

# Converting Colors

$Y_{xy}(77.7295, 0.3120, 0.3291)$

Have a look what the booklet for  
Yxy(77.7295, 0.3120, 0.3291)  
contains.

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# Color

**Yxy(77.4191, 0.3120, 0.3290)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E3E4E4
RGB	227, 228, 228
RGB Percent	89%, 89%, 89%
CMY	0.1099, 0.1058, 0.1058
CMYK	0.00, 0.00, 0.00, 0.11
HSL	180°, 2%, 89%
HSV	180°, 0%, 89%
XYZ	73.4187, 77.4191, 84.4786
YIQ	227.7010, -0.5960, -0.2120

# Conversions

## Conversions Part 2

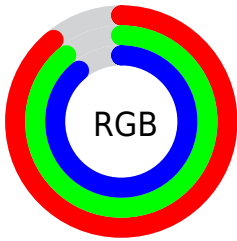
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	227, 228, 228
Decimal	14935268
CIE <sub>Lab</sub>	90.51, -0.35, -0.13
CIE <sub>LCh</sub>	91, 0.370, 200.979
Yxy	77.4191, 0.3120, 0.3290
Android (android.graphics.Color)	4293125348 (0xFFE3E4E4)
YUV	227.7010, 0.1474, -0.6148
Hunter-Lab	87.9881, -5.0359, 4.6666

# Details

The Yxy color  $77.4191, 0.3120, 0.3290$  is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be  $76.9618, 0.3134, 0.3290$ , and the grayscale version is  $77.3517, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $41.6749, 0.3118, 0.3290$  is the 20% darker color. If you saturate the color by 10%, you get  $73.9523, 0.2967, 0.3291$ , and if you desaturate by 10%, it is  $81.3835, 0.3278, 0.3290$ .

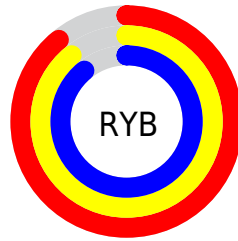
# Distribution



Red (89%)

Green (89%)

Blue (89%)



Red (89%)

Yellow (89%)

Blue (89%)



Cyan (0%)

Magenta (0%)

Yellow (0%)

Black (11%)



Cyan (11%)

Magenta (11%)

Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.4191, 0.3120, 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 77.4191, 0.3120, 0.3290 by changing the saturation by 10% instead.



