

# Converting Colors

$Yxy(86.9010, 0.3102, 0.3301)$

Have a look what the booklet for  
Yxy(86.9010, 0.3102, 0.3301)  
contains.

<b>Yxy(87.0347, 0.3101, 0.3300)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(87.0347, 0.3101, 0.3300)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ECF1F0
RGB	236, 241, 240
RGB Percent	93%, 95%, 94%
CMY	0.0743, 0.0549, 0.0588
CMYK	0.02, 0.00, 0.00, 0.05
HSL	168°, 15%, 94%
HSV	168°, 2%, 95%
XYZ	81.7862, 87.0347, 94.9206
YIQ	239.3910, -2.6590, -1.3710

# Conversions

## Conversions Part 2

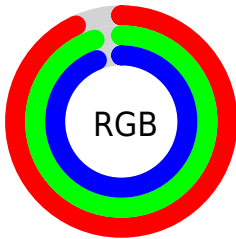
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	236, 239, 241
Decimal	15528432
CIE Lab	94.75, -1.81, -0.10
CIE LCh	95, 1.813, 183.280
Yxy	87.0347, 0.3101, 0.3300
Android (android.graphics.Color)	4293718512 (0xFFECEF1F0)
YUV	239.3910, 0.3002, -2.9739
Hunter-Lab	93.2924, -6.7768, 4.9799

# Details

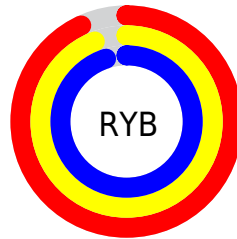
The Yxy color **87.0347, 0.3101, 0.3300** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **84.8359, 0.3154, 0.3280**, and the grayscale version is **86.6433, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **47.8619, 0.3093, 0.3303** is the 20% darker color. If you saturate the color by 10%, you get **82.9011, 0.2976, 0.3352**, and if you desaturate by 10%, it is **90.7505, 0.3195, 0.3253**.

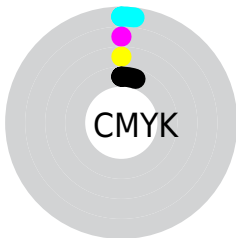
# Distribution



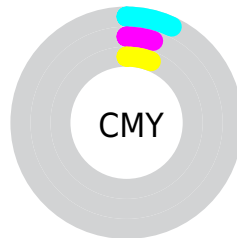
- Red (93%)
- Green (95%)
- Blue (94%)



- Red (93%)
- Yellow (94%)
- Blue (95%)



- Cyan (2%)
- Magenta (0%)
- Yellow (0%)
- Black (5%)



- Cyan (7%)
- Magenta (5%)
- Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 87.0347, 0.3101, 0.3300 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 87.0347, 0.3101, 0.3300 by changing the saturation by 10% instead.



