

# Converting Colors

$Y_{xy}(77.7121, 0.3132, 0.3271)$

Have a look what the booklet for  
Yxy(77.7121, 0.3132, 0.3271)  
contains.

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# Color

**Yxy(77.9669, 0.3135, 0.3280)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E6E4E5
RGB	230, 228, 229
RGB Percent	90%, 89%, 90%
CMY	0.0979, 0.1059, 0.1021
CMYK	0.00, 0.01, 0.00, 0.10
HSL	332°, 4%, 90%
HSV	332°, 1%, 90%
XYZ	74.5202, 77.9669, 85.2169
YIQ	228.7120, 0.8710, 0.7350

# Conversions

## Conversions Part 2

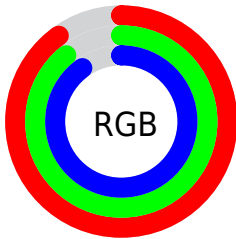
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	230, 228, 229
Decimal	15131877
CIE Lab	90.76, 0.86, -0.23
CIE LCh	91, 0.889, 344.735
Yxy	77.9669, 0.3135, 0.3280
Android (android.graphics.Color)	4293321957 (0xFFE6E4E5)
YUV	228.7120, 0.1420, 1.1296
Hunter-Lab	88.2989, -3.8772, 4.5887

# Details

The Yxy color `77.9669, 0.3135, 0.3280` is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be `78.7639, 0.3119, 0.3300`, and the grayscale version is `78.1331, 0.3127, 0.3290`.

A 20% lighter version of the original color is `100.0000, 0.3127, 0.3290`, and `42.0571, 0.3137, 0.3276` is the 20% darker color. If you saturate the color by 10%, you get `65.4888, 0.3234, 0.3163`, and if you desaturate by 10%, it is `92.1831, 0.3053, 0.3390`.

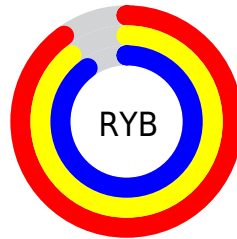
# Distribution



Red (90%)

Green (89%)

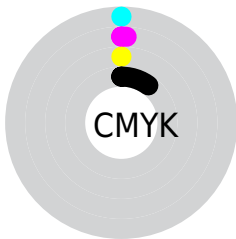
Blue (90%)



Red (90%)

Yellow (89%)

Blue (90%)

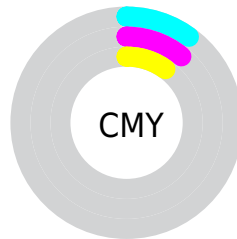


Cyan (0%)

Magenta (1%)

Yellow (0%)

Black (10%)



Cyan (10%)

Magenta (11%)

Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.9669, 0.3135, 0.3280 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 77.9669, 0.3135, 0.3280 by changing the saturation by 10% instead.



