

# Converting Colors

$Y_{xy}(77.3558, 0.3214, 0.3316)$

Have a look what the booklet for  
Yxy(77.3558, 0.3214, 0.3316)  
contains.

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# Color

**Yxy(77.5533, 0.3217, 0.3322)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ECE2DF
RGB	236, 226, 223
RGB Percent	93%, 89%, 87%
CMY	0.0745, 0.1137, 0.1256
CMYK	0.00, 0.04, 0.06, 0.07
HSL	14°, 26%, 90%
HSV	14°, 6%, 93%
XYZ	75.1020, 77.5533, 80.7983
YIQ	228.6480, 6.9230, 1.1870

# Conversions

## Conversions Part 2

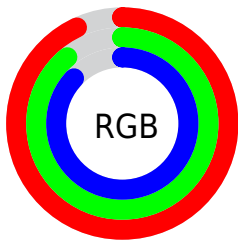
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	236, 227, 223
Decimal	15524575
CIE Lab	90.58, 2.87, 2.68
CIE LCh	91, 3.928, 43.068
Yxy	77.5533, 0.3217, 0.3322
Android (android.graphics.Color)	4293714655 (0xFFECE2DF)
YUV	228.6480, -2.7845, 6.4477
Hunter-Lab	88.0644, -1.8863, 7.2470

# Details

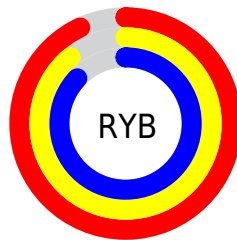
The Yxy color **77.5533, 0.3217, 0.3322** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **79.9872, 0.3042, 0.3258**, and the grayscale version is **78.0996, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **41.6563, 0.3235, 0.3331** is the 20% darker color. If you saturate the color by 10%, you get **67.0492, 0.3405, 0.3383**, and if you desaturate by 10%, it is **89.2788, 0.3061, 0.3265**.

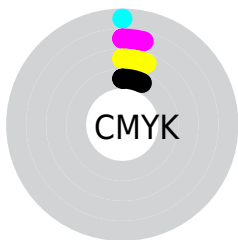
# Distribution



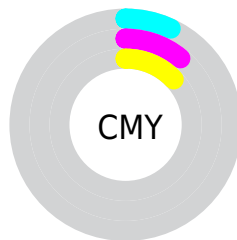
- Red (93%)
- Green (89%)
- Blue (87%)



- Red (93%)
- Yellow (89%)
- Blue (87%)



- Cyan (0%)
- Magenta (4%)
- Yellow (6%)
- Black (7%)



- Cyan (7%)
- Magenta (11%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.5533, 0.3217, 0.3322 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 77.5533, 0.3217, 0.3322 by changing the saturation by 10% instead.