87.0347, 0.3101,  
0.3300

87.0347, 0.3101,  
0.3300

518.3369, 0.3113,  
0.3296

65.5239, 0.3098,  
0.3301

143.2125, 0.3105,  
0.3299

47.8860, 0.3095,  
0.3302

178.6483, 0.3107,  
0.3298

33.7366, 0.3091,  
0.3304

219.4946, 0.3108,  
0.3297

22.6914, 0.3086,  
0.3306

266.1358, 0.3109,  
0.3297

14.3658, 0.3079,  
0.3308

318.9562, 0.3110,  
0.3297

8.3755, 0.3070,  
0.3312

378.3402, 0.3111,

4.3362, 0.3056,

0.3296

0.3317

444.6723, 0.3112,  
0.3296

■ 1.8633, 0.3033,  
0.3325

■ 0.5262, 0.2918,  
0.3368

■ 87.0347, 0.3101,  
0.3300

■ 87.0347, 0.3101,  
0.3300

■ 82.9011, 0.2976,  
0.3352

■ 90.7505, 0.3195,  
0.3253

■ 79.3061, 0.2857,  
0.3409

■ 91.0517, 0.3166,  
0.3206

■ 76.2295, 0.2748,  
0.3471

■ 91.3608, 0.3136,  
0.3159

■ 73.6460, 0.2651,  
0.3537

■ 91.3863, 0.3133,  
0.3156

■ 71.5281, 0.2569,  
0.3607

■ 69.8452, 0.2504,  
0.3679

■ 68.5636, 0.2459,  
0.3753

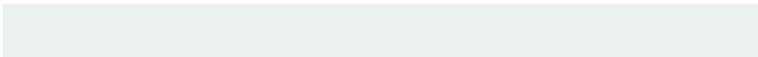
■ 67.6439, 0.2434,  
0.3828

■ 67.0392, 0.2428,  
0.3902

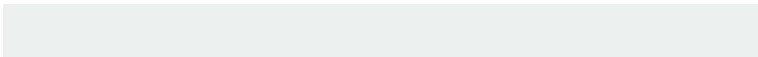
# Harmonies

## Analogous

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



87.0347, 0.3120, 0.3316



87.0347, 0.3101, 0.3300



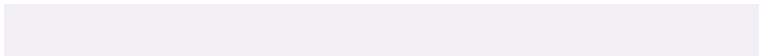
87.0347, 0.3089, 0.3282

# Triad

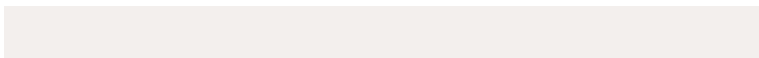
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



87.0347, 0.3101, 0.3300



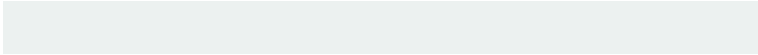
87.0347, 0.3114, 0.3256



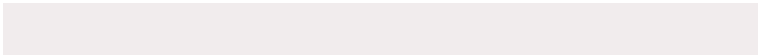
87.0347, 0.3167, 0.3315

# Complementary

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



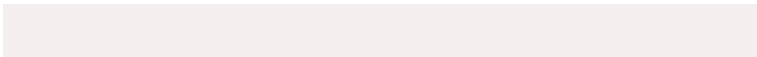
87.0347, 0.3101, 0.3300



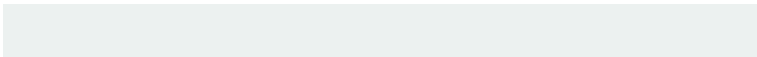
84.8359, 0.3154, 0.3280

# Split Complementary

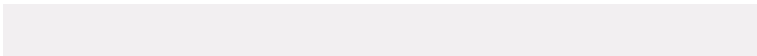
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



87.0347, 0.3165, 0.3299



87.0347, 0.3101, 0.3300



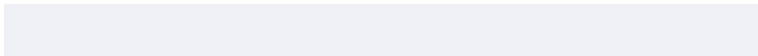
87.0347, 0.3135, 0.3265

# Square

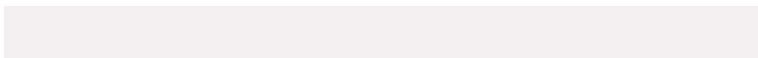
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



87.0347, 0.3101, 0.3300



87.0347, 0.3097, 0.3256



87.0347, 0.3154, 0.3280



87.0347, 0.3158, 0.3324



# Rectangle

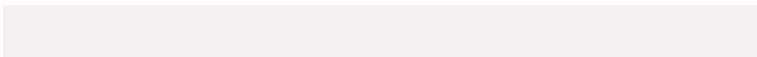
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



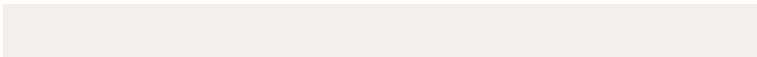
87.0347, 0.3101, 0.3300



87.0347, 0.3087, 0.3270



87.0347, 0.3154, 0.3280



87.0347, 0.3168, 0.3310

# Sweetspot

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



87.0384, 0.3101, 0.3300



99.4864, 0.3114, 0.3295



86.9905, 0.3132, 0.3340



21.2996, 0.3115, 0.3295



0.0000, 0.0000, 0.0000

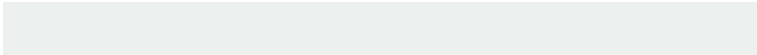


21.4041, 0.3127, 0.3290



# Same Dimension

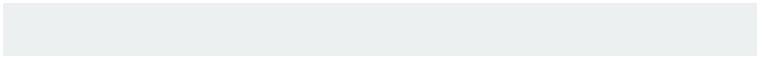
The Same Dimension uses a secret algorithm to generate beautiful new colors.



