

# Converting Colors

$Y_{xy}(82.2300, 0.3075, 0.3225)$

Have a look what the booklet for  
Yxy(82.2300, 0.3075, 0.3225)  
contains.

<b>Yxy(82.2927, 0.3077, 0.3228)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(82.2927, 0.3077, 0.3228)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E8EAF0
RGB	232, 234, 240
RGB Percent	91%, 92%, 94%
CMY	0.0900, 0.0824, 0.0588
CMYK	0.03, 0.03, 0.00, 0.06
HSL	225°, 21%, 93%
HSV	225°, 3%, 94%
XYZ	78.4432, 82.2927, 94.1981
YIQ	234.0860, -3.1180, 1.4420

# Conversions

## Conversions Part 2

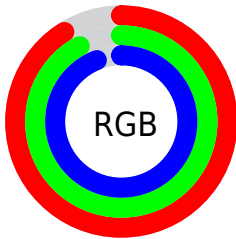
Format	Color
R <sub>Y</sub> B	232, 234, 240
Decimal	15264496
CIE Lab	92.70, 0.45, -3.15
CIE LCh	93, 3.183, 278.159
Yxy	82.2927, 0.3077, 0.3228
Android (android.graphics.Color)	4293454576 (0xFFE8EAF0)
YUV	234.0860, 2.9156, -1.8294
Hunter-Lab	90.7153, -4.3996, 1.9344

# Details

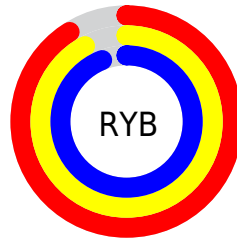
The Yxy color **82.2927, 0.3077, 0.3228** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **85.5506, 0.3177, 0.3351**, and the grayscale version is **82.3350, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **44.5316, 0.3062, 0.3210** is the 20% darker color. If you saturate the color by 10%, you get **68.7340, 0.2916, 0.3025**, and if you desaturate by 10%, it is **97.2666, 0.3217, 0.3407**.

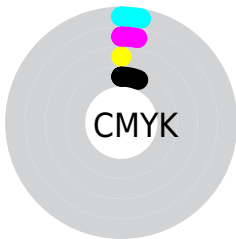
# Distribution



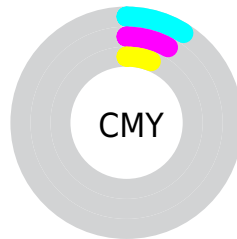
- Red (91%)
- Green (92%)
- Blue (94%)



- Red (91%)
- Yellow (92%)
- Blue (94%)



- Cyan (3%)
- Magenta (3%)
- Yellow (0%)
- Black (6%)



- Cyan (9%)
- Magenta (8%)
- Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 82.2927, 0.3077, 0.3228 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 82.2927, 0.3077, 0.3228 by changing the saturation by 10% instead.



