

# Converting Colors

$Yxy(87.1422, 0.2972, 0.3179)$

Have a look what the booklet for  
Yxy(87.1422, 0.2972, 0.3179)  
contains.

<b>Yxy(87.0901, 0.2973, 0.3178)</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(87.0901, 0.2973, 0.3178)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4F2FD
RGB	228, 242, 253
RGB Percent	89%, 95%, 99%
CMY	0.1060, 0.0509, 0.0077
CMYK	0.10, 0.04, 0.00, 0.01
HSL	206°, 86%, 94%
HSV	206°, 10%, 99%
XYZ	81.4723, 87.0901, 105.4782
YIQ	239.0680, -11.8750, 0.4530

# Conversions

## Conversions Part 2

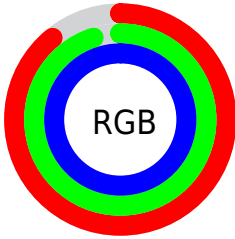
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	228, 237, 253
Decimal	15004413
CIE Lab	94.78, -2.52, -6.90
CIE LCh	95, 7.345, 249.927
Yxy	87.0901, 0.2973, 0.3178
Android (android.graphics.Color)	4293194493 (0xFFE4F2FD)
YUV	239.0680, 6.8685, -9.7066
Hunter-Lab	93.3221, -7.4791, -1.6877

# Details

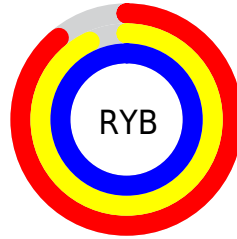
The Yxy color **87.0901, 0.2973, 0.3178** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **88.2178, 0.3290, 0.3400**, and the grayscale version is **86.3242, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **47.8740, 0.2939, 0.3159** is the 20% darker color. If you saturate the color by 10%, you get **76.8299, 0.2813, 0.3052**, and if you desaturate by 10%, it is **98.3663, 0.3129, 0.3291**.

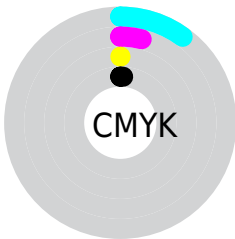
# Distribution



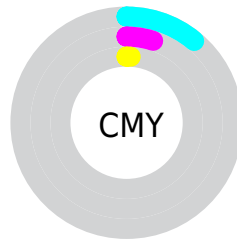
- Red (89%)
- Green (95%)
- Blue (99%)



- Red (89%)
- Yellow (93%)
- Blue (99%)



- Cyan (10%)
- Magenta (4%)
- Yellow (0%)
- Black (1%)



- Cyan (11%)
- Magenta (5%)
- Yellow (1%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 87.0901, 0.2973, 0.3178 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 87.0901, 0.2973, 0.3178 by changing the saturation by 10% instead.



