

# Converting Colors

$Y_{xy}(72.2279, 0.2535, 0.3036)$

Have a look what the booklet for  
Yxy(72.2279, 0.2535, 0.3036)  
contains.

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# Color

**Yxy(72.2701, 0.2535, 0.3037)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99E9FF
RGB	153, 233, 255
RGB Percent	60%, 91%, 100%
CMY	0.4000, 0.0863, 0.0000
CMYK	0.40, 0.09, 0.00, 0.00
HSL	193°, 100%, 80%
HSV	193°, 40%, 100%
XYZ	60.3242, 72.2701, 105.3711
YIQ	211.5880, -54.7420, -10.1180

# Conversions

## Conversions Part 2

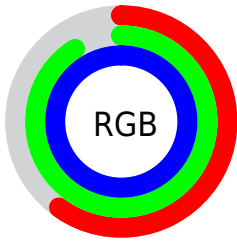
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	153, 198, 255
Decimal	10086911
CIE <sub>Lab</sub>	88.10, -19.01, -18.35
CIE <sub>LCh</sub>	88, 26.420, 223.980
Yxy	72.2701, 0.2535, 0.3037
Android (android.graphics.Color)	4288276991 (0xFF99E9FF)
YUV	211.5880, 21.4021, -51.3817
Hunter-Lab	85.0118, -22.1074, -13.9809

# Details

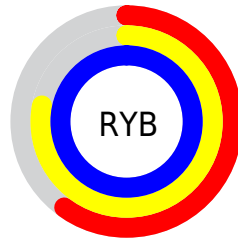
The Yxy color **72.2701, 0.2535, 0.3037** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **54.2143, 0.4050, 0.3524**, and the grayscale version is **65.4347, 0.3127, 0.3290**.

A 20% lighter version of the original color is **92.5889, 0.2866, 0.3289**, and **38.0083, 0.2404, 0.2972** is the 20% darker color. If you saturate the color by 10%, you get **66.9868, 0.2409, 0.2962**, and if you desaturate by 10%, it is **78.1861, 0.2673, 0.3108**.

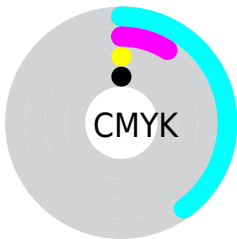
# Distribution



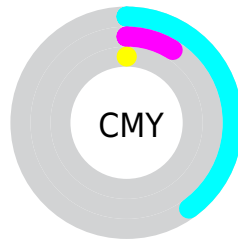
- Red (60%)
- Green (91%)
- Blue (100%)



- Red (60%)
- Yellow (78%)
- Blue (100%)



- Cyan (40%)
- Magenta (9%)
- Yellow (0%)
- Black (0%)




- Cyan (40%)
- Magenta (9%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.2701, 0.2535, 0.3037 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 72.2701, 0.2535, 0.3037 by changing the saturation by 10% instead.




 72.2701, 0.2535,  
0.3037


 72.2701, 0.2535,  
0.3037


468.4812, 0.2803,  
0.3160

 53.3793, 0.2475,  
0.3008


 122.4405, 0.2627,  
0.3080

 38.1057, 0.2403,  
0.2972


 154.4889, 0.2663,  
0.3097

 26.0647, 0.2312,  
0.2925

191.6919, 0.2694,  
0.3111

 16.8721, 0.2197,  
0.2862

234.4341, 0.2721,  
0.3124

 10.1433, 0.2044,  
0.2776

283.0997, 0.2745,  
0.3134

 5.4941, 0.1835,  
0.2649

338.0731, 0.2767,

 2.5400, 0.1535,

0.3144

0.2447

399.7388, 0.2786,  
0.3152

0.8966, 0.0922,  
0.2130

0.0000, 0.0000,  
0.0000

72.2701, 0.2535,  
0.3037

72.2701, 0.2535,  
0.3037

66.9868, 0.2409,  
0.2962

78.1861, 0.2673,  
0.3108

62.2929, 0.2299,  
0.2885

84.7583, 0.2820,  
0.3174

58.1521, 0.2207,  
0.2805

92.0190, 0.2972,  
0.3235

54.5202, 0.2134,  
0.2725

99.9958, 0.3127,  
0.3290

■ 51.3442, 0.2082, 99.9996, 0.3127,  
0.2645 0.3290

■ 48.5383, 0.2046,  
0.2566

■ 48.5378, 0.2046,  
0.2566

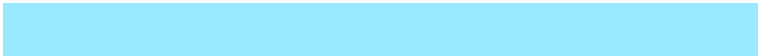
# Harmonies

## Analogous

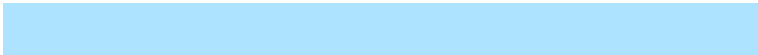
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