87.0384, 0.3101, 0.3300



98.9793, 0.3102, 0.3300



86.2719, 0.3095, 0.3276



18.5510, 0.3103, 0.3299



36.2058, 0.2430, 0.3948

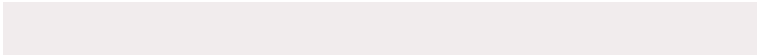


3.0257, 0.2403, 0.3851



# Inverse Universe

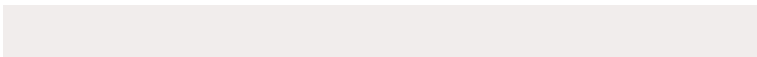
The Inverse Universe completely reimagines the original color for something new.



84.8359, 0.3154, 0.3280



96.5297, 0.3153, 0.3280



85.5876, 0.3159, 0.3304



18.1173, 0.3152, 0.3281



10.2752, 0.6068, 0.3117

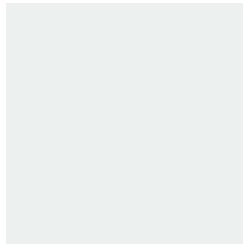


0.8686, 0.5715, 0.2922



# Previews

## White Background



This preview shows how the Yxy color 87.0347, 0.3101, 0.3300 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

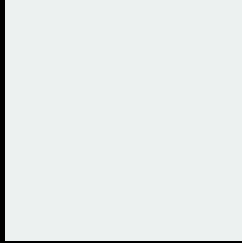
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 87.0347, 0.3101, 0.3300 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

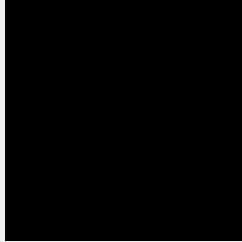
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

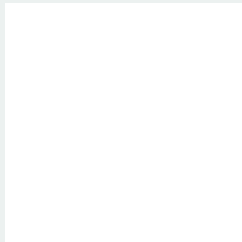
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 87.0347, 0.3101, 0.3300**

## **Background**



This preview shows how black text looks on a background with the Yxy color 87.0347, 0.3101, 0.3300.

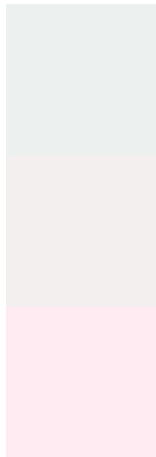


This preview shows how white text looks on a background with the Yxy color 87.0347, 0.3101, 0.3300.

# 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

87.0347, 0.3101, 0.3300

### Protanopia

87.1981, 0.3160, 0.3290

### Deuteranopia

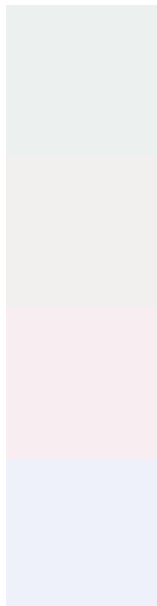
87.0275, 0.3224, 0.3232



## Tritanopia

87.3037, 0.3031, 0.3131

# Trichromacy



## Original Color

87.0347, 0.3101, 0.3300

## Protanomaly

87.2529, 0.3140, 0.3300

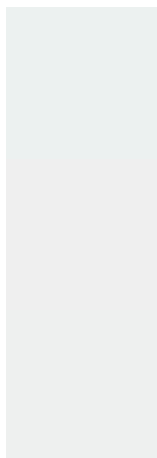
## Deuteranomaly

86.8757, 0.3176, 0.3251

## Tritanomaly

87.3994, 0.3054, 0.3190

# Monochromacy



## Original Color

87.0347, 0.3101, 0.3300

## Achromatopsia

86.3157, 0.3127, 0.3290

## Achromatomaly

86.7293, 0.3120, 0.3300

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 87.0347, 0.3101, 0.3300 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, 241, 240)` looks like.

```
.text, #text, p{  
    color:rgb(236, 241, 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(236, 241, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 241, 240) }
```

## Border

The CSS property to change the border of an element to Yxy 87.0347, 0.3101, 0.3300 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, 241, 240) }
```

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

```
.border{ border-color:rgb(236, 241, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 241, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 241, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 241, 240);  
box-shadow:4px 4px 4px 4px rgb(236, 241,  
240) }
```



# Background

The CSS property to change the background color of an element to Yxy 87.0347, 0.3101, 0.3300 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 241, 240) }
```

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

```
.background{ background-color: rgb(236,  
241, 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