

# Converting Colors

$Yxy(78.9950, 0.2556, 0.3170)$

Have a look what the booklet for  
Yxy(78.9950, 0.2556, 0.3170)  
contains.

<b>Yxy(78.6937, 0.2555, 0.3164)</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(78.6937, 0.2555, 0.3164)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99F4FF
RGB	153, 244, 255
RGB Percent	60%, 96%, 100%
CMY	0.3998, 0.0432, 0.0000
CMYK	0.40, 0.04, 0.00, 0.00
HSL	186°, 100%, 80%
HSV	186°, 40%, 100%
XYZ	63.5469, 78.6937, 106.4753
YIQ	218.0450, -57.7670, -15.8710

# Conversions

## Conversions Part 2

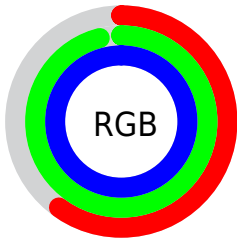
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	153, 201, 255
Decimal	10089727
CIE Lab	91.10, -24.41, -13.87
CIE LCh	91, 28.074, 209.601
Yxy	78.6937, 0.2555, 0.3164
Android (android.graphics.Color)	4288279807 (0xFF99F4FF)
YUV	218.0450, 18.2188, -57.0445
Hunter-Lab	88.7095, -27.3733, -9.0673

# Details

The Yxy color **78.6937, 0.2555, 0.3164** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **50.1288, 0.4099, 0.3409**, and the grayscale version is **70.0517, 0.3127, 0.3290**.

A 20% lighter version of the original color is **92.5889, 0.2866, 0.3289**, and **42.4766, 0.2432, 0.3140** is the 20% darker color. If you saturate the color by 10%, you get **74.8279, 0.2442, 0.3128**, and if you desaturate by 10%, it is **83.1162, 0.2683, 0.3199**.

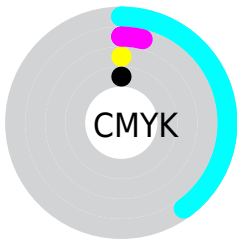
# Distribution



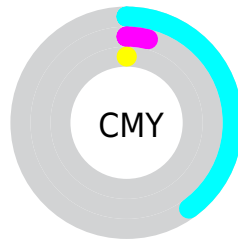
- Red (60%)
- Green (96%)
- Blue (100%)



- Red (60%)
- Yellow (79%)
- Blue (100%)



- Cyan (40%)
- Magenta (4%)
- Yellow (0%)
- Black (0%)



- Cyan (40%)
- Magenta (4%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.6937, 0.2555, 0.3164 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 78.6937, 0.2555, 0.3164 by changing the saturation by 10% instead.




 78.6937, 0.2555,  
0.3164


 78.6937, 0.2555,  
0.3164


490.5195, 0.2811,  
0.3227

 58.6440, 0.2499,  
0.3148


 131.5276, 0.2642,  
0.3187

 42.3266, 0.2431,  
0.3129

 165.0805, 0.2676,  
0.3195

 29.3571, 0.2346,  
0.3103


203.9034, 0.2706,  
0.3203

 19.3511, 0.2239,  
0.3069

248.3805, 0.2732,  
0.3209

 11.9243, 0.2098,  
0.3020

298.8962, 0.2755,  
0.3215

 6.6921, 0.1906,  
0.2946

355.8351, 0.2776,

 3.2703, 0.1633,

0.3219

419.5814, 0.2794,  
0.3224

0.2825

1.2744, 0.1173,  
0.2616

0.1213, 0.0000,  
0.0986

78.6937, 0.2555,  
0.3164

78.6937, 0.2555,  
0.3164

74.8279, 0.2442,  
0.3128

83.1162, 0.2683,  
0.3199

71.4820, 0.2346,  
0.3091

88.1239, 0.2824,  
0.3232

68.6187, 0.2269,  
0.3053

93.7464, 0.2973,  
0.3262

66.1943, 0.2211,  
0.3015

100.0000, 0.3127,  
0.3290

■ 64.1569, 0.2173,  
0.2977

■ 62.4216, 0.2150,  
0.2940

■ 62.4189, 0.2150,  
0.2940

# Harmonies

## Analogous

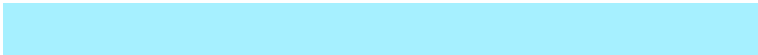
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