82.2927, 0.3077,  
0.3228

82.2927, 0.3077,  
0.3228

502.6262, 0.3100,  
0.3256

61.6068, 0.3072,  
0.3222

136.5844, 0.3085,  
0.3238

44.7151, 0.3066,  
0.3214

170.9590, 0.3088,  
0.3241

31.2331, 0.3058,  
0.3204

210.6653, 0.3091,  
0.3245

20.7764, 0.3048,  
0.3192

256.0877, 0.3093,  
0.3248

12.9606, 0.3034,  
0.3175

307.6106, 0.3095,  
0.3250

7.4015, 0.3015,  
0.3152

365.6184, 0.3097,

3.7144, 0.2986,

0.3252

0.3117

430.4955, 0.3098,  
0.3254

■ 1.5151, 0.2937,  
0.3057

■ 0.2993, 0.2590,  
0.2623

■ 82.2927, 0.3077,  
0.3228

■ 82.2927, 0.3077,  
0.3228

■ 68.7340, 0.2916,  
0.3025

■ 97.2666, 0.3217,  
0.3407

■ 56.7262, 0.2743,  
0.2797

■ 99.0722, 0.3214,  
0.3434

■ 46.2160, 0.2558,  
0.2545

■ 37.1430, 0.2368,  
0.2273

■ 29.4424, 0.2178,  
0.1987

■ 23.0444, 0.1998,  
0.1699

■ 17.8725, 0.1838,  
0.1422

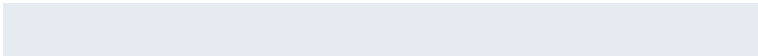
■ 13.8413, 0.1707,  
0.1172

■ 10.8526, 0.1614,  
0.0964

# Harmonies

## Analogous

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



82.2927, 0.3058, 0.3242



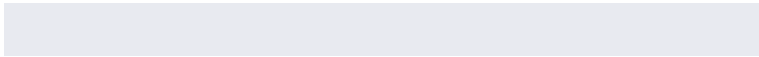
82.2927, 0.3077, 0.3228



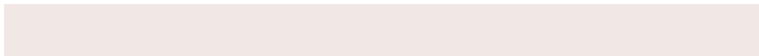
82.2927, 0.3109, 0.3230

# Triad

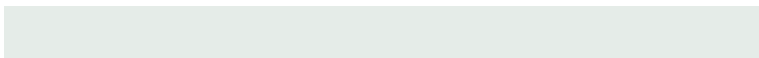
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



82.2927, 0.3077, 0.3228



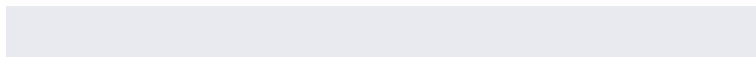
82.2927, 0.3197, 0.3310



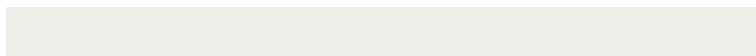
82.2927, 0.3108, 0.3332

# Complementary

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



82.2927, 0.3077, 0.3228



85.5506, 0.3177, 0.3351

# Split Complementary

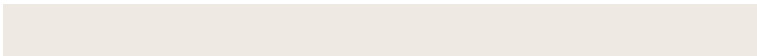
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



82.2927, 0.3145, 0.3351



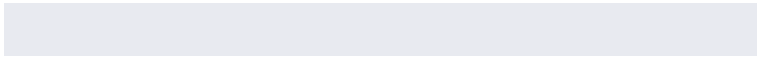
82.2927, 0.3077, 0.3228



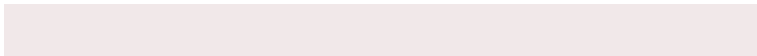
82.2927, 0.3197, 0.3338

# Square

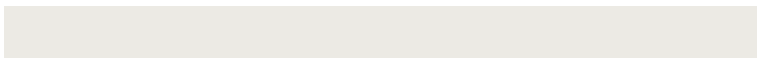
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



82.2927, 0.3077, 0.3228



82.2927, 0.3179, 0.3278



82.2927, 0.3178, 0.3353



82.2927, 0.3076, 0.3302



# Rectangle

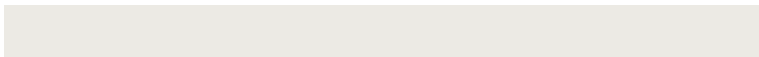
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



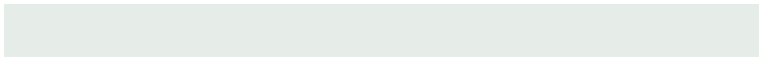
82.2927, 0.3077, 0.3228



82.2927, 0.3134, 0.3241



82.2927, 0.3178, 0.3353



82.2927, 0.3120, 0.3340

# Sweetspot

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



82.2962, 0.3077, 0.3228



98.2948, 0.3112, 0.3272



85.6678, 0.3087, 0.3310



21.0571, 0.3113, 0.3272



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.



