

# Converting Colors

$Y_{xy}(73.1485, 0.2139, 0.2104)$

Have a look what the booklet for  
Yxy(73.1485, 0.2139, 0.2104)  
contains.

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# Color

**Yxy(66.1063, 0.2482, 0.2915)**

# Conversions

## Conversions Part 1

Format	Color
Hex	92DFFF
RGB	146, 223, 255
RGB Percent	57%, 87%, 100%
CMY	0.4275, 0.1255, 0.0001
CMYK	0.43, 0.13, 0.00, 0.00
HSL	198°, 100%, 79%
HSV	198°, 43%, 100%
XYZ	56.2867, 66.1063, 104.3867
YIQ	203.6250, -56.1640, -6.3720

# Conversions

## Conversions Part 2

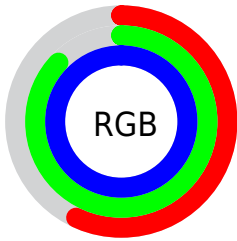
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	146, 191, 255
Decimal	9625599
CIE Lab	85.05, -15.68, -22.98
CIE LCh	85, 27.824, 235.693
Yxy	66.1063, 0.2482, 0.2915
Android (android.graphics.Color)	4287815679 (0xFF92DFFF)
YUV	203.6250, 25.3279, -50.5371
Hunter-Lab	81.3058, -18.7123, -19.2071

# Details

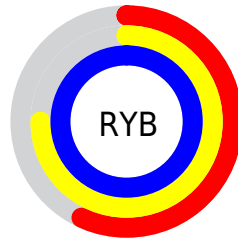
The Yxy color **66.1063, 0.2482, 0.2915** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **55.1563, 0.4100, 0.3628**, and the grayscale version is **59.9972, 0.3127, 0.3290**.

A 20% lighter version of the original color is **91.5774, 0.2827, 0.3289**, and **34.1572, 0.2334, 0.2825** is the 20% darker color. If you saturate the color by 10%, you get **60.1178, 0.2351, 0.2810**, and if you desaturate by 10%, it is **72.7975, 0.2625, 0.3015**.

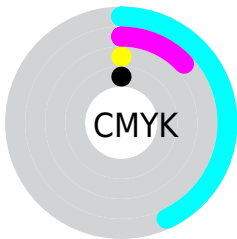
# Distribution



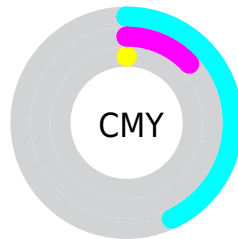
- Red (57%)
- Green (87%)
- Blue (100%)



- Red (57%)
- Yellow (75%)
- Blue (100%)



- Cyan (43%)
- Magenta (13%)
- Yellow (0%)
- Black (0%)




- Cyan (43%)
- Magenta (13%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 66.1063, 0.2482, 0.2915 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 66.1063, 0.2482, 0.2915 by changing the saturation by 10% instead.





 66.1063, 0.2482,  
0.2915


 66.1063, 0.2482,  
0.2915


446.7570, 0.2778,  
0.3096

 48.3587, 0.2416,  
0.2872


 113.6389, 0.2584,  
0.2979

 34.1110, 0.2334,  
0.2819


 144.1927, 0.2623,  
0.3003

 22.9789, 0.2233,  
0.2751


179.7840, 0.2658,  
0.3024

 14.5779, 0.2103,  
0.2660

220.7972, 0.2688,  
0.3043

 8.5237, 0.1930,  
0.2535

267.6167, 0.2714,  
0.3058

 4.4318, 0.1693,  
0.2353

320.6269, 0.2738,

 1.9179, 0.1353,

0.3072

0.2069

380.2122, 0.2759,  
0.3085

■ 0.5591, 0.0419,  
0.1578

■ 0.0000, 0.0000,  
0.0000

■ 66.1063, 0.2482,  
0.2915

■ 66.1063, 0.2482,  
0.2915

■ 60.1178, 0.2351,  
0.2810

■ 72.7975, 0.2625,  
0.3015

■ 54.7871, 0.2234,  
0.2700

■ 80.2178, 0.2775,  
0.3107

■ 50.0750, 0.2136,  
0.2588

■ 88.4012, 0.2929,  
0.3193

■ 45.9338, 0.2057,  
0.2475

■ 97.3771, 0.3085,  
0.3270

■ 42.3060, 0.1999,  
0.2364

99.9990, 0.3127,  
0.3290

■ 39.9364, 0.1968,  
0.2284

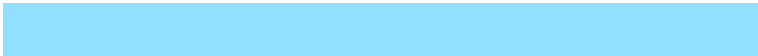
# Harmonies

## Analogous

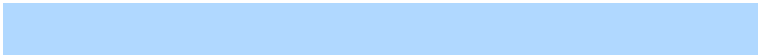
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