87.0901, 0.2973,  
0.3178

87.0901, 0.2973,  
0.3178

518.5189, 0.3042,  
0.3228

65.5698, 0.2958,  
0.3167

143.2897, 0.2996,  
0.3195

47.9232, 0.2939,  
0.3153

178.7378, 0.3006,  
0.3202

33.7661, 0.2916,  
0.3136

219.5972, 0.3014,  
0.3208

22.7140, 0.2887,  
0.3114

266.2525, 0.3021,  
0.3213

14.3824, 0.2848,  
0.3085

319.0878, 0.3027,  
0.3218

8.3871, 0.2794,  
0.3044

378.4878, 0.3032,

4.3437, 0.2715,

0.3222

0.2983

444.8367, 0.3037,  
0.3225

■ 1.8676, 0.2587,  
0.2883

■ 0.5288, 0.2172,  
0.2604

■ 87.0901, 0.2973,  
0.3178

■ 87.0901, 0.2973,  
0.3178

■ 76.8299, 0.2813,  
0.3052

■ 98.3663, 0.3129,  
0.3291

■ 67.5415, 0.2652,  
0.2914

99.8745, 0.3138,  
0.3309

■ 59.1931, 0.2494,  
0.2764

■ 51.7467, 0.2341,  
0.2603

■ 45.1612, 0.2199,  
0.2435

■ 39.3913, 0.2073,  
0.2262

■ 34.3860, 0.1967,  
0.2088

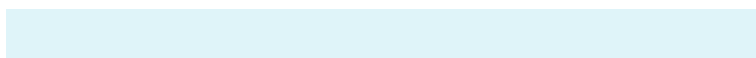
■ 30.0861, 0.1883,  
0.1918

■ 26.3999, 0.1821,  
0.1755

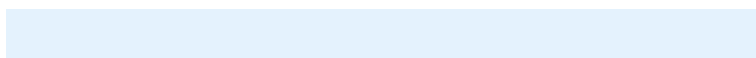
# Harmonies

## Analogous

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



87.0901, 0.2970, 0.3238



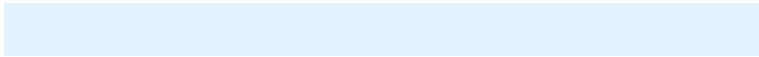
87.0901, 0.2973, 0.3178



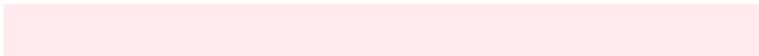
87.0901, 0.3017, 0.3149

# Triad

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



87.0901, 0.2973, 0.3178



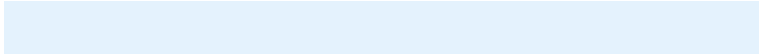
87.0901, 0.3248, 0.3266



87.0901, 0.3162, 0.3427

# Complementary

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



87.0901, 0.2973, 0.3178



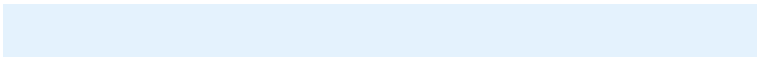
88.2178, 0.3290, 0.3400

# Split Complementary

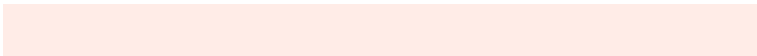
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



87.0901, 0.3237, 0.3433



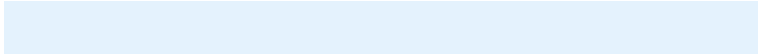
87.0901, 0.2973, 0.3178



87.0901, 0.3288, 0.3339

# Square

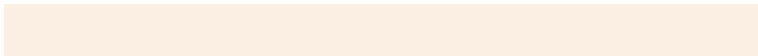
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



87.0901, 0.2973, 0.3178



87.0901, 0.3175, 0.3200



87.0901, 0.3284, 0.3401

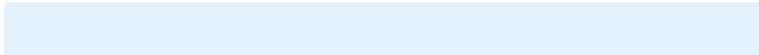


87.0901, 0.3078, 0.3383



# Rectangle

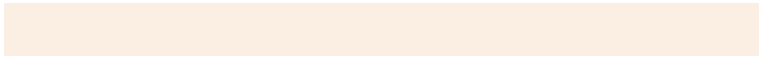
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



87.0901, 0.2973, 0.3178



87.0901, 0.3064, 0.3151



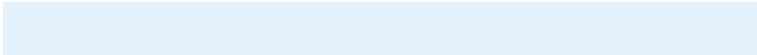
87.0901, 0.3284, 0.3401



87.0901, 0.3189, 0.3434

# Sweetspot

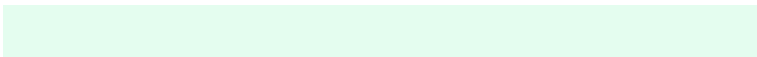
The Sweet Spot groups the original color and five complimentary colors.