82.2962, 0.3077, 0.3228



93.2911, 0.3066, 0.3215



81.5337, 0.3091, 0.3208



17.2540, 0.3055, 0.3201



5.2970, 0.1577, 0.0876



0.5914, 0.1644, 0.1119



# Inverse Universe

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



82.2098, 0.3169, 0.3270



93.1767, 0.3178, 0.3266



86.3394, 0.3163, 0.3371



17.2300, 0.3188, 0.3262



10.3281, 0.5949, 0.3051

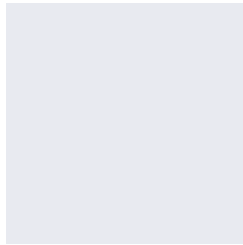


0.8744, 0.5582, 0.2849



# Previews

## White Background



This preview shows how the Yxy color 82.2927, 0.3077, 0.3228 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

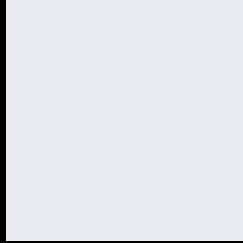
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 82.2927, 0.3077, 0.3228 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

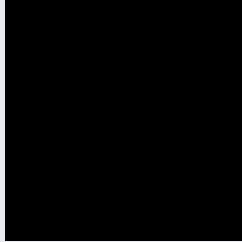
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

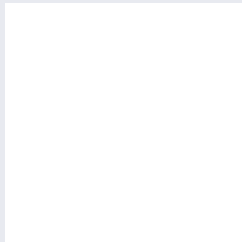
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 82.2927, 0.3077, 0.3228**

## **Background**



This preview shows how black text looks on a background with the Yxy color 82.2927, 0.3077, 0.3228.

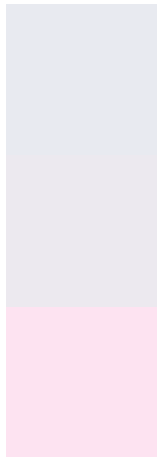


This preview shows how white text looks on a background with the Yxy color 82.2927, 0.3077, 0.3228.

# 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

82.2927, 0.3077, 0.3228

### Protanopia

82.3427, 0.3110, 0.3229

### Deuteranopia

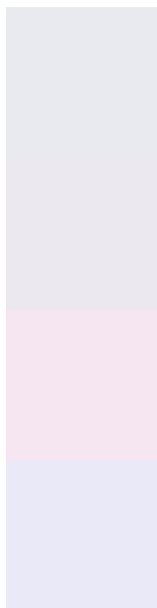
82.1717, 0.3217, 0.3152



## Tritanopia

82.1707, 0.3023, 0.3098

# Trichromacy



## Original Color

82.2927, 0.3077, 0.3228

## Protanomaly

82.1720, 0.3103, 0.3229

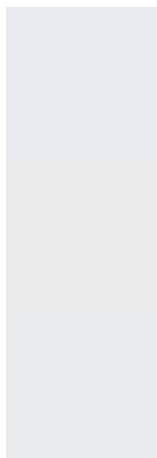
## Deuteranomaly

82.3570, 0.3160, 0.3180

## Tritanomaly

82.3169, 0.3041, 0.3147

# Monochromacy



## Original Color

82.2927, 0.3077, 0.3228

## Achromatopsia

82.2786, 0.3127, 0.3290

## Achromatomaly

82.2254, 0.3108, 0.3269

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 82.2927, 0.3077, 0.3228 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(232, 234, 240)` looks like.

```
.text, #text, p{  
    color:rgb(232, 234, 240)  
}
```

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(232, 234, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 234, 240) }
```

## Border

The CSS property to change the border of an element to Yxy 82.2927, 0.3077, 0.3228 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(232, 234, 240) }
```

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

```
.border{ border-color:rgb(232, 234, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(232, 234, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 234, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 234, 240);  
box-shadow:4px 4px 4px 4px rgb(232, 234,  
240) }
```



# Background

The CSS property to change the background color of an element to Yxy 82.2927, 0.3077, 0.3228 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 234, 240) }
```

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

```
.background{ background-color: rgb(232,  
234, 240) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor