

# Converting Colors

$Y_{xy}(79.1856, 0.3095, 0.3260)$

Have a look what the booklet for  
Yxy(79.1856, 0.3095, 0.3260)  
contains.

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# Color

**Yxy(78.9708, 0.3095, 0.3259)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4E6E9
RGB	228, 230, 233
RGB Percent	89%, 90%, 91%
CMY	0.1058, 0.0980, 0.0864
CMYK	0.02, 0.01, 0.00, 0.09
HSL	216°, 10%, 90%
HSV	216°, 2%, 91%
XYZ	74.9968, 78.9708, 88.3484
YIQ	229.7440, -2.1550, 0.5090

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	228, 229, 233
Decimal	15001321
CIE Lab	91.22, -0.13, -1.68
CIE LCh	91, 1.683, 265.623
Yxy	78.9708, 0.3095, 0.3259
Android (android.graphics.Color)	4293191401 (0xFFE4E6E9)
YUV	229.7440, 1.6052, -1.5295
Hunter-Lab	88.8655, -4.8721, 3.2609

# Details

The Yxy color **78.9708, 0.3095, 0.3259** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **80.0488, 0.3160, 0.3321**, and the grayscale version is **78.9220, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **42.7185, 0.3093, 0.3263** is the 20% darker color. If you saturate the color by 10%, you get **67.9893, 0.2938, 0.3102**, and if you desaturate by 10%, it is **91.0889, 0.3242, 0.3398**.

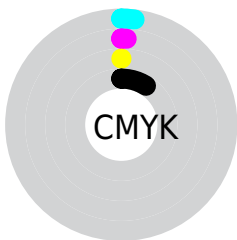
# Distribution



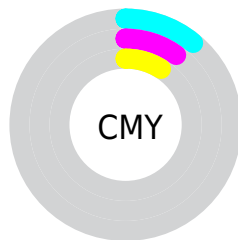
- Red (89%)
- Green (90%)
- Blue (91%)



- Red (89%)
- Yellow (90%)
- Blue (91%)



- Cyan (2%)
- Magenta (1%)
- Yellow (0%)
- Black (9%)



- Cyan (11%)
- Magenta (10%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.9708, 0.3095, 0.3259 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 78.9708, 0.3095, 0.3259 by changing the saturation by 10% instead.



■ 78.9708, 0.3095,  
0.3259

■ 78.9708, 0.3095,  
0.3259

491.4576, 0.3110,  
0.3273

■ 58.8718, 0.3092,  
0.3256

131.9178, 0.3100,  
0.3264

■ 42.5099, 0.3088,  
0.3252

165.5345, 0.3102,  
0.3266

■ 29.5008, 0.3082,  
0.3247

204.4259, 0.3104,  
0.3267

■ 19.4600, 0.3076,  
0.3240

248.9765, 0.3105,  
0.3269

■ 12.0031, 0.3067,  
0.3232

299.5705, 0.3107,  
0.3270

■ 6.7458, 0.3054,  
0.3219

356.5925, 0.3108,

■ 3.3036, 0.3035,

0.3271

420.4267, 0.3109,  
0.3272

0.3200

1.2922, 0.3001,  
0.3167

0.1352, 0.2387,  
0.2575

78.9708, 0.3095,  
0.3259

78.9708, 0.3095,  
0.3259

67.9893, 0.2938,  
0.3102

91.0889, 0.3242,  
0.3398

58.0994, 0.2772,  
0.2927

98.6608, 0.3256,  
0.3503

49.2681, 0.2601,  
0.2733

41.4566, 0.2428,  
0.2523

■ 34.6234, 0.2257,  
0.2300

■ 28.7239, 0.2097,  
0.2068

■ 23.7093, 0.1952,  
0.1834

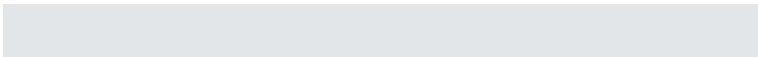
■ 19.5250, 0.1830,  
0.1608

■ 16.1083, 0.1736,  
0.1398

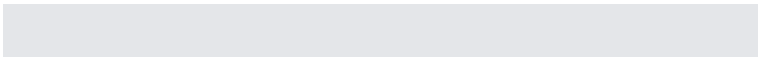
# Harmonies

## Analogous

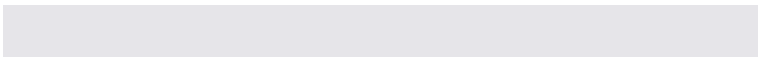
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



