

# Converting Colors

$Y_{xy}(70.2272, 0.2537, 0.2990)$

Have a look what the booklet for  
Yxy(70.2272, 0.2537, 0.2990)  
contains.

<b>Yxy(70.2272, 0.2537, 0.2990)</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(70.2272, 0.2537, 0.2990)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9BE5FF
RGB	155, 229, 255
RGB Percent	61%, 90%, 100%
CMY	0.3923, 0.1019, 0.0000
CMYK	0.39, 0.10, 0.00, 0.00
HSL	196°, 100%, 80%
HSV	196°, 39%, 100%
XYZ	59.5874, 70.2272, 105.0590
YIQ	209.8380, -52.4500, -7.6020

# Conversions

## Conversions Part 2

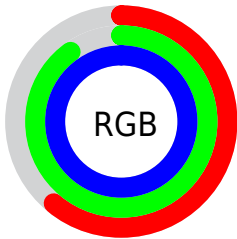
Format	Color
R <sub>Y</sub> B	155, 198, 255
Decimal	10216959
CIE Lab	87.11, -16.50, -19.86
CIE LCh	87, 25.818, 230.278
Yxy	70.2272, 0.2537, 0.2990
Android (android.graphics.Color)	4288407039 (0xFF9BE5FF)
YUV	209.8380, 22.2649, -48.0929
Hunter-Lab	83.8017, -19.7300, -15.6684

# Details

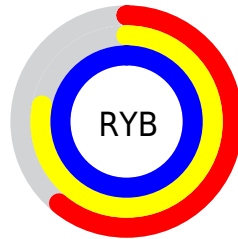
The Yxy color **70.2272, 0.2537, 0.2990** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **56.6585, 0.4007, 0.3566**, and the grayscale version is **64.2092, 0.3127, 0.3290**.

A 20% lighter version of the original color is **92.8861, 0.2877, 0.3289**, and **36.5610, 0.2402, 0.2910** is the 20% darker color. If you saturate the color by 10%, you get **64.3679, 0.2405, 0.2900**, and if you desaturate by 10%, it is **76.7588, 0.2680, 0.3076**.

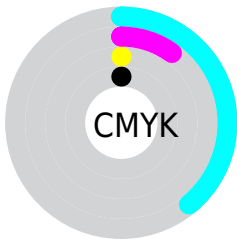
# Distribution



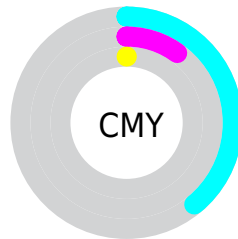
- Red (61%)
- Green (90%)
- Blue (100%)



- Red (61%)
- Yellow (78%)
- Blue (100%)



- Cyan (39%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)




- Cyan (39%)
- Magenta (10%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.2272, 0.2537, 0.2990 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 70.2272, 0.2537, 0.2990 by changing the saturation by 10% instead.




 70.2272, 0.2537,  
0.2990


 70.2272, 0.2537,  
0.2990


461.3473, 0.2805,  
0.3134

 51.7118, 0.2477,  
0.2956


 119.5327, 0.2629,  
0.3041

 36.7754, 0.2404,  
0.2914


 151.0916, 0.2665,  
0.3060

 25.0336, 0.2313,  
0.2859


187.7670, 0.2696,  
0.3077

 16.1021, 0.2196,  
0.2787

229.9435, 0.2724,  
0.3092

 9.5964, 0.2041,  
0.2687

278.0054, 0.2748,  
0.3104

 5.1322, 0.1828,  
0.2542

332.3371, 0.2769,

 2.3250, 0.1521,

0.3116

0.2313

393.3229, 0.2788,  
0.3125

0.7869, 0.0857,  
0.1954

0.0000, 0.0000,  
0.0000

70.2272, 0.2537,  
0.2990

70.2272, 0.2537,  
0.2990

64.3679, 0.2405,  
0.2900

76.7588, 0.2680,  
0.3076

59.1460, 0.2288,  
0.2805

83.9956, 0.2830,  
0.3156

54.5221, 0.2188,  
0.2707

91.9674, 0.2984,  
0.3229

50.4516, 0.2107,  
0.2609

100.0000, 0.3127,  
0.3290

■ 46.8817, 0.2047,  
0.2510

■ 43.7337, 0.2005,  
0.2414

■ 43.5009, 0.2002,  
0.2406

# Harmonies

## Analogous

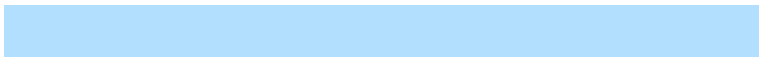
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