87.0938, 0.2973, 0.3178



96.4501, 0.3081, 0.3257



92.9867, 0.3053, 0.3434



20.4446, 0.3069, 0.3249



0.0000, 0.0000, 0.0000

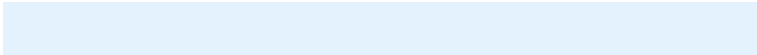


21.4041, 0.3127, 0.3290

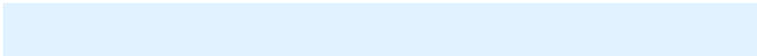


# Same Dimension

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



87.0938, 0.2973, 0.3178



86.3637, 0.2940, 0.3153



79.9721, 0.2972, 0.3050



19.0661, 0.2979, 0.3183



14.3178, 0.1828, 0.1780



1.6118, 0.1880, 0.1967



# Inverse Universe

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



82.7677, 0.3210, 0.3152



81.1699, 0.3229, 0.3122



95.7156, 0.3277, 0.3519



18.1575, 0.3206, 0.3158



12.1734, 0.4710, 0.2368

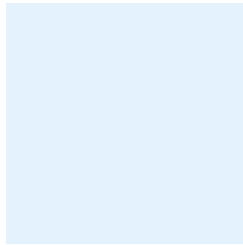


1.2073, 0.4491, 0.2247



# Previews

## White Background



This preview shows how the Yxy color 87.0901, 0.2973, 0.3178 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

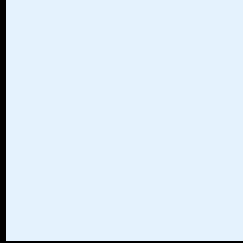
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 87.0901, 0.2973, 0.3178 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

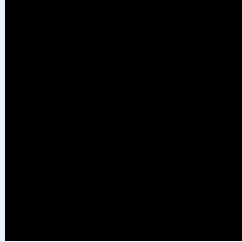
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

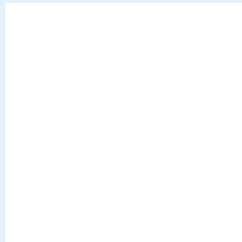
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 87.0901, 0.2973, 0.3178**

## **Background**



This preview shows how black text looks on a background with the Yxy color 87.0901, 0.2973, 0.3178.



This preview shows how white text looks on a background with the Yxy color 87.0901, 0.2973, 0.3178.

# 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

87.0901, 0.2973, 0.3178

### Protanopia

86.8149, 0.3068, 0.3161

### Deuteranopia

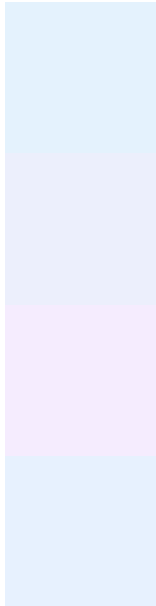
86.6936, 0.3143, 0.3087



## Tritanopia

87.2864, 0.2987, 0.3149

# Trichromacy



## Original Color

87.0901, 0.2973, 0.3178

## Protanomaly

86.5941, 0.3030, 0.3160

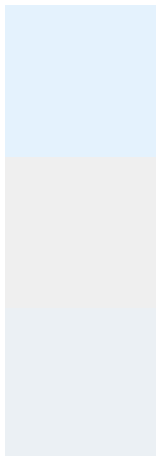
## Deuteranomaly

86.5591, 0.3076, 0.3113

## Tritanomaly

87.0553, 0.2986, 0.3159

# Monochromacy



## Original Color

87.0901, 0.2973, 0.3178

## Achromatopsia

86.3157, 0.3127, 0.3290

## Achromatomaly

86.5140, 0.3071, 0.3249

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 87.0901, 0.2973, 0.3178 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, 242, 253)` looks like.

```
.text, #text, p{  
    color:rgb(228, 242, 253)  
}
```

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, 242, 253) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 242, 253) }
```

## Border

The CSS property to change the border of an element to Yxy 87.0901, 0.2973, 0.3178 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, 242, 253) }
```

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

```
.border{ border-color:rgb(228, 242, 253) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 242, 253)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 242, 253); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 242, 253);  
box-shadow:4px 4px 4px 4px rgb(228, 242,  
253) }
```



# Background

The CSS property to change the background color of an element to Yxy 87.0901, 0.2973, 0.3178 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 242, 253) }
```

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

```
.background{ background-color: rgb(228,  
242, 253) }
```

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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