78.9708, 0.3089, 0.3270



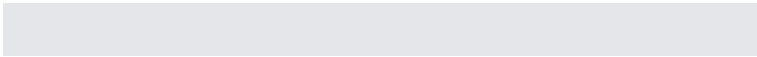
78.9708, 0.3095, 0.3259



78.9708, 0.3110, 0.3256

# Triad

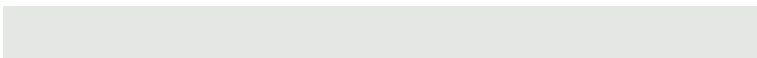
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



78.9708, 0.3095, 0.3259



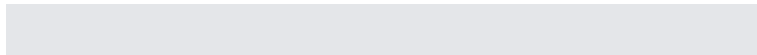
78.9708, 0.3162, 0.3294



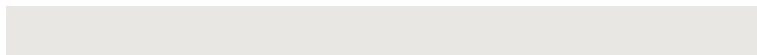
78.9708, 0.3125, 0.3318

# Complementary

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



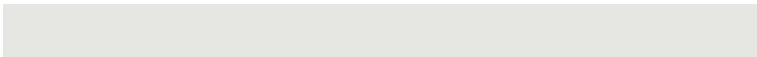
78.9708, 0.3095, 0.3259



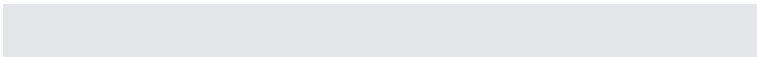
80.0488, 0.3160, 0.3321

# 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.



78.9708, 0.3145, 0.3324



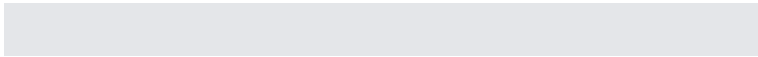
78.9708, 0.3095, 0.3259



78.9708, 0.3166, 0.3310

# Square

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



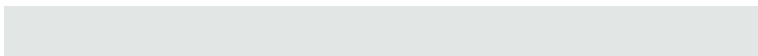
78.9708, 0.3095, 0.3259



78.9708, 0.3148, 0.3277



78.9708, 0.3160, 0.3321

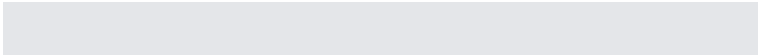


78.9708, 0.3106, 0.3304



# Rectangle

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



78.9708, 0.3095, 0.3259



78.9708, 0.3123, 0.3260



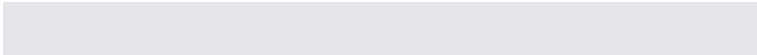
78.9708, 0.3160, 0.3321



78.9708, 0.3132, 0.3321

# Sweetspot

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



78.9742, 0.3095, 0.3259



98.5530, 0.3112, 0.3275



80.5135, 0.3107, 0.3312



21.1097, 0.3113, 0.3276



0.0000, 0.0000, 0.0000

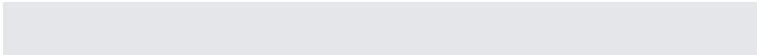


21.4041, 0.3127, 0.3290



# Same Dimension

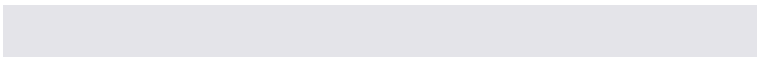
The Same Dimension uses a secret algorithm to generate beautiful new colors.



