

# Converting Colors

$Y_{xy}(90.1708, 0.2972, 0.3204)$

Have a look what the booklet for  
Yxy(90.1708, 0.2972, 0.3204)  
contains.

<b>Yxy(89.9545, 0.2975, 0.3199)</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(89.9545, 0.2975, 0.3199)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E6F6FF
RGB	230, 246, 255
RGB Percent	90%, 96%, 100%
CMY	0.0978, 0.0353, 0.0000
CMYK	0.10, 0.04, 0.00, 0.00
HSL	202°, 100%, 95%
HSV	202°, 10%, 100%
XYZ	83.6557, 89.9545, 107.5855
YIQ	242.2420, -12.4250, -0.5930

# Conversions

## Conversions Part 2

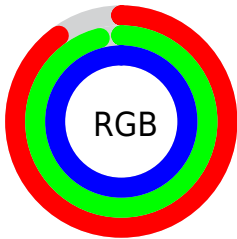
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	230, 240, 255
Decimal	15136511
CIE Lab	95.98, -3.49, -6.14
CIE LCh	96, 7.062, 240.346
Yxy	89.9545, 0.2975, 0.3199
Android (android.graphics.Color)	4293326591 (0xFFE6F6FF)
YUV	242.2420, 6.2897, -10.7362
Hunter-Lab	94.8443, -8.5350, -0.8638

# Details

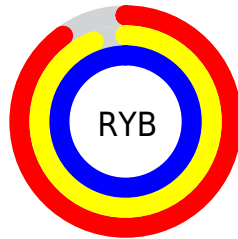
The Yxy color 89.9545, 0.2975, 0.3199 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 88.7505, 0.3290, 0.3379, and the grayscale version is 88.9587, 0.3127, 0.3290.

A 20% lighter version of the original color is 100.0000, 0.3127, 0.3290, and 49.9028, 0.2941, 0.3187 is the 20% darker color. If you saturate the color by 10%, you get 80.5734, 0.2818, 0.3097, and if you desaturate by 10%, it is 100.0000, 0.3127, 0.3290.

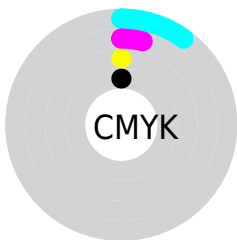
# Distribution



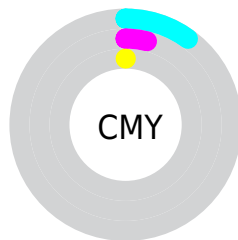
- Red (90%)
- Green (96%)
- Blue (100%)



- Red (90%)
- Yellow (94%)
- Blue (100%)



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




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

# Brightness & Saturation Gradients

These gradients show how the Yxy color 89.9545, 0.2975, 0.3199 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 89.9545, 0.2975, 0.3199 by changing the saturation by 10% instead.




 89.9545, 0.2975,  
0.3199

 89.9545, 0.2975,  
0.3199


527.8828, 0.3043,  
0.3240

 67.9429, 0.2960,  
0.3190


147.2752, 0.2998,  
0.3213

 49.8513, 0.2942,  
0.3179


183.3531, 0.3007,  
0.3218

 35.2953, 0.2920,  
0.3165


224.8885, 0.3015,  
0.3223

 23.8904, 0.2892,  
0.3147

272.2659, 0.3022,  
0.3227

 15.2523, 0.2854,  
0.3124

325.8696, 0.3028,  
0.3231

 8.9967, 0.2803,  
0.3091

386.0841, 0.3033,

 4.7390, 0.2728,

0.3234

0.3043

453.2937, 0.3038,  
0.3237

■ 2.0950, 0.2608,  
0.2963

■ 0.6618, 0.2297,  
0.2796

■ 89.9545, 0.2975,  
0.3199

■ 89.9545, 0.2975,  
0.3199

■ 80.5734, 0.2818,  
0.3097

100.0000, 0.3127,  
0.3290

■ 72.0551, 0.2662,  
0.2984

■ 64.3686, 0.2510,  
0.2862

■ 57.4789, 0.2367,  
0.2733

■ 51.3475, 0.2236,  
0.2596

■ 45.9323, 0.2122,  
0.2456

■ 41.1852, 0.2027,  
0.2315

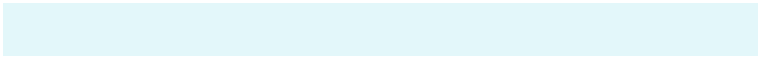
■ 37.0501, 0.1954,  
0.2175

■ 33.4395, 0.1900,  
0.2039

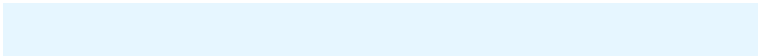
# Harmonies

## Analogous

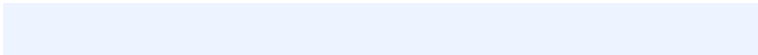
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