■ 77.4191, 0.3120,  
0.3290

■ 77.4191, 0.3120,  
0.3290

486.1918, 0.3123,  
0.3290

■ 57.5969, 0.3119,  
0.3290

129.7309, 0.3121,  
0.3290

■ 41.4847, 0.3118,  
0.3290

162.9893, 0.3122,  
0.3290

■ 28.6980, 0.3117,  
0.3290

201.4953, 0.3122,  
0.3290

■ 18.8525, 0.3116,  
0.3290

245.6331, 0.3122,  
0.3290

■ 11.5637, 0.3114,  
0.3290

295.7873, 0.3123,  
0.3290

■ 6.4474, 0.3111,  
0.3290

352.3422, 0.3123,

■ 3.1190, 0.3106,

0.3290

0.3290

415.6823, 0.3123,  
0.3290

■ 1.1942, 0.3098,  
0.3289

■ 0.0569, 0.2628,  
0.3275

■ 77.4191, 0.3120,  
0.3290

■ 77.4191, 0.3120,  
0.3290

■ 73.9523, 0.2967,  
0.3291

■ 81.3835, 0.3278,  
0.3290

■ 70.9539, 0.2824,  
0.3291

■ 82.3674, 0.3315,  
0.3289


■ 68.4070, 0.2691,  
0.3292

■ 82.3728, 0.3314,  
0.3288


■ 66.2896, 0.2574,  
0.3293


■ 82.3782, 0.3313,  
0.3287

 64.5780, 0.2474,  
0.3294


 82.3835, 0.3313,  
0.3286


 63.2462, 0.2392,  
0.3295


 82.3889, 0.3312,  
0.3285


 62.2651, 0.2329,  
0.3297

 82.3943, 0.3311,  
0.3284

 61.6017, 0.2286,  
0.3298

 82.3997, 0.3311,  
0.3283

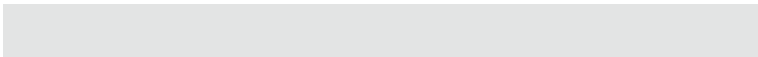
 61.2162, 0.2261,  
0.3299

 82.4051, 0.3310,  
0.3282

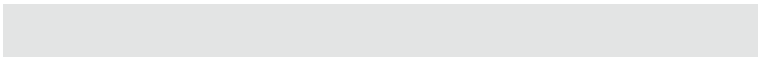
# Harmonies

## Analogous

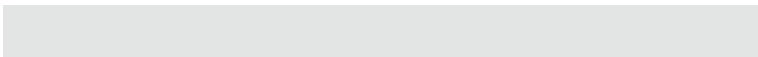
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



77.4191, 0.3123, 0.3294



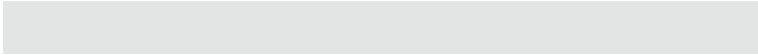
77.4191, 0.3120, 0.3290



77.4191, 0.3119, 0.3286

# Triad

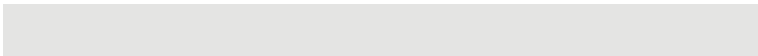
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



77.4191, 0.3120, 0.3290



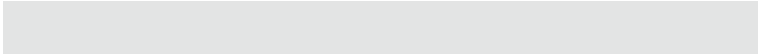
77.4191, 0.3127, 0.3284



77.4191, 0.3135, 0.3297

# Complementary

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



77.4191, 0.3120, 0.3290



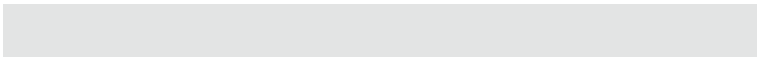
76.9618, 0.3134, 0.3290

# Split Complementary

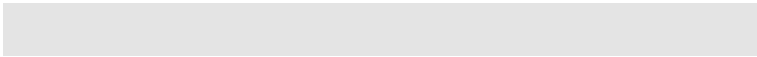
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



77.4191, 0.3136, 0.3294



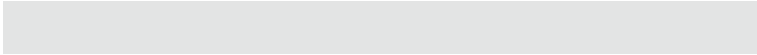
77.4191, 0.3120, 0.3290



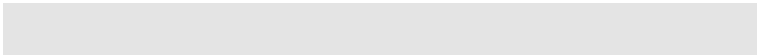
77.4191, 0.3131, 0.3287

# Square

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



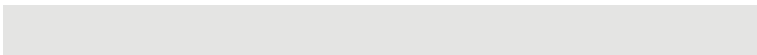
77.4191, 0.3120, 0.3290



77.4191, 0.3123, 0.3283



77.4191, 0.3135, 0.3290



77.4191, 0.3132, 0.3298

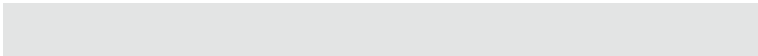


# Rectangle

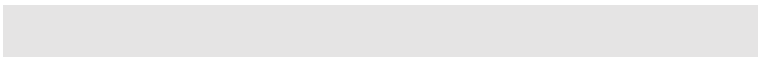
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



77.4191, 0.3120, 0.3290



77.4191, 0.3119, 0.3284



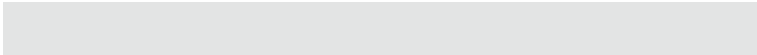
77.4191, 0.3135, 0.3290



77.4191, 0.3135, 0.3296

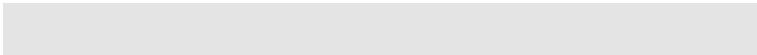
# Sweetspot

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



77.4224, 0.3120, 0.3290

100.0000, 0.3127, 0.3290



77.3676, 0.3127, 0.3301



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.



77.4224, 0.3120, 0.3290



99.5189, 0.3111, 0.3290



77.1449, 0.3120, 0.3285



16.9873, 0.3112, 0.3290



35.2442, 0.2250, 0.3300



2.6048, 0.2250, 0.3298



# Inverse Universe

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



76.9618, 0.3134, 0.3290



98.2213, 0.3143, 0.3290



77.2384, 0.3134, 0.3295



16.7790, 0.3142, 0.3290



9.5259, 0.6396, 0.3297

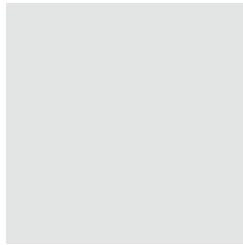


0.7043, 0.6383, 0.3290



# Previews

## White Background



This preview shows how the Yxy color 77.4191, 0.3120, 0.3290 looks on a white background.

