

# Converting Colors

$Y_{xy}(69.1987, 0.2475, 0.2640)$

Have a look what the booklet for  
Yxy(69.1987, 0.2475, 0.2640)  
contains.

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# Color

**Yxy(67.4790, 0.2602, 0.2903)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AADDFF
RGB	170, 221, 255
RGB Percent	67%, 87%, 100%
CMY	0.3335, 0.1333, 0.0000
CMYK	0.33, 0.13, 0.00, 0.00
HSL	204°, 100%, 83%
HSV	204°, 33%, 100%
XYZ	60.4824, 67.4790, 104.4844
YIQ	209.6270, -41.3100, -0.2380

# Conversions

## Conversions Part 2

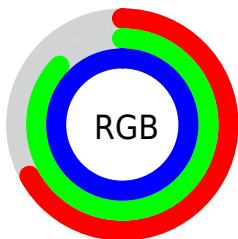
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	170, 202, 255
Decimal	11197951
CIE Lab	85.75, -8.49, -21.85
CIE LCh	86, 23.440, 248.757
Yxy	67.4790, 0.2602, 0.2903
Android (android.graphics.Color)	4289388031 (0xFFAADDFF)
YUV	209.6270, 22.3689, -34.7529
Hunter-Lab	82.1456, -12.3283, -17.9115

# Details

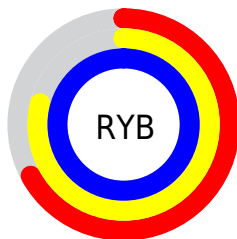
The Yxy color **67.4790, 0.2602, 0.2903** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **67.3212, 0.3794, 0.3645**, and the grayscale version is **64.0563, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.0709, 0.2958, 0.3290**, and **34.9945, 0.2483, 0.2812** is the 20% darker color. If you saturate the color by 10%, you get **59.6878, 0.2449, 0.2764**, and if you desaturate by 10%, it is **76.1471, 0.2760, 0.3032**.

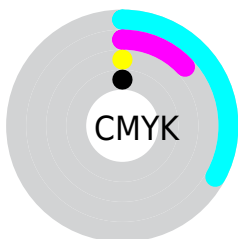
# Distribution



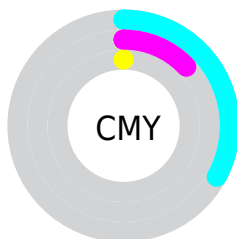
- Red (67%)
- Green (87%)
- Blue (100%)



- Red (67%)
- Yellow (79%)
- Blue (100%)



- Cyan (33%)
- Magenta (13%)
- Yellow (0%)
- Black (0%)



- Cyan (33%)
- Magenta (13%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.4790, 0.2602, 0.2903 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 67.4790, 0.2602, 0.2903 by changing the saturation by 10% instead.



■ 67.4790, 0.2602,  
0.2903

■ 67.4790, 0.2602,  
0.2903

451.6479, 0.2843,  
0.3086

■ 49.4740, 0.2548,  
0.2861

■ 115.6065, 0.2685,  
0.2967

■ 34.9956, 0.2481,  
0.2808

146.4978, 0.2718,  
0.2992

■ 23.6595, 0.2397,  
0.2741

182.4533, 0.2746,  
0.3013

■ 15.0812, 0.2288,  
0.2654

223.8574, 0.2770,  
0.3031

■ 8.8764, 0.2144,  
0.2534

271.0945, 0.2792,  
0.3047

■ 4.6607, 0.1942,  
0.2362

324.5490, 0.2811,

■ 2.0496, 0.1645,

0.3062

0.2098

384.6054, 0.2828,  
0.3074

0.6360, 0.1025,  
0.1641

0.0000, 0.0000,  
0.0000

67.4790, 0.2602,  
0.2903

67.4790, 0.2602,  
0.2903

59.6878, 0.2449,  
0.2764

76.1471, 0.2760,  
0.3032

52.7371, 0.2305,  
0.2617

85.7286, 0.2919,  
0.3150

46.5854, 0.2174,  
0.2463

96.2557, 0.3076,  
0.3257

41.1869, 0.2060,  
0.2306

100.0000, 0.3127,  
0.3290

■ 36.4893, 0.1968,  
0.2149

■ 32.4304, 0.1897,  
0.1996

■ 30.0282, 0.1860,  
0.1897

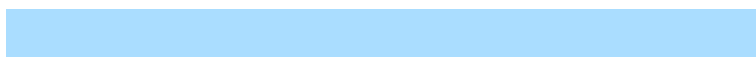
# Harmonies

## Analogous

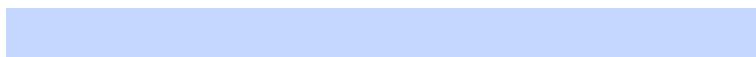
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



