

# Converting Colors

$Yxy(70.5979, 0.3095, 0.5012)$

Have a look what the booklet for  
Yxy(70.5979, 0.3095, 0.5012)  
contains.

<b>Yxy(70.6122, 0.3095, 0.5012)</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(70.6122, 0.3095, 0.5012)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7AF570
RGB	122, 245, 112
RGB Percent	48%, 96%, 44%
CMY	0.5216, 0.0392, 0.5606
CMYK	0.50, 0.00, 0.54, 0.04
HSL	116°, 87%, 70%
HSV	116°, 54%, 96%
XYZ	43.6043, 70.6122, 26.6698
YIQ	193.0610, -30.6150, -67.4390

# Conversions

## Conversions Part 2