■ 77.5533, 0.3217,  
0.3322

■ 77.5533, 0.3217,  
0.3322

486.6485, 0.3176,  
0.3308

■ 57.7071, 0.3226,  
0.3325

129.9202, 0.3203,  
0.3317

■ 41.5732, 0.3238,  
0.3329

163.2097, 0.3197,  
0.3315

■ 28.7673, 0.3252,  
0.3334

201.7492, 0.3192,  
0.3313

■ 18.9048, 0.3271,  
0.3341

245.9229, 0.3188,  
0.3312

■ 11.6015, 0.3297,  
0.3349

296.1152, 0.3185,  
0.3311

■ 6.4730, 0.3334,  
0.3361

352.7107, 0.3181,

■ 3.1348, 0.3391,

0.3310

0.3379

416.0936, 0.3178,  
0.3309

■ 1.2025, 0.3491,  
0.3410

■ 0.0637, 0.6721,  
0.3279

■ 77.5533, 0.3217,  
0.3322

■ 77.5533, 0.3217,  
0.3322

■ 67.0492, 0.3405,  
0.3383

■ 89.2788, 0.3061,  
0.3265

■ 57.7170, 0.3631,  
0.3448

■ 96.5718, 0.3011,  
0.3290

■ 49.5188, 0.3901,  
0.3514

■ 42.4106, 0.4218,  
0.3576

■ 36.3457, 0.4580,  
0.3628

■ 31.2737, 0.4976,  
0.3660

■ 27.1401, 0.5378,  
0.3663

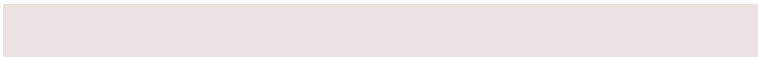
■ 23.8847, 0.5746,  
0.3626

■ 21.4391, 0.6033,  
0.3549

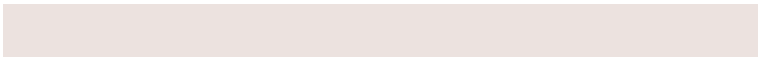
# Harmonies

## Analogous

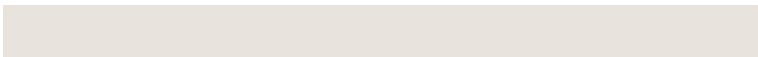
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



77.5533, 0.3197, 0.3281



77.5533, 0.3217, 0.3322



77.5533, 0.3212, 0.3355

# Triad

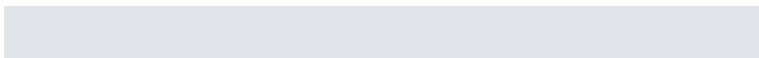
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



77.5533, 0.3217, 0.3322



77.5533, 0.3095, 0.3338



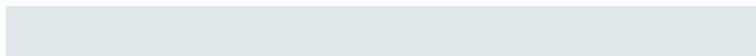
77.5533, 0.3070, 0.3211

# Complementary

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



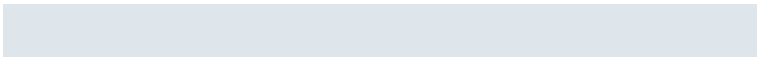
77.5533, 0.3217, 0.3322



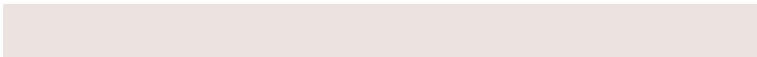
79.9872, 0.3042, 0.3258

# 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.



77.5533, 0.3043, 0.3225



77.5533, 0.3217, 0.3322



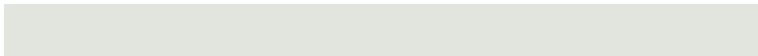
77.5533, 0.3058, 0.3299

# Square

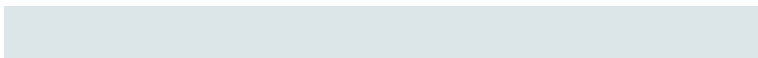
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



