

# Converting Colors

$Y_{xy}(100.0000, 0.2487, 0.2242)$

Have a look what the booklet for  
Yxy(100.0000, 0.2487, 0.2242)  
contains.

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# Color

**Yxy(90.1984, 0.3050, 0.3172)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F2F3FF
RGB	242, 243, 255
RGB Percent	95%, 95%, 100%
CMY	0.0508, 0.0471, 0.0001
CMYK	0.05, 0.05, 0.00, 0.00
HSL	236°, 100%, 97%
HSV	236°, 5%, 100%
XYZ	86.7292, 90.1984, 107.4305
YIQ	244.0690, -4.4480, 3.5200

# Conversions

## Conversions Part 2

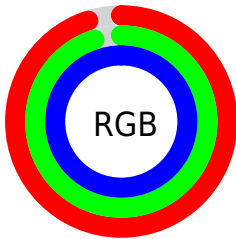
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	242, 243, 255
Decimal	15922175
CIE Lab	96.08, 1.87, -5.87
CIE LCh	96, 6.157, 287.661
Yxy	90.1984, 0.3050, 0.3172
Android (android.graphics.Color)	4294112255 (0xFF2F3FF)
YUV	244.0690, 5.3890, -1.8145
Hunter-Lab	94.9728, -3.1962, -0.5861

# Details

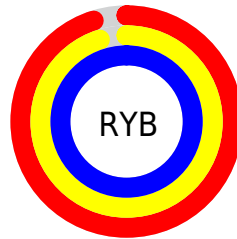
The Yxy color 90.1984, 0.3050, 0.3172 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 98.5821, 0.3203, 0.3405, and the grayscale version is 90.4911, 0.3127, 0.3290.

A 20% lighter version of the original color is 100.0000, 0.3127, 0.3290, and 50.0570, 0.3036, 0.3152 is the 20% darker color. If you saturate the color by 10%, you get 72.7461, 0.2883, 0.2915, and if you desaturate by 10%, it is 99.9989, 0.3127, 0.3290.

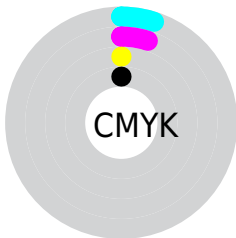
# Distribution



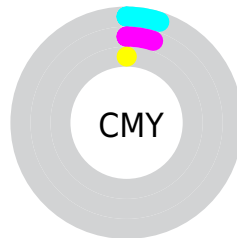
- Red (95%)
- Green (95%)
- Blue (100%)



- Red (95%)
- Yellow (95%)
- Blue (100%)



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




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


# Brightness & Saturation Gradients

These gradients show how the Yxy color 90.1984, 0.3050, 0.3172 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 90.1984, 0.3050, 0.3172 by changing the saturation by 10% instead.




 90.1984, 0.3050,  
0.3172

 90.1984, 0.3050,  
0.3172


528.6760, 0.3084,  
0.3224

 68.1452, 0.3042,  
0.3161

147.6139, 0.3062,  
0.3190

 50.0159, 0.3033,  
0.3147


183.7451, 0.3066,  
0.3197

 35.4260, 0.3022,  
0.3129


225.3377, 0.3070,  
0.3203

 23.9912, 0.3007,  
0.3107

272.7761, 0.3074,  
0.3208

 15.3271, 0.2988,  
0.3078

326.4448, 0.3077,  
0.3213

 9.0493, 0.2961,  
0.3039

386.7280, 0.3080,

 4.7733, 0.2921,

0.3217

0.2981

454.0103, 0.3082,  
0.3221

■ 2.1149, 0.2857,  
0.2888

■ 0.6730, 0.2727,  
0.2679

■ 90.1984, 0.3050,  
0.3172

■ 90.1984, 0.3050,  
0.3172

■ 72.7461, 0.2883,  
0.2915

99.9989, 0.3127,  
0.3290

■ 57.6468, 0.2698,  
0.2627

■ 44.8032, 0.2498,  
0.2310

■ 34.1068, 0.2288,  
0.1975

■ 25.4403, 0.2080,  
0.1635

■ 18.6750, 0.1886,  
0.1312

■ 13.6675, 0.1722,  
0.1031

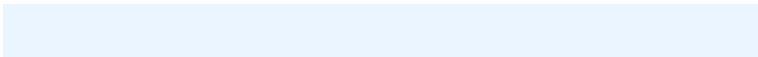
■ 10.2537, 0.1601,  
0.0814

■ 8.2385, 0.1529,  
0.0675

# Harmonies

## Analogous

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



90.1984, 0.3006, 0.3188



90.1984, 0.3050, 0.3172



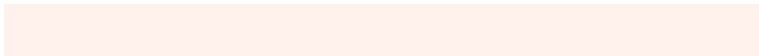
90.1984, 0.3115, 0.3187

# Triad

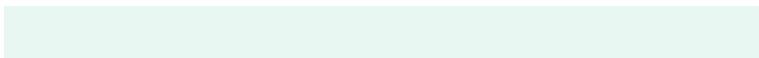
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



