636, 0.2993,  
0.3290


547.5644, 0.3052,  
0.3290

 73.0205, 0.2980,  
0.3290


155.7332, 0.3013,  
0.3290

 53.9927, 0.2965,  
0.3290


193.1285, 0.3021,  
0.3290

 38.5959, 0.2946,  
0.3289


236.0767, 0.3028,  
0.3290

 26.4455, 0.2922,  
0.3289

284.9621, 0.3034,  
0.3290

 17.1572, 0.2890,  
0.3288

340.1692, 0.3039,  
0.3290

 10.3466, 0.2847,  
0.3287

402.0824, 0.3044,

 5.6294, 0.2785,

0.3290

471.0860, 0.3048,  
0.3290

0.3285

■ 2.6211, 0.2689,  
0.3280

■ 0.9373, 0.2500,  
0.3276

■ 96.0636, 0.2993,  
0.3290

■ 96.0636, 0.2993,  
0.3290

■ 92.0637, 0.2846,  
0.3289

100.0000, 0.3127,  
0.3290

■ 88.6721, 0.2711,  
0.3289

■ 85.8458, 0.2590,  
0.3289

■ 83.5539, 0.2486,  
0.3289

■ 81.7629, 0.2400,  
0.3289

■ 80.4352, 0.2335,  
0.3289

■ 79.5283, 0.2288,  
0.3289

■ 78.9915, 0.2261,  
0.3289

■ 78.7526, 0.2248,  
0.3289

# Harmonies

## Analogous

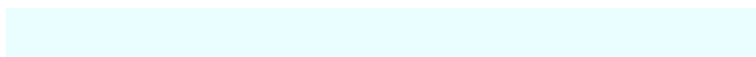
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



96.0636, 0.3055, 0.3364



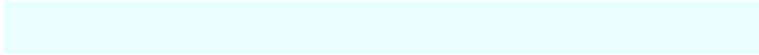
96.0636, 0.2993, 0.3290



96.0636, 0.2967, 0.3218

# Triad

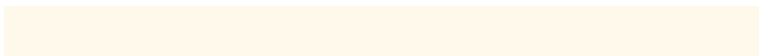
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



96.0636, 0.2993, 0.3290



96.0636, 0.3116, 0.3168



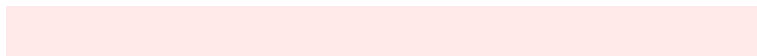
96.0636, 0.3273, 0.3413

# Complementary

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



96.0636, 0.2993, 0.3290



85.3696, 0.3278, 0.3290

# 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.



96.0636, 0.3290, 0.3359



96.0636, 0.2993, 0.3290



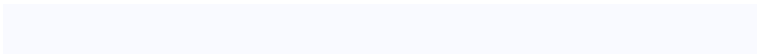
96.0636, 0.3199, 0.3218

# Square

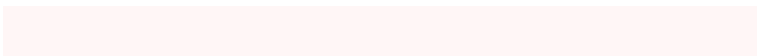
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



96.0636, 0.2993, 0.3290



96.0636, 0.3037, 0.3148



96.0636, 0.3263, 0.3288



96.0636, 0.3217, 0.3435

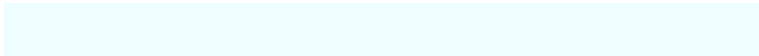


# Rectangle

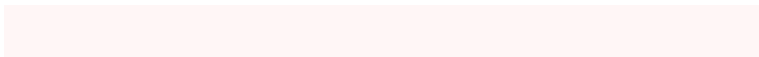
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



96.0636, 0.2993, 0.3290



96.0636, 0.2973, 0.3180



96.0636, 0.3263, 0.3288



96.0636, 0.3284, 0.3398

# Sweetspot

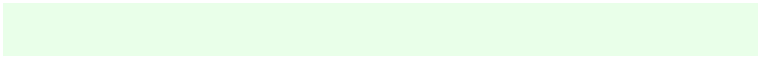
The Sweet Spot groups the original color and five complimentary colors.