■ 77.9669, 0.3135,  
0.3280

■ 77.9669, 0.3135,  
0.3280

488.0544, 0.3131,  
0.3285

■ 58.0468, 0.3136,  
0.3279

130.5035, 0.3134,  
0.3282

■ 41.8463, 0.3137,  
0.3278

163.8887, 0.3133,  
0.3282

■ 28.9809, 0.3138,  
0.3276

202.5311, 0.3133,  
0.3283

■ 19.0664, 0.3140,  
0.3274

246.8151, 0.3133,  
0.3283

■ 11.7183, 0.3142,  
0.3271

297.1250, 0.3132,  
0.3284

■ 6.5521, 0.3145,  
0.3267

353.8452, 0.3132,

■ 3.1836, 0.3150,

0.3284

0.3261

417.3603, 0.3132,  
0.3284

■ 1.2283, 0.3158,  
0.3250

■ 0.0847, 0.3442,  
0.2874

■ 77.9669, 0.3135,  
0.3280

■ 77.9669, 0.3135,  
0.3280

■ 65.4888, 0.3234,  
0.3163

■ 92.1831, 0.3053,  
0.3390

■ 54.6718, 0.3354,  
0.3039

■ 95.4575, 0.2985,  
0.3307

■ 45.4480, 0.3498,  
0.2912

■ 95.5674, 0.2976,  
0.3290

■ 37.7407, 0.3670,  
0.2786

■ 31.4672, 0.3871,  
0.2670

■ 26.5365, 0.4100,  
0.2572

■ 22.8472, 0.4352,  
0.2507

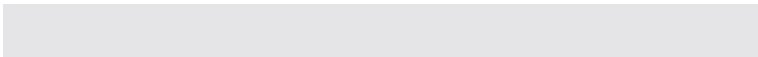
■ 20.2833, 0.4618,  
0.2486

■ 18.7061, 0.4883,  
0.2519

# Harmonies

## Analogous

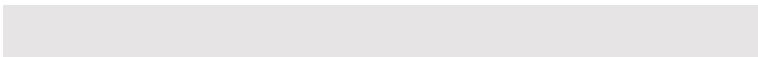
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



77.9669, 0.3124, 0.3274



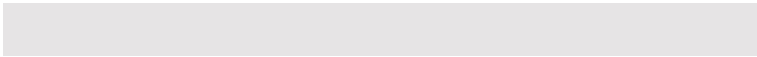
77.9669, 0.3135, 0.3280



77.9669, 0.3143, 0.3289

# Triad

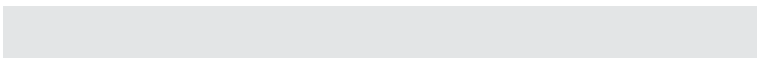
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



77.9669, 0.3135, 0.3280



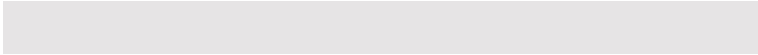
77.9669, 0.3140, 0.3308



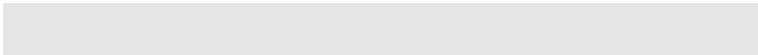
77.9669, 0.3107, 0.3282

# Complementary

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



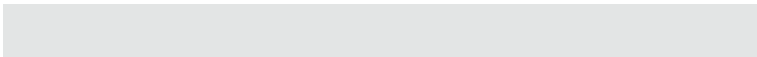
77.9669, 0.3135, 0.3280



78.7639, 0.3119, 0.3300

# Split Complementary

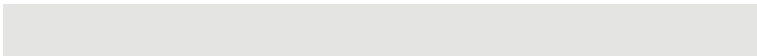
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



77.9669, 0.3111, 0.3292



77.9669, 0.3135, 0.3280



77.9669, 0.3130, 0.3307

# Square

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



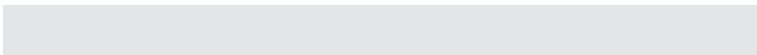
77.9669, 0.3135, 0.3280



77.9669, 0.3146, 0.3305



77.9669, 0.3120, 0.3300



77.9669, 0.3108, 0.3275



# Rectangle

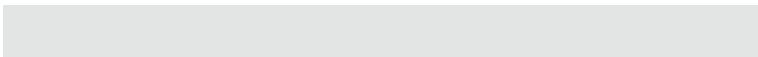
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



77.9669, 0.3135, 0.3280



77.9669, 0.3147, 0.3295



77.9669, 0.3120, 0.3300



77.9669, 0.3108, 0.3285

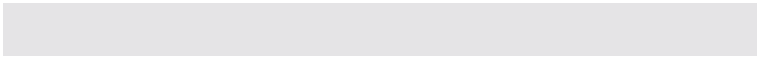
# Sweetspot

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



77.9703, 0.3135, 0.3280

100.0000, 0.3127, 0.3290



77.8688, 0.3121, 0.3269



21.4041, 0.3127, 0.3290



0.0000, 0.0000, 0.0000

# Same Dimension

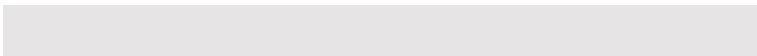
The Same Dimension uses a secret algorithm to generate beautiful new colors.



77.9703, 0.3135, 0.3280



98.2972, 0.3136, 0.3279



77.9357, 0.3141, 0.3290



16.7912, 0.3136, 0.3279



10.1659, 0.5076, 0.2570



0.7699, 0.4732, 0.2381



# Inverse Universe

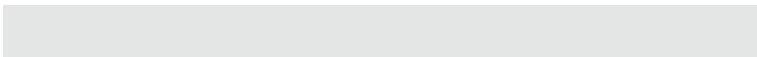
The Inverse Universe completely reimagines the original color for something new.