70.2272, 0.2621, 0.3263



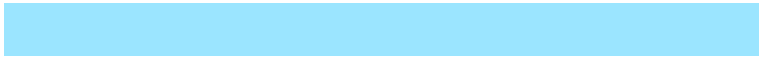
70.2272, 0.2537, 0.2990



70.2272, 0.2600, 0.2817

# Triad

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



70.2272, 0.2537, 0.2990



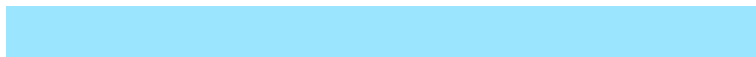
70.2272, 0.3410, 0.3036



70.2272, 0.3445, 0.3852

# Complementary

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



70.2272, 0.2537, 0.2990



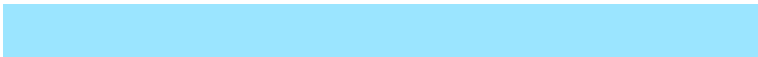
56.6585, 0.4007, 0.3566

# 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.



70.2272, 0.3674, 0.3754



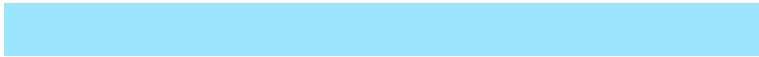
70.2272, 0.2537, 0.2990



70.2272, 0.3658, 0.3282

# Square

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



70.2272, 0.2537, 0.2990



70.2272, 0.3092, 0.2853



70.2272, 0.3755, 0.3542

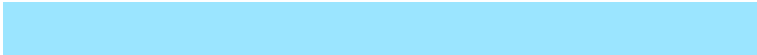


70.2272, 0.3137, 0.3786



# Rectangle

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



70.2272, 0.2537, 0.2990



70.2272, 0.2719, 0.2773



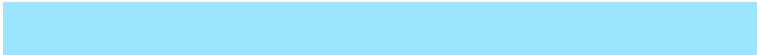
70.2272, 0.3755, 0.3542



70.2272, 0.3534, 0.3836

# Sweetspot

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



70.2270, 0.2537, 0.2991



89.6822, 0.2941, 0.3209



81.7798, 0.2946, 0.4189



18.9695, 0.2921, 0.3200



0.0000, 0.0000, 0.0000

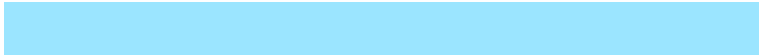


21.4041, 0.3127, 0.3290

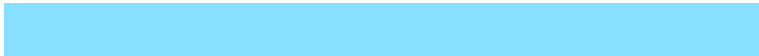


# Same Dimension

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



70.2270, 0.2537, 0.2991



65.6167, 0.2434, 0.2920



46.8186, 0.2445, 0.2391



19.6354, 0.2980, 0.3227



22.9851, 0.2006, 0.2422



2.4151, 0.2037, 0.2533



# Inverse Universe

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



50.3498, 0.3393, 0.2546



44.0038, 0.3464, 0.2405



80.2148, 0.3807, 0.4048



18.2150, 0.3178, 0.3116



13.0483, 0.4000, 0.1977

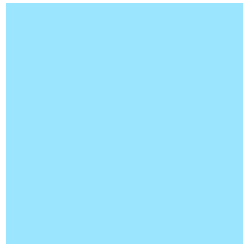


1.2883, 0.3890, 0.1916



# Previews

## White Background



This preview shows how the Yxy color 70.2272, 0.2537, 0.2990 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

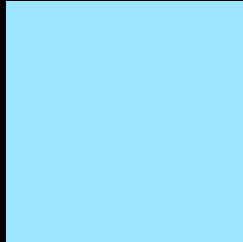
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.2272, 0.2537, 0.2990 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 70.2272, 0.2537, 0.2990**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.2272, 0.2537, 0.2990.

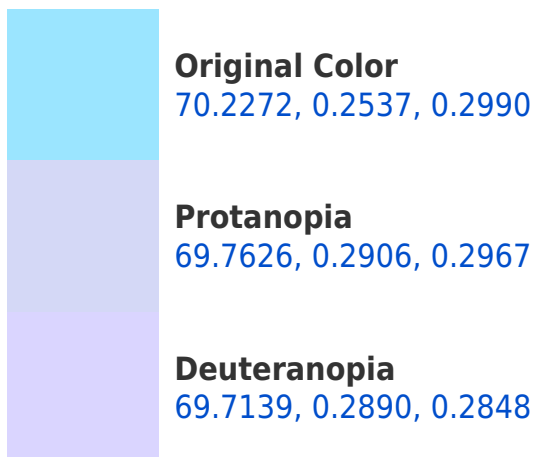


This preview shows how white text looks on a background with the Yxy color 70.2272, 0.2537, 0.2990.

# 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

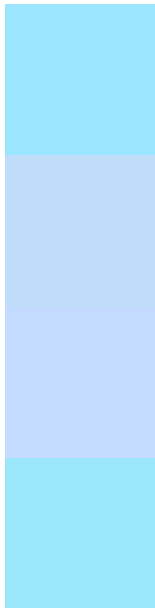




## Tritanopia

70.2055, 0.2558, 0.3068

# Trichromacy



**Original Color**

70.2272, 0.2537, 0.2990

**Protanomaly**

69.6288, 0.2757, 0.2979

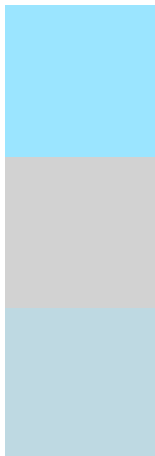
**Deuteranomaly**

69.4851, 0.2746, 0.2896

**Tritanomaly**

70.4287, 0.2553, 0.3046

# Monochromacy



**Original Color**

70.2272, 0.2537, 0.2990

**Achromatopsia**

64.4480, 0.3127, 0.3290

**Achromatomaly**

66.0638, 0.2882, 0.3185

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.2272, 0.2537, 0.2990 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(155, 229, 255)` looks like.

```
.text, #text, p{  
    color:rgb(155, 229, 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(155, 229, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(155, 229, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 70.2272, 0.2537, 0.2990 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(155, 229, 255) }
```

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

```
.border{ border-color:rgb(155, 229, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(155, 229, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(155, 229, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(155, 229, 255); box-shadow:4px 4px 4px 4px rgb(155, 229, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.2272, 0.2537, 0.2990 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(155, 229, 255) }
```

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

```
.background{ background-color: rgb(155,  
229, 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