78.9742, 0.3095, 0.3259



95.7013, 0.3081, 0.3246



77.9366, 0.3099, 0.3238



16.9243, 0.3069, 0.3234



8.1125, 0.1688, 0.1276

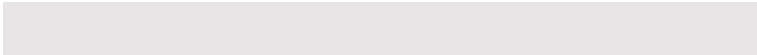


0.8212, 0.1764, 0.1549



# Inverse Universe

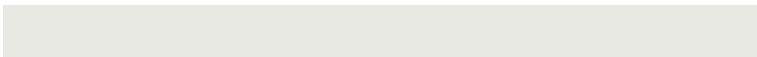
The Inverse Universe completely reimagines the original color for something new.



78.5227, 0.3148, 0.3269



94.9254, 0.3158, 0.3261



81.1035, 0.3155, 0.3341



16.7521, 0.3166, 0.3253



10.3118, 0.5360, 0.2726

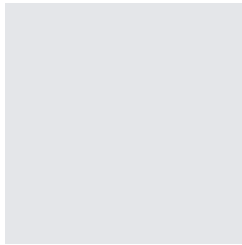


0.8283, 0.4995, 0.2525



# Previews

## White Background



This preview shows how the Yxy color 78.9708, 0.3095, 0.3259 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

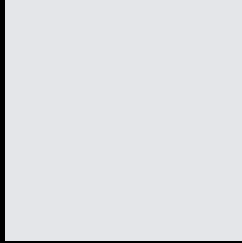
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 78.9708, 0.3095, 0.3259 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

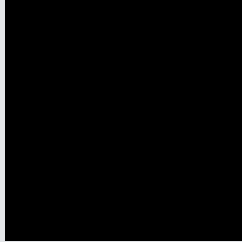
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

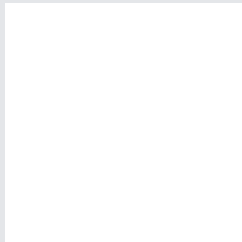
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 78.9708, 0.3095, 0.3259**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.9708, 0.3095, 0.3259.

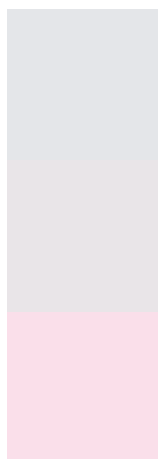


This preview shows how white text looks on a background with the Yxy color 78.9708, 0.3095, 0.3259.

# 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

78.9708, 0.3095, 0.3259

### Protanopia

79.1885, 0.3135, 0.3259

### Deuteranopia

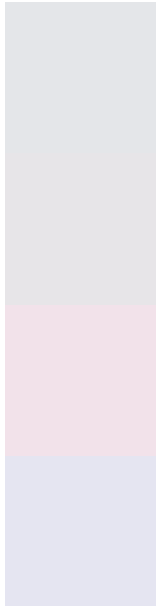
79.0399, 0.3245, 0.3180



## Tritanopia

78.9636, 0.3028, 0.3105

# Trichromacy



## Original Color

78.9708, 0.3095, 0.3259

## Protanomaly

78.8537, 0.3122, 0.3259

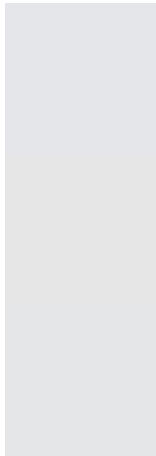
## Deuteranomaly

79.2105, 0.3187, 0.3209

## Tritanomaly

79.0475, 0.3052, 0.3165

# Monochromacy



## Original Color

78.9708, 0.3095, 0.3259

## Achromatopsia

79.1298, 0.3127, 0.3290

## Achromatomaly

79.0212, 0.3114, 0.3280

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.9708, 0.3095, 0.3259 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(228, 230, 233)` looks like.

```
.text, #text, p{  
    color:rgb(228, 230, 233)  
}
```

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(228, 230, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 230, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 78.9708, 0.3095, 0.3259 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(228, 230, 233) }
```

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

```
.border{ border-color:rgb(228, 230, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 230, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(228, 230, 233); -webkit-box-shadow:4px 4px 4px 4px rgb(228, 230, 233); box-shadow:4px 4px 4px 4px rgb(228, 230, 233) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.9708, 0.3095, 0.3259 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 230, 233) }
```

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

```
.background{ background-color: rgb(228,  
230, 233) }
```

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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