78.6937, 0.2741, 0.3481



78.6937, 0.2555, 0.3164



78.6937, 0.2515, 0.2906

# Triad

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



78.6937, 0.2555, 0.3164



78.6937, 0.3195, 0.2884



78.6937, 0.3639, 0.3823

# Complementary

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



78.6937, 0.2555, 0.3164



50.1288, 0.4099, 0.3409

# 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.



78.6937, 0.3778, 0.3630



78.6937, 0.2555, 0.3164



78.6937, 0.3516, 0.3099

# Square

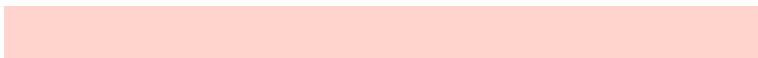
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



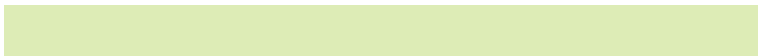
78.6937, 0.2555, 0.3164



78.6937, 0.2870, 0.2763



78.6937, 0.3734, 0.3366



78.6937, 0.3363, 0.3878

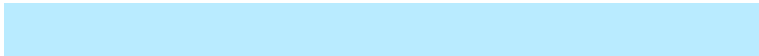


# Rectangle

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



78.6937, 0.2555, 0.3164



78.6937, 0.2573, 0.2798



78.6937, 0.3734, 0.3366



78.6937, 0.3703, 0.3771

# Sweetspot

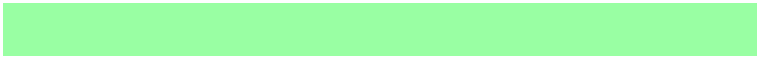
The Sweet Spot groups the original color and five complimentary colors.



78.6946, 0.2555, 0.3164



92.5620, 0.2942, 0.3256



80.9492, 0.3019, 0.4401



19.6508, 0.2922, 0.3252



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.



78.6946, 0.2555, 0.3164



75.5525, 0.2463, 0.3135



52.5019, 0.2460, 0.2561



20.1267, 0.2980, 0.3264



32.7502, 0.2152, 0.2946



3.2806, 0.2164, 0.2989



# Inverse Universe

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



50.5873, 0.3264, 0.2394



44.3238, 0.3298, 0.2229



71.7641, 0.3882, 0.3919



18.2646, 0.3155, 0.3081



14.0341, 0.3502, 0.1703

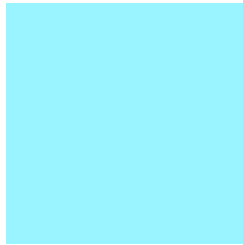


1.3757, 0.3464, 0.1682



# Previews

## White Background



This preview shows how the Yxy color 78.6937, 0.2555, 0.3164 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

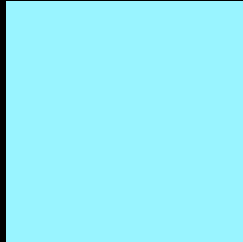
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 78.6937, 0.2555, 0.3164 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 78.6937, 0.2555, 0.3164**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.6937, 0.2555, 0.3164.

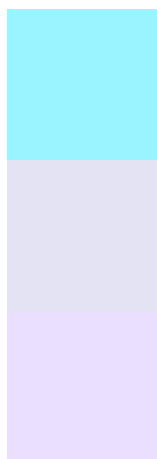


This preview shows how white text looks on a background with the Yxy color 78.6937, 0.2555, 0.3164.

# 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

78.6937, 0.2555, 0.3164

### Protanopia

77.9638, 0.3027, 0.3114

### Deuteranopia

77.6575, 0.3006, 0.2966



## Tritanopia

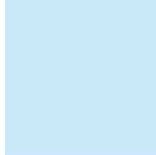
78.6541, 0.2656, 0.3124

# Trichromacy



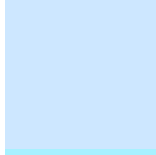
## Original Color

78.6937, 0.2555, 0.3164



## Protanomaly

77.4726, 0.2833, 0.3128



## Deuteranomaly

77.3510, 0.2817, 0.3034



## Tritanomaly

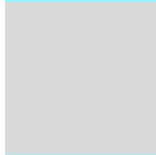
78.3461, 0.2617, 0.3133

# Monochromacy



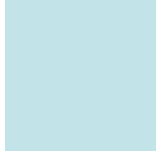
## Original Color

78.6937, 0.2555, 0.3164



## Achromatopsia

70.1102, 0.3127, 0.3290



## Achromatomaly

72.1770, 0.2883, 0.3244

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.6937, 0.2555, 0.3164 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, 244, 255)` looks like.

```
.text, #text, p{  
    color:rgb(153, 244, 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, 244, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 244, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 78.6937, 0.2555, 0.3164 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, 244, 255) }
```

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

```
.border{ border-color:rgb(153, 244, 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, 244, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 244, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 244, 255);  
box-shadow:4px 4px 4px 4px rgb(153, 244,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.6937, 0.2555, 0.3164 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 244, 255) }
```

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

```
.background{ background-color: rgb(153,  
244, 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