## Color Contrast Check

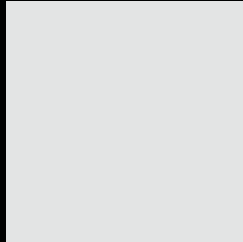
Large Text (above 18pt) WCAG AA × Fail

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 77.4191, 0.3120, 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

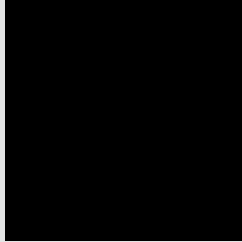
Any Text WCAG AAA ✓ Pass

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

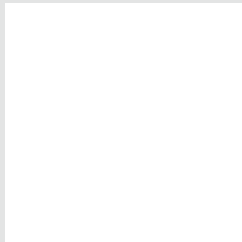


**Yxy 77.4191, 0.3120, 0.3290**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.4191, 0.3120, 0.3290.

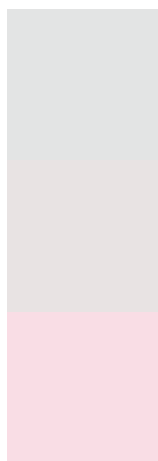


This preview shows how white text looks on a background with the Yxy color 77.4191, 0.3120, 0.3290.

# 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

77.4191, 0.3120, 0.3290

### Protanopia

77.6400, 0.3162, 0.3290

### Deuteranopia

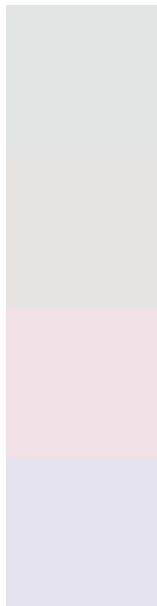
77.5098, 0.3274, 0.3210



## Tritanopia

77.5218, 0.3040, 0.3114

# Trichromacy



## Original Color

77.4191, 0.3120, 0.3290

## Protanomaly

77.3072, 0.3148, 0.3290

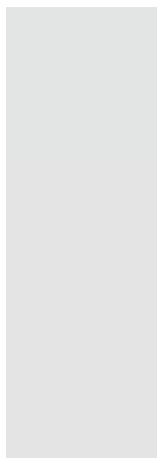
## Deuteranomaly

77.6692, 0.3214, 0.3239

## Tritanomaly

77.6052, 0.3064, 0.3175

# Monochromacy



## Original Color

77.4191, 0.3120, 0.3290

## Achromatopsia

77.5822, 0.3127, 0.3290

## Achromatomaly

77.5822, 0.3127, 0.3290

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.4191, 0.3120, 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(227, 228, 228)` looks like.

```
.text, #text, p{  
    color:rgb(227, 228, 228)  
}
```

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(227, 228, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 228, 228) }
```

## Border

The CSS property to change the border of an element to Yxy 77.4191, 0.3120, 0.3290 is called "border". The border property can be set on classes, ids or directly on the HTML element.

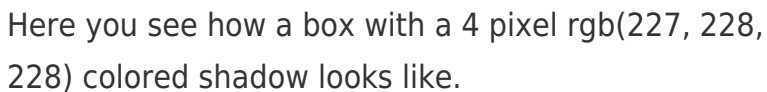
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(227, 228, 228) }
```

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

```
.border{ border-color:rgb(227, 228, 228) }
```

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



Here you see how a box with a 4 pixel `rgb(227, 228, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(227, 228, 228); -webkit-box-shadow:4px 4px 4px 4px rgb(227, 228, 228); box-shadow:4px 4px 4px 4px rgb(227, 228, 228) }
```

# Background

The CSS property to change the background color of an element to Yxy 77.4191, 0.3120, 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(227, 228, 228) }
```

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

```
.background{ background-color: rgb(227,  
228, 228) }
```

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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