89.9545, 0.2985, 0.3262



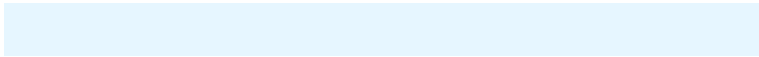
89.9545, 0.2975, 0.3199



89.9545, 0.3005, 0.3161

# Triad

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



89.9545, 0.2975, 0.3199



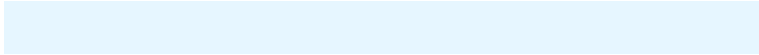
89.9545, 0.3222, 0.3246



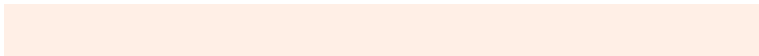
89.9545, 0.3185, 0.3426

# Complementary

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



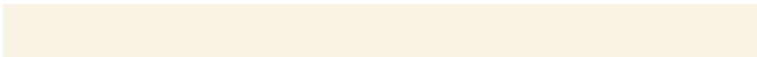
89.9545, 0.2975, 0.3199



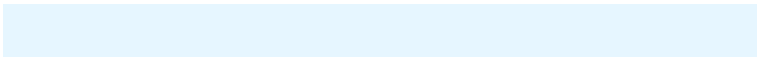
88.7505, 0.3290, 0.3379

# Split Complementary

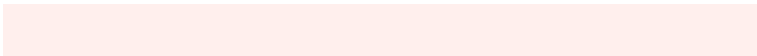
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



89.9545, 0.3250, 0.3420



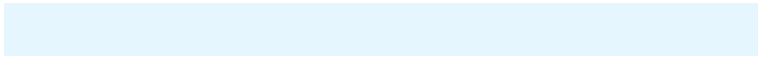
89.9545, 0.2975, 0.3199



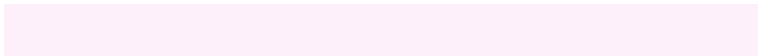
89.9545, 0.3272, 0.3315

# Square

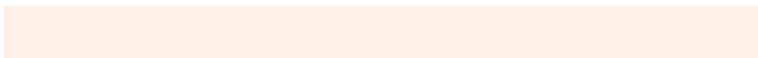
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



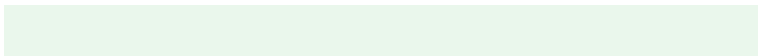
89.9545, 0.2975, 0.3199



89.9545, 0.3148, 0.3189



89.9545, 0.3282, 0.3379

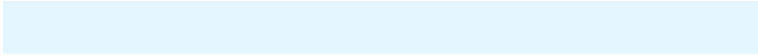


89.9545, 0.3105, 0.3395



# Rectangle

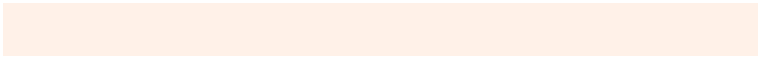
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



89.9545, 0.2975, 0.3199



89.9545, 0.3045, 0.3155



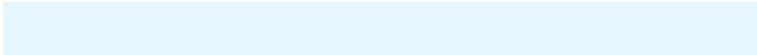
89.9545, 0.3282, 0.3379



89.9545, 0.3209, 0.3429

# Sweetspot

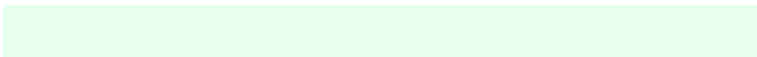
The Sweet Spot groups the original color and five complimentary colors.



