

# Converting Colors

$Y_{xy}(77.1580, 0.3130, 0.3238)$

Have a look what the booklet for  
Yxy(77.1580, 0.3130, 0.3238)  
contains.

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# Color

**Yxy(77.1512, 0.3130, 0.3238)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E7E2E7
RGB	231, 226, 231
RGB Percent	91%, 89%, 91%
CMY	0.0940, 0.1137, 0.0942
CMYK	0.00, 0.02, 0.00, 0.09
HSL	301°, 9%, 90%
HSV	301°, 2%, 91%
XYZ	74.5779, 77.1512, 86.5390
YIQ	228.0650, 1.3750, 2.6150

# Conversions

## Conversions Part 2

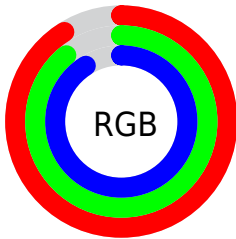
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	231, 226, 231
Decimal	15196903
CIE Lab	90.39, 2.59, -1.83
CIE LCh	90, 3.167, 324.776
Yxy	77.1512, 0.3130, 0.3238
Android (android.graphics.Color)	4293386983 (0xFFE7E2E7)
YUV	228.0650, 1.4470, 2.5740
Hunter-Lab	87.8358, -2.1552, 3.0704

# Details

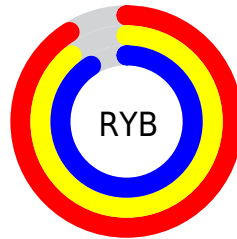
The Yxy color **77.1512, 0.3130, 0.3238** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **78.8305, 0.3124, 0.3343**, and the grayscale version is **77.6249, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **41.3349, 0.3130, 0.3236** is the 20% darker color. If you saturate the color by 10%, you get **65.4101, 0.3143, 0.2994**, and if you desaturate by 10%, it is **90.5918, 0.3117, 0.3472**.

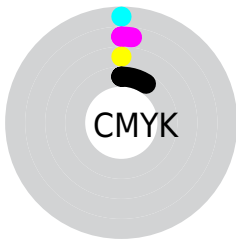
# Distribution



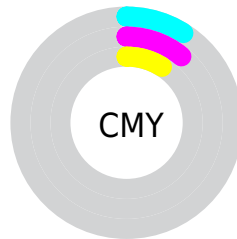
- Red (91%)
- Green (89%)
- Blue (91%)



- Red (91%)
- Yellow (89%)
- Blue (91%)



- Cyan (0%)
- Magenta (2%)
- Yellow (0%)
- Black (9%)



- Cyan (9%)
- Magenta (11%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.1512, 0.3130, 0.3238 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 77.1512, 0.3130, 0.3238 by changing the saturation by 10% instead.