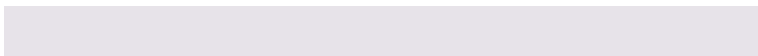
77.5533, 0.3217, 0.3322



77.5533, 0.3142, 0.3364



77.5533, 0.3038, 0.3257



77.5533, 0.3112, 0.3218

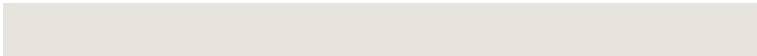


# Rectangle

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



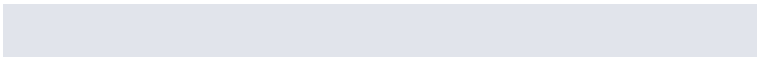
77.5533, 0.3217, 0.3322



77.5533, 0.3196, 0.3367



77.5533, 0.3038, 0.3257



77.5533, 0.3059, 0.3214

# Sweetspot

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



77.5567, 0.3217, 0.3322



97.2078, 0.3159, 0.3302



76.4698, 0.3153, 0.3187



20.8358, 0.3157, 0.3301



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

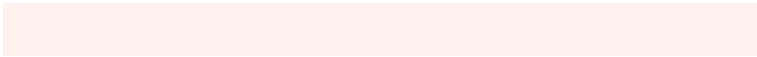


# Same Dimension

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



77.5567, 0.3217, 0.3322



90.4848, 0.3243, 0.3331



81.1639, 0.3212, 0.3389



16.0591, 0.3253, 0.3334



11.5084, 0.6109, 0.3532

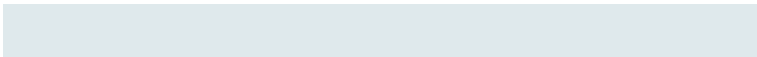


1.0475, 0.5842, 0.3743

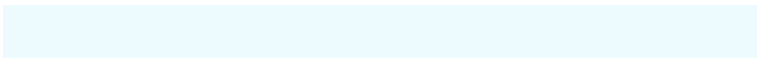


# Inverse Universe

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



79.9872, 0.3042, 0.3258



94.1371, 0.3019, 0.3249



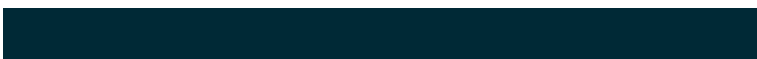
76.3710, 0.3043, 0.3189



16.7601, 0.3010, 0.3245



21.7257, 0.2033, 0.2518

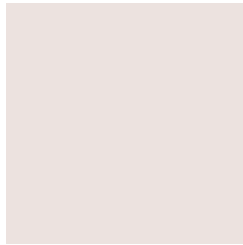


1.8503, 0.2066, 0.2638



# Previews

## White Background



This preview shows how the Yxy color 77.5533, 0.3217, 0.3322 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

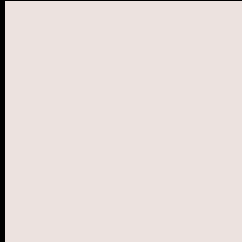
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.5533, 0.3217, 0.3322 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

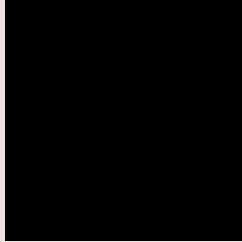
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

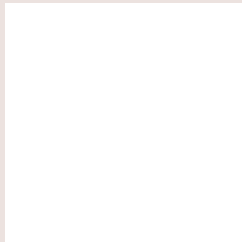
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 77.5533, 0.3217, 0.3322**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.5533, 0.3217, 0.3322.

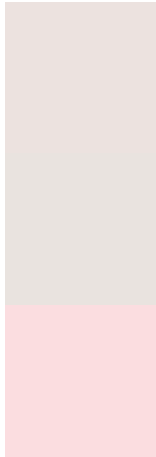


This preview shows how white text looks on a background with the Yxy color 77.5533, 0.3217, 0.3322.

# 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

77.5533, 0.3217, 0.3322

### Protanopia

77.5895, 0.3195, 0.3332

### Deuteranopia

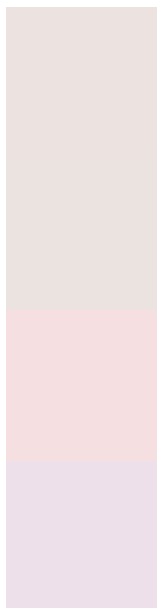
77.6040, 0.3323, 0.3260



## Tritanopia

77.4769, 0.3122, 0.3106

# Trichromacy



## Original Color

77.5533, 0.3217, 0.3322

## Protanomaly

77.7583, 0.3202, 0.3332

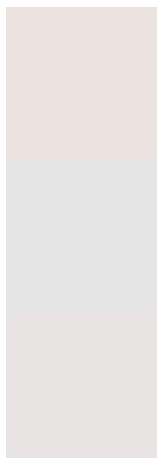
## Deuteranomaly

77.7500, 0.3284, 0.3280

## Tritanomaly

77.4290, 0.3160, 0.3187

# Monochromacy



## Original Color

77.5533, 0.3217, 0.3322

## Achromatopsia

78.3538, 0.3127, 0.3290

## Achromatomaly

78.1887, 0.3161, 0.3301

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.5533, 0.3217, 0.3322 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(236, 226, 223)` looks like.

```
.text, #text, p{  
    color:rgb(236, 226, 223)  
}
```

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(236, 226, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 226, 223) }
```

## Border

The CSS property to change the border of an element to Yxy 77.5533, 0.3217, 0.3322 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(236, 226, 223) }
```

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

```
.border{ border-color:rgb(236, 226, 223) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 226, 223)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 226, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 226, 223);  
box-shadow:4px 4px 4px 4px rgb(236, 226,  
223) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 77.5533, 0.3217, 0.3322$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 226, 223) }
```

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

```
.background{ background-color: rgb(236,  
226, 223) }
```

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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