89.9563, 0.2975, 0.3199



96.8268, 0.3081, 0.3263



94.5719, 0.3066, 0.3453



20.5464, 0.3068, 0.3256



0.0000, 0.0000, 0.0000

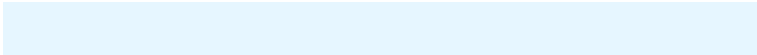


21.4041, 0.3127, 0.3290

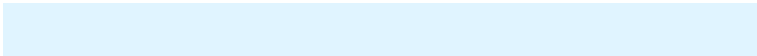


# Same Dimension

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



89.9563, 0.2975, 0.3199



87.7984, 0.2940, 0.3177



82.7837, 0.2974, 0.3075



19.3127, 0.2980, 0.3202



17.7271, 0.1905, 0.2058



1.9335, 0.1949, 0.2214



# Inverse Universe

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



84.5387, 0.3196, 0.3135



81.3148, 0.3213, 0.3099



96.1325, 0.3277, 0.3496



18.1824, 0.3194, 0.3139



12.5175, 0.4387, 0.2191

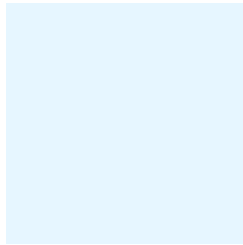


1.2397, 0.4217, 0.2097



# Previews

## White Background



This preview shows how the Yxy color 89.9545, 0.2975, 0.3199 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

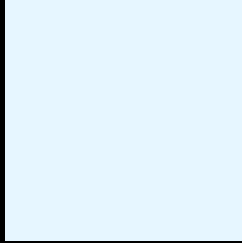
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 89.9545, 0.2975, 0.3199 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

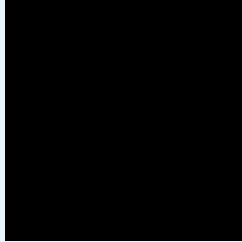
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

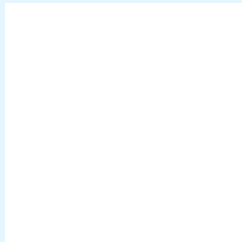
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 89.9545, 0.2975, 0.3199**

## **Background**



This preview shows how black text looks on a background with the Yxy color 89.9545, 0.2975, 0.3199.

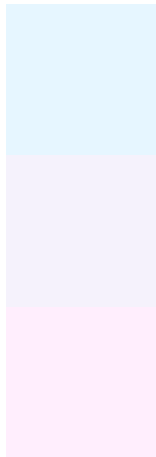


This preview shows how white text looks on a background with the Yxy color 89.9545, 0.2975, 0.3199.

# 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

89.9545, 0.2975, 0.3199

### Protanopia

89.9450, 0.3087, 0.3192

### Deuteranopia

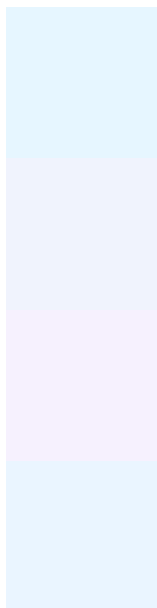
89.5009, 0.3147, 0.3146



## Tritanopia

89.9259, 0.3018, 0.3181

# Trichromacy



## Original Color

89.9545, 0.2975, 0.3199

## Protanomaly

89.7183, 0.3049, 0.3191

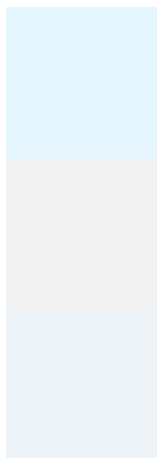
## Deuteranomaly

89.6592, 0.3081, 0.3163

## Tritanomaly

90.0172, 0.2999, 0.3190

# Monochromacy



## Original Color

89.9545, 0.2975, 0.3199

## Achromatopsia

88.7923, 0.3127, 0.3290

## Achromatomaly

88.9937, 0.3071, 0.3250

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 89.9545, 0.2975, 0.3199 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(230, 246, 255)` looks like.

```
.text, #text, p{  
    color:rgb(230, 246, 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(230, 246, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 246, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 89.9545, 0.2975, 0.3199 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(230, 246, 255) }
```

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

```
.border{ border-color:rgb(230, 246, 255) }
```

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

Here you see how a box with a 4 pixel rgb(230, 246, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 246, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 246, 255);  
box-shadow:4px 4px 4px 4px rgb(230, 246,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 89.9545, 0.2975, 0.3199 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 246, 255) }
```

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

```
.background{ background-color: rgb(230,  
246, 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](#).

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