90.1984, 0.3050, 0.3172



90.1984, 0.3263, 0.3346



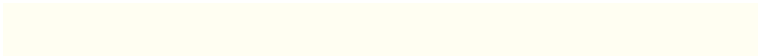
90.1984, 0.3070, 0.3353

# Complementary

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



90.1984, 0.3050, 0.3172



98.5821, 0.3203, 0.3405

# Split Complementary

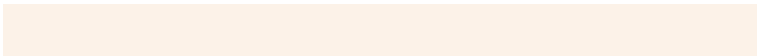
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



90.1984, 0.3138, 0.3397



90.1984, 0.3050, 0.3172



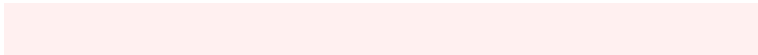
90.1984, 0.3250, 0.3392

# Square

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



90.1984, 0.3050, 0.3172



90.1984, 0.3239, 0.3286



90.1984, 0.3204, 0.3410



90.1984, 0.3017, 0.3293



# Rectangle

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



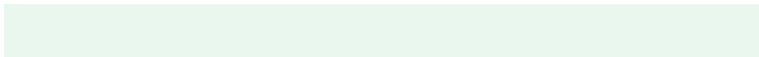
90.1984, 0.3050, 0.3172



90.1984, 0.3162, 0.3212



90.1984, 0.3204, 0.3410



90.1984, 0.3092, 0.3370

# Sweetspot

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



90.2022, 0.3050, 0.3172



96.0649, 0.3097, 0.3244



97.5452, 0.3054, 0.3300



20.6031, 0.3099, 0.3247



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.



90.2022, 0.3050, 0.3172



88.4916, 0.3035, 0.3150



90.6094, 0.3084, 0.3164



18.6841, 0.3025, 0.3134



4.0837, 0.1512, 0.0644



0.4678, 0.1540, 0.0744



# Inverse Universe

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



91.2634, 0.3206, 0.3281



89.7433, 0.3222, 0.3279



98.1722, 0.3168, 0.3415



18.9805, 0.3233, 0.3278



11.1402, 0.6326, 0.3258

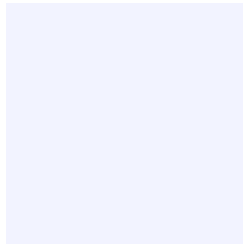


1.0918, 0.6160, 0.3167



# Previews

## White Background



This preview shows how the Yxy color 90.1984, 0.3050, 0.3172 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

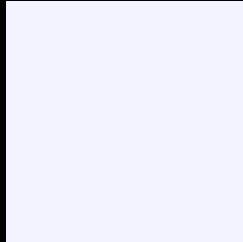
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 90.1984, 0.3050, 0.3172 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

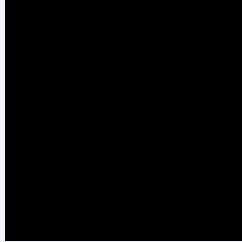
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 90.1984, 0.3050, 0.3172**

## **Background**



This preview shows how black text looks on a background with the Yxy color 90.1984, 0.3050, 0.3172.



This preview shows how white text looks on a background with the Yxy color 90.1984, 0.3050, 0.3172.

# 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

90.1984, 0.3050, 0.3172

### Protanopia

90.1367, 0.3069, 0.3163

### Deuteranopia

90.0213, 0.3153, 0.3165



## Tritanopia

90.3759, 0.3056, 0.3172

# Trichromacy



## Original Color

90.1984, 0.3050, 0.3172

## Protanomaly

89.9574, 0.3062, 0.3163

## Deuteranomaly

89.7360, 0.3114, 0.3164

## Tritanomaly

90.3759, 0.3056, 0.3172

# Monochromacy



## Original Color

90.1984, 0.3050, 0.3172

## Achromatopsia

90.4661, 0.3127, 0.3290

## Achromatomaly

90.5334, 0.3097, 0.3250

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 90.1984, 0.3050, 0.3172 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(242, 243, 255)` looks like.

```
.text, #text, p{  
    color:rgb(242, 243, 255)  
}
```

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(242, 243, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 243, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 90.1984, 0.3050, 0.3172 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(242, 243, 255) }
```

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

```
.border{ border-color:rgb(242, 243, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(242, 243, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 243, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 243, 255);  
box-shadow:4px 4px 4px 4px rgb(242, 243,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 90.1984, 0.3050, 0.3172 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 243, 255) }
```

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

```
.background{ background-color: rgb(242,  
243, 255) }
```

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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