■ 77.1512, 0.3130,  
0.3238

■ 77.1512, 0.3130,  
0.3238

485.2794, 0.3129,  
0.3262

■ 57.3770, 0.3130,  
0.3233

129.3529, 0.3130,  
0.3246

■ 41.3080, 0.3131,  
0.3226

162.5492, 0.3129,  
0.3249

■ 28.5598, 0.3131,  
0.3218

200.9882, 0.3129,  
0.3252

■ 18.7481, 0.3131,  
0.3207

245.0545, 0.3129,  
0.3255

■ 11.4884, 0.3132,  
0.3192

295.1323, 0.3129,  
0.3257

■ 6.3963, 0.3133,  
0.3172

351.6062, 0.3129,

■ 3.0875, 0.3134,

0.3259

0.3140

414.8604, 0.3129,  
0.3260

■ 1.1776, 0.3136,  
0.3084

■ 0.0433, 0.3235,  
0.1343

■ 77.1512, 0.3130,  
0.3238

■ 77.1512, 0.3130,  
0.3238

■ 65.4101, 0.3143,  
0.2994

■ 90.5918, 0.3117,  
0.3472

■ 55.2913, 0.3158,  
0.2746


■ 94.3114, 0.3113,  
0.3528

■ 46.7265, 0.3172,  
0.2500


■ 94.3264, 0.3112,  
0.3525

■ 39.6386, 0.3186,  
0.2267


■ 94.3415, 0.3110,  
0.3523

 33.9439, 0.3199,  
0.2055

 94.3566, 0.3109,  
0.3520


 29.5506, 0.3211,  
0.1875

 94.3717, 0.3107,  
0.3517

 26.3556, 0.3221,  
0.1733

 94.3869, 0.3106,  
0.3514

 24.2404, 0.3229,  
0.1635

 94.4020, 0.3104,  
0.3512

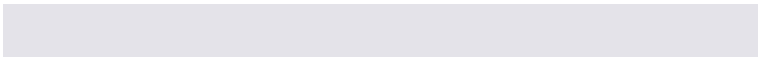
 23.0625, 0.3235,  
0.1578

 94.4172, 0.3102,  
0.3509

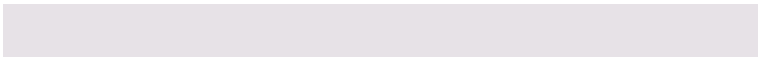
# Harmonies

## Analogous

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



77.1512, 0.3093, 0.3226



77.1512, 0.3130, 0.3238



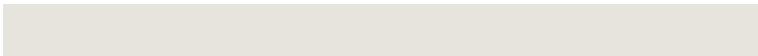
77.1512, 0.3166, 0.3264

# Triad

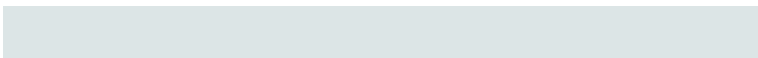
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



77.1512, 0.3130, 0.3238



77.1512, 0.3189, 0.3349



77.1512, 0.3063, 0.3284

# Complementary

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



77.1512, 0.3130, 0.3238



78.8305, 0.3124, 0.3343

# 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.



77.1512, 0.3088, 0.3317



77.1512, 0.3130, 0.3238



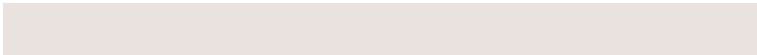
77.1512, 0.3161, 0.3355

# Square

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



77.1512, 0.3130, 0.3238



77.1512, 0.3201, 0.3327



77.1512, 0.3124, 0.3343



77.1512, 0.3054, 0.3252

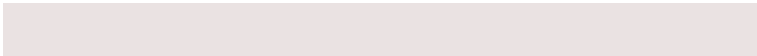


# Rectangle

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



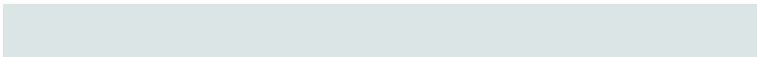
77.1512, 0.3130, 0.3238



77.1512, 0.3185, 0.3285



77.1512, 0.3124, 0.3343



77.1512, 0.3070, 0.3295

# Sweetspot

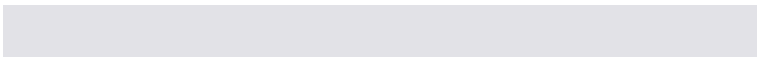
The Sweet Spot groups the original color and five complimentary colors.



77.1545, 0.3130, 0.3238



98.3819, 0.3128, 0.3266



76.3331, 0.3095, 0.3237



21.0748, 0.3128, 0.3267



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

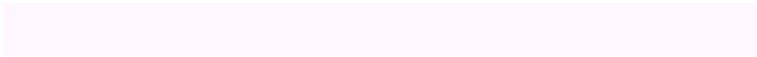


# Same Dimension

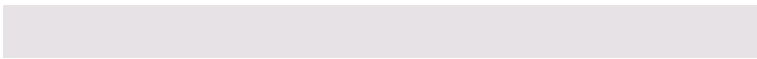
The Same Dimension uses a secret algorithm to generate beautiful new colors.