96.0487, 0.2993, 0.3290



98.5776, 0.3080, 0.3290



94.7700, 0.3119, 0.3512



21.0204, 0.3068, 0.3290



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.



96.0487, 0.2993, 0.3290



95.4794, 0.2973, 0.3290



89.4275, 0.2993, 0.3183



20.4813, 0.2980, 0.3290



41.1384, 0.2247, 0.3289



4.0056, 0.2247, 0.3289

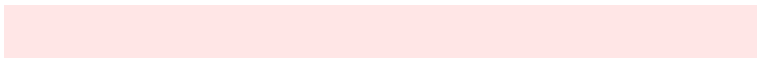


# Inverse Universe

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



85.3696, 0.3278, 0.3290



83.2617, 0.3304, 0.3290



91.5934, 0.3268, 0.3395



17.9873, 0.3295, 0.3290



11.1091, 0.6400, 0.3299



1.0817, 0.6399, 0.3299



# Previews

## White Background



This preview shows how the Yxy color 96.0636, 0.2993, 0.3290 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

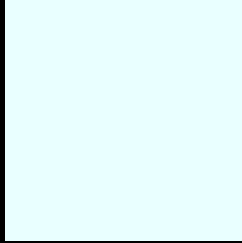
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 96.0636, 0.2993, 0.3290 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

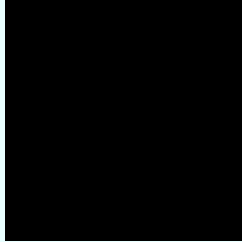
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 96.0636, 0.2993, 0.3290**

## **Background**



This preview shows how black text looks on a background with the Yxy color 96.0636, 0.2993, 0.3290.

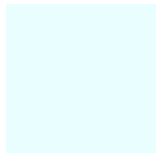


This preview shows how white text looks on a background with the Yxy color 96.0636, 0.2993, 0.3290.

# 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

96.0636, 0.2993, 0.3290



### Protanopia

95.7872, 0.3147, 0.3271

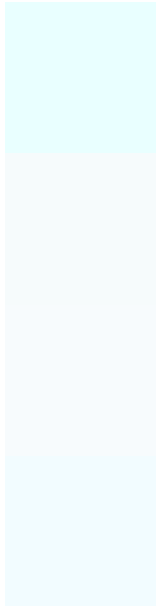
### Deuteranopia

96.0396, 0.3148, 0.3261

## Tritanopia

95.9885, 0.3079, 0.3251

# Trichromacy



## Original Color

96.0636, 0.2993, 0.3290

## Protanomaly

95.6155, 0.3090, 0.3280

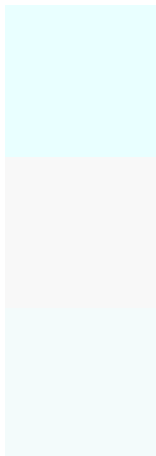
## Deuteranomaly

95.8604, 0.3091, 0.3271

## Tritanomaly

95.7181, 0.3048, 0.3261

# Monochromacy



## Original Color

96.0636, 0.2993, 0.3290

## Achromatopsia

93.8686, 0.3127, 0.3290

## Achromatomaly

95.0141, 0.3077, 0.3290

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 96.0636, 0.2993, 0.3290 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(233, 255, 255)` looks like.

```
.text, #text, p{  
    color:rgb(233, 255, 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(233, 255, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 255, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 96.0636, 0.2993, 0.3290 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(233, 255, 255) }
```

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

```
.border{ border-color:rgb(233, 255, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 255, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 255, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 255, 255);  
box-shadow:4px 4px 4px 4px rgb(233, 255,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 96.0636, 0.2993, 0.3290 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 255, 255) }
```

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

```
.background{ background-color: rgb(233,  
255, 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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