66.1063, 0.2545, 0.3198



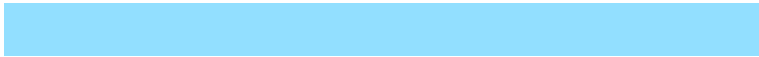
66.1063, 0.2482, 0.2915



66.1063, 0.2579, 0.2752

# Triad

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



66.1063, 0.2482, 0.2915



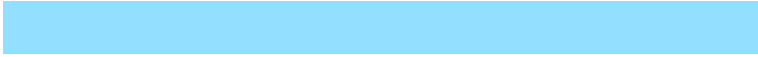
66.1063, 0.3496, 0.3056



66.1063, 0.3417, 0.3911

# Complementary

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



66.1063, 0.2482, 0.2915



55.1563, 0.4100, 0.3628

# 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.



66.1063, 0.3692, 0.3830



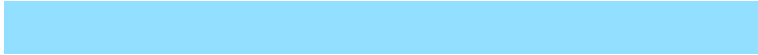
66.1063, 0.2482, 0.2915



66.1063, 0.3745, 0.3331

# Square

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



66.1063, 0.2482, 0.2915



66.1063, 0.3151, 0.2842



66.1063, 0.3817, 0.3611

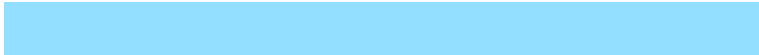


66.1063, 0.3074, 0.3805



# Rectangle

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



66.1063, 0.2482, 0.2915



66.1063, 0.2724, 0.2723



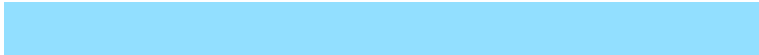
66.1063, 0.3817, 0.3611



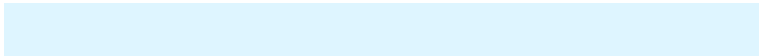
66.1063, 0.3521, 0.3903

# Sweetspot

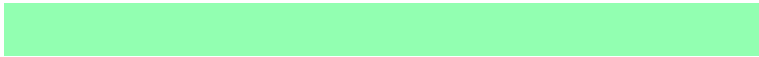
The Sweet Spot groups the original color and five complimentary colors.



66.1088, 0.2482, 0.2915



88.1976, 0.2925, 0.3191



80.7887, 0.2915, 0.4241



18.4778, 0.2891, 0.3172



0.0000, 0.0000, 0.0000

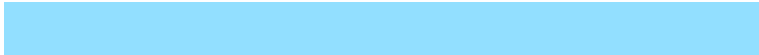


21.4041, 0.3127, 0.3290

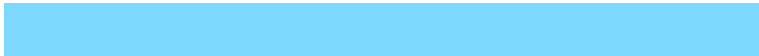


# Same Dimension

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



66.1088, 0.2482, 0.2915



61.1247, 0.2373, 0.2829



41.9283, 0.2370, 0.2248



19.5285, 0.2980, 0.3219



21.1417, 0.1973, 0.2303



2.2478, 0.2008, 0.2429



# Inverse Universe

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



47.1380, 0.3458, 0.2514



40.9165, 0.3546, 0.2376



80.6898, 0.3859, 0.4147



18.2042, 0.3183, 0.3123



12.8622, 0.4124, 0.2045

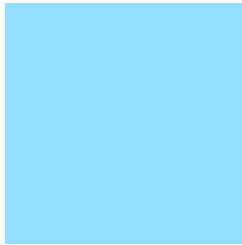


1.2715, 0.3994, 0.1974



# Previews

## White Background



This preview shows how the Yxy color 66.1063, 0.2482, 0.2915 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

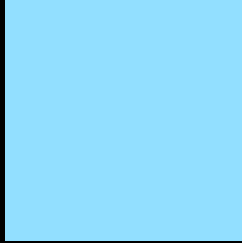
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 66.1063, 0.2482, 0.2915 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

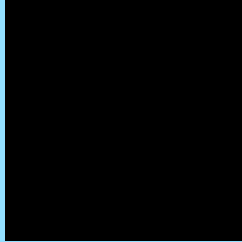
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 66.1063, 0.2482, 0.2915**

## **Background**



This preview shows how black text looks on a background with the Yxy color 66.1063, 0.2482, 0.2915.



This preview shows how white text looks on a background with the Yxy color 66.1063, 0.2482, 0.2915.

# 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

66.1063, 0.2482, 0.2915

### Protanopia

65.7261, 0.2857, 0.2895

### Deuteranopia

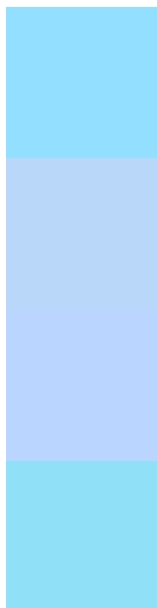
65.4010, 0.2827, 0.2774



## Tritanopia

66.1611, 0.2528, 0.3073

# Trichromacy



## Original Color

66.1063, 0.2482, 0.2915

## Protanomaly

65.6308, 0.2708, 0.2906

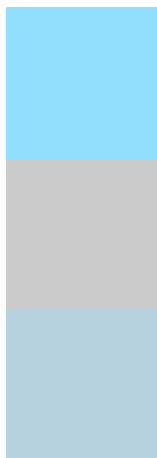
## Deuteranomaly

65.2476, 0.2685, 0.2821

## Tritanomaly

65.9560, 0.2512, 0.3015

# Monochromacy



## Original Color

66.1063, 0.2482, 0.2915

## Achromatopsia

60.3827, 0.3127, 0.3290

## Achromatomaly

61.9835, 0.2851, 0.3147

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 66.1063, 0.2482, 0.2915 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(146, 223, 255)` looks like.

```
.text, #text, p{  
    color:rgb(146, 223, 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(146, 223, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(146, 223, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 66.1063, 0.2482, 0.2915 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(146, 223, 255) }
```

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

```
.border{ border-color:rgb(146, 223, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(146, 223, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(146, 223, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(146, 223, 255); box-shadow:4px 4px 4px 4px rgb(146, 223, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 66.1063, 0.2482, 0.2915 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(146, 223, 255) }
```

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

```
.background{ background-color: rgb(146,  
223, 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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