77.1545, 0.3130, 0.3238



95.2101, 0.3131, 0.3218



77.0167, 0.3146, 0.3264



16.0452, 0.3132, 0.3199



12.6767, 0.3238, 0.1557



0.9377, 0.3233, 0.1555



# Inverse Universe

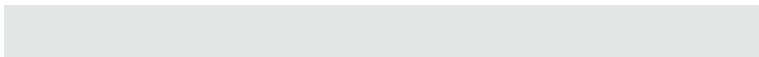
The Inverse Universe completely reimagines the original color for something new.



77.1545, 0.3130, 0.3238



95.2101, 0.3131, 0.3218



78.9663, 0.3109, 0.3316



16.0452, 0.3132, 0.3199



12.6767, 0.3238, 0.1557

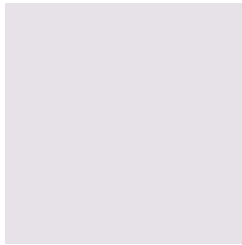


0.9377, 0.3233, 0.1555



# Previews

## White Background



This preview shows how the Yxy color 77.1512, 0.3130, 0.3238 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

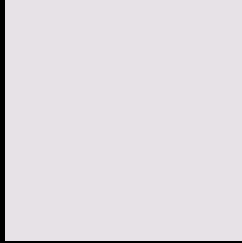
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.1512, 0.3130, 0.3238 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

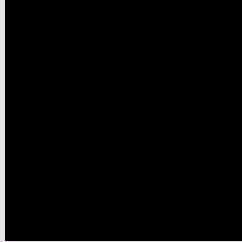
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

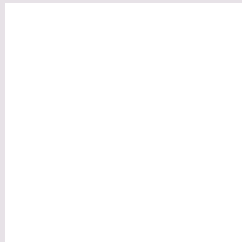
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 77.1512, 0.3130, 0.3238**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.1512, 0.3130, 0.3238.

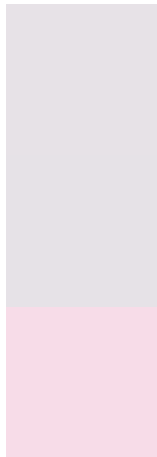


This preview shows how white text looks on a background with the Yxy color 77.1512, 0.3130, 0.3238.

# 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

77.1512, 0.3130, 0.3238

### Protanopia

76.9852, 0.3123, 0.3238

### Deuteranopia

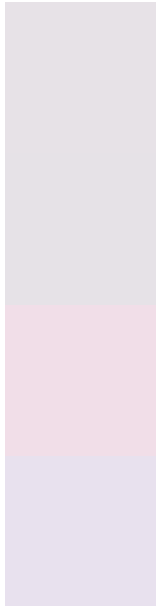
76.7868, 0.3240, 0.3169



## Tritanopia

77.0458, 0.3074, 0.3104

# Trichromacy



## Original Color

77.1512, 0.3130, 0.3238

## Protanomaly

76.9852, 0.3123, 0.3238

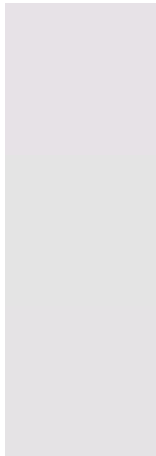
## Deuteranomaly

76.7695, 0.3196, 0.3188

## Tritanomaly

77.1793, 0.3092, 0.3155

# Monochromacy



## Original Color

77.1512, 0.3130, 0.3238

## Achromatopsia

77.5822, 0.3127, 0.3290

## Achromatomaly

77.2533, 0.3128, 0.3269

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.1512, 0.3130, 0.3238 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(231, 226, 231)` looks like.

```
.text, #text, p{  
    color:rgb(231, 226, 231)  
}
```

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(231, 226, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 226, 231) }
```

## Border

The CSS property to change the border of an element to Yxy 77.1512, 0.3130, 0.3238 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(231, 226, 231) }
```

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

```
.border{ border-color:rgb(231, 226, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 226, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 226, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 226, 231);  
box-shadow:4px 4px 4px 4px rgb(231, 226,  
231) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.1512, 0.3130, 0.3238 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 226, 231) }
```

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

```
.background{ background-color: rgb(231,  
226, 231) }
```

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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