67.4790, 0.2596, 0.3104



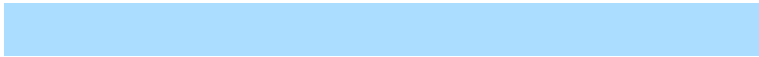
67.4790, 0.2602, 0.2903



67.4790, 0.2741, 0.2814

# Triad

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



67.4790, 0.2602, 0.2903



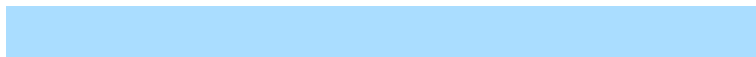
67.4790, 0.3540, 0.3192



67.4790, 0.3250, 0.3787

# Complementary

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



67.4790, 0.2602, 0.2903



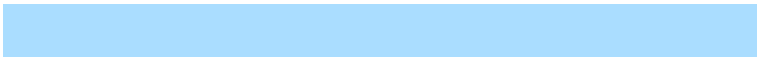
67.3212, 0.3794, 0.3645

# 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.



67.4790, 0.3514, 0.3789



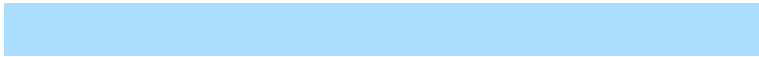
67.4790, 0.2602, 0.2903



67.4790, 0.3689, 0.3434

# Square

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



67.4790, 0.2602, 0.2903



67.4790, 0.3278, 0.2981



67.4790, 0.3678, 0.3653

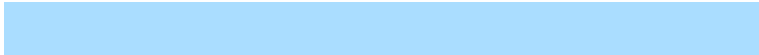


67.4790, 0.2961, 0.3632



# Rectangle

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



67.4790, 0.2602, 0.2903



67.4790, 0.2894, 0.2822



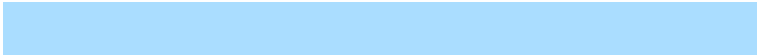
67.4790, 0.3678, 0.3653



67.4790, 0.3344, 0.3805

# Sweetspot

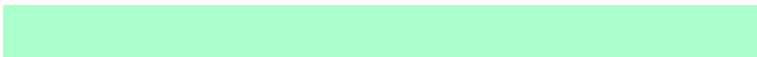
The Sweet Spot groups the original color and five complimentary colors.



67.4785, 0.2602, 0.2904



89.1490, 0.2972, 0.3187



84.3518, 0.2911, 0.3895



18.7717, 0.2950, 0.3172



0.0000, 0.0000, 0.0000

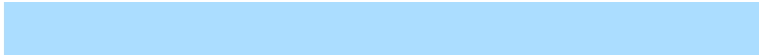


21.4041, 0.3127, 0.3290

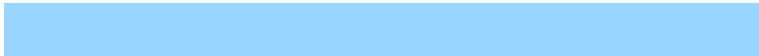


# Same Dimension

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



67.4785, 0.2602, 0.2904



62.2027, 0.2500, 0.2812



48.3542, 0.2539, 0.2411



19.1918, 0.2979, 0.3193



15.9906, 0.1867, 0.1921



1.7709, 0.1915, 0.2093



# Inverse Universe

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



55.2138, 0.3445, 0.2770



48.9093, 0.3531, 0.2665



89.5127, 0.3661, 0.4038



18.1702, 0.3200, 0.3148



12.3422, 0.4543, 0.2276

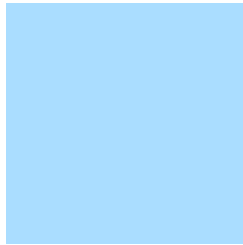


1.2233, 0.4349, 0.2169



# Previews

## White Background



This preview shows how the Yxy color 67.4790, 0.2602, 0.2903 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

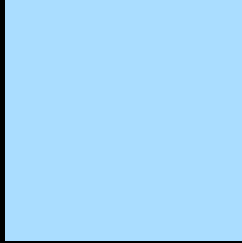
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 67.4790, 0.2602, 0.2903 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

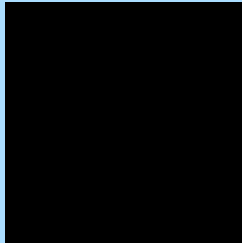
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

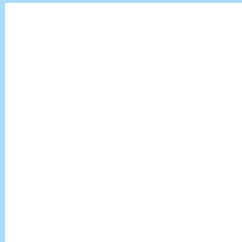
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 67.4790, 0.2602, 0.2903**

## Background



This preview shows how black text looks on a background with the Yxy color 67.4790, 0.2602, 0.2903.



This preview shows how white text looks on a background with the Yxy color 67.4790, 0.2602, 0.2903.

# 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

67.4790, 0.2602, 0.2903

### Protanopia

67.1919, 0.2853, 0.2888

### Deuteranopia

66.9671, 0.2855, 0.2800



## Tritanopia

67.3417, 0.2661, 0.3079

# Trichromacy



**Original Color**

67.4790, 0.2602, 0.2903

**Protanomaly**

67.0352, 0.2759, 0.2892

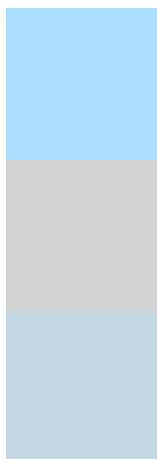
**Deuteranomaly**

66.6788, 0.2753, 0.2830

**Tritanomaly**

67.2212, 0.2639, 0.3012

# Monochromacy



**Original Color**

67.4790, 0.2602, 0.2903

**Achromatopsia**

64.4480, 0.3127, 0.3290

**Achromatomaly**

65.1862, 0.2915, 0.3152

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 67.4790, 0.2602, 0.2903 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(170, 221, 255)` looks like.

```
.text, #text, p{  
    color:rgb(170, 221, 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(170, 221, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 221, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 67.4790, 0.2602, 0.2903 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(170, 221, 255) }
```

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

```
.border{ border-color:rgb(170, 221, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 221, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(170, 221, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(170, 221, 255); box-shadow:4px 4px 4px 4px rgb(170, 221, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.4790, 0.2602, 0.2903 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 221, 255) }
```

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

```
.background{ background-color: rgb(170,  
221, 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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