77.9703, 0.3135, 0.3280



98.2972, 0.3136, 0.3279



78.7986, 0.3113, 0.3290



16.7912, 0.3136, 0.3279



10.1659, 0.5076, 0.2570

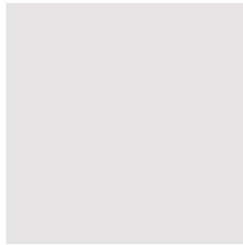


0.7699, 0.4732, 0.2381



# Previews

## White Background



This preview shows how the Yxy color 77.9669, 0.3135, 0.3280 looks on a white background.

## Color Contrast Check

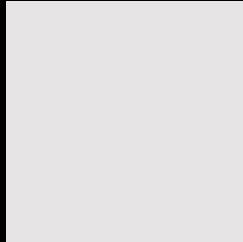
Large Text (above 18pt) WCAG AA × Fail

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 77.9669, 0.3135, 0.3280 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

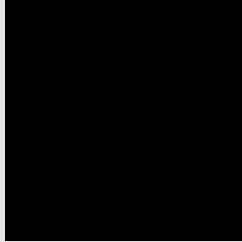
Any Text WCAG AAA ✓ Pass

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

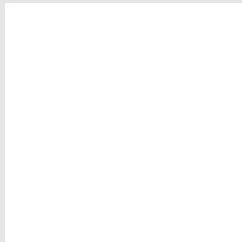


**Yxy 77.9669, 0.3135, 0.3280**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.9669, 0.3135, 0.3280.

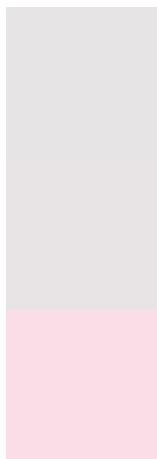


This preview shows how white text looks on a background with the Yxy color 77.9669, 0.3135, 0.3280.

# 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

77.9669, 0.3135, 0.3280

### Protanopia

77.7511, 0.3149, 0.3269

### Deuteranopia

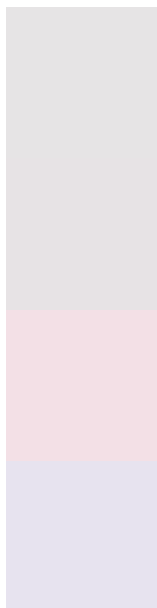
77.7501, 0.3274, 0.3200



## Tritanopia

78.0802, 0.3054, 0.3105

# Trichromacy



## Original Color

77.9669, 0.3135, 0.3280

## Protanomaly

77.5842, 0.3142, 0.3269

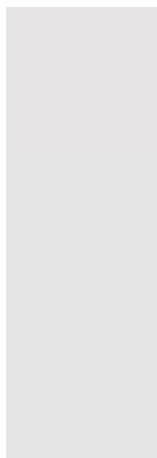
## Deuteranomaly

78.0792, 0.3222, 0.3229

## Tritanomaly

78.1591, 0.3078, 0.3166

# Monochromacy



## Original Color

77.9669, 0.3135, 0.3280

## Achromatopsia

78.3538, 0.3127, 0.3290

## Achromatomaly

78.3538, 0.3127, 0.3290

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.9669, 0.3135, 0.3280 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(230, 228, 229) looks like.

```
.text, #text, p{  
    color:rgb(230, 228, 229)  
}
```

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(230, 228, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 228, 229) }
```

## Border

The CSS property to change the border of an element to Yxy 77.9669, 0.3135, 0.3280 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(230, 228, 229) }
```

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

```
.border{ border-color:rgb(230, 228, 229) }
```

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

Here you see how a box with a 4 pixel `rgb(230, 228, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 228, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 228, 229);  
box-shadow:4px 4px 4px 4px rgb(230, 228,  
229) }
```

# Background

The CSS property to change the background color of an element to Yxy 77.9669, 0.3135, 0.3280 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 228, 229) }
```

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

```
.background{ background-color: rgb(230,  
228, 229) }
```

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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