72.2701, 0.2650, 0.3327



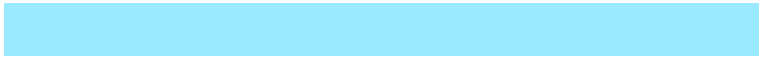
72.2701, 0.2535, 0.3037



72.2701, 0.2568, 0.2837

# Triad

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



72.2701, 0.2535, 0.3037



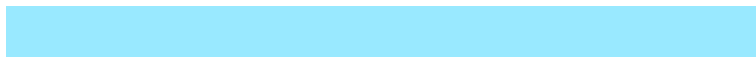
72.2701, 0.3349, 0.2987



72.2701, 0.3507, 0.3852

# Complementary

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



72.2701, 0.2535, 0.3037



54.2143, 0.4050, 0.3524

# 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.



72.2701, 0.3713, 0.3722



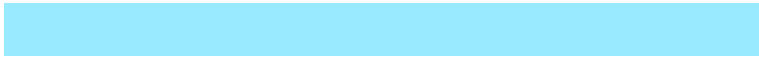
72.2701, 0.2535, 0.3037



72.2701, 0.3623, 0.3226

# Square

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



72.2701, 0.2535, 0.3037



72.2701, 0.3024, 0.2821



72.2701, 0.3758, 0.3491

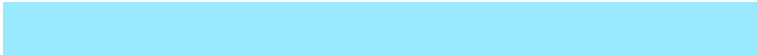


72.2701, 0.3205, 0.3821



# Rectangle

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



72.2701, 0.2535, 0.3037



72.2701, 0.2669, 0.2774



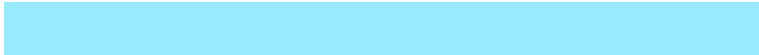
72.2701, 0.3758, 0.3491



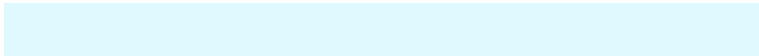
72.2701, 0.3590, 0.3824

# Sweetspot

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



72.2729, 0.2535, 0.3037



90.5142, 0.2941, 0.3223



81.3209, 0.2968, 0.4274



19.1661, 0.2921, 0.3215



0.0000, 0.0000, 0.0000

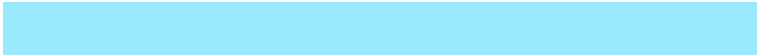


21.4041, 0.3127, 0.3290



# Same Dimension

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



72.2729, 0.2535, 0.3037



67.9984, 0.2433, 0.2978



48.1065, 0.2440, 0.2433



19.7776, 0.2980, 0.3238



25.5915, 0.2050, 0.2579



2.6491, 0.2075, 0.2669



# Inverse Universe

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



49.9250, 0.3359, 0.2491



43.5613, 0.3420, 0.2340



77.0830, 0.3842, 0.4016



18.2294, 0.3171, 0.3105



13.3114, 0.3845, 0.1892

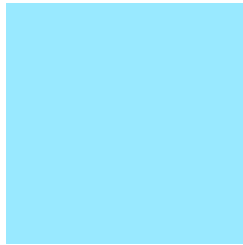


1.3120, 0.3757, 0.1844



# Previews

## White Background



This preview shows how the Yxy color 72.2701, 0.2535, 0.3037 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

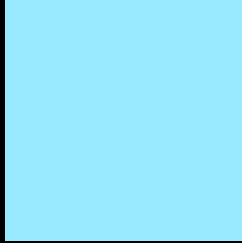
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 72.2701, 0.2535, 0.3037 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 72.2701, 0.2535, 0.3037**

## **Background**



This preview shows how black text looks on a background with the Yxy color 72.2701, 0.2535, 0.3037.

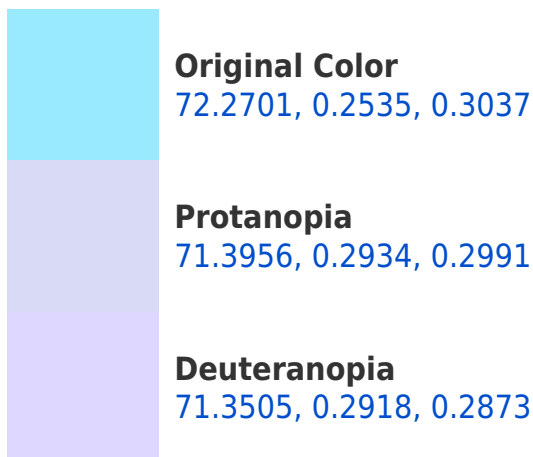


This preview shows how white text looks on a background with the Yxy color 72.2701, 0.2535, 0.3037.

# 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

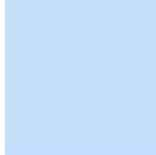
71.9815, 0.2544, 0.3070

# Trichromacy



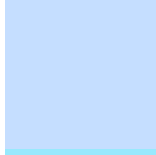
## Original Color

72.2701, 0.2535, 0.3037



## Protanomaly

70.9524, 0.2771, 0.3003



## Deuteranomaly

71.3329, 0.2761, 0.2931



## Tritanomaly

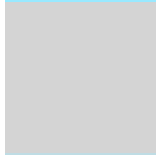
72.0451, 0.2540, 0.3059

# Monochromacy



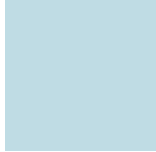
## Original Color

72.2701, 0.2535, 0.3037



## Achromatopsia

65.8375, 0.3127, 0.3290



## Achromatomaly

67.8642, 0.2878, 0.3198

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.2701, 0.2535, 0.3037 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(153, 233, 255)` looks like.

```
.text, #text, p{  
    color:rgb(153, 233, 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(153, 233, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 233, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 72.2701, 0.2535, 0.3037 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(153, 233, 255) }
```

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

```
.border{ border-color:rgb(153, 233, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 233, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 233, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 233, 255);  
box-shadow:4px 4px 4px 4px rgb(153, 233,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.2701, 0.2535, 0.3037 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 233, 255) }
```

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

```
.background{ background-color: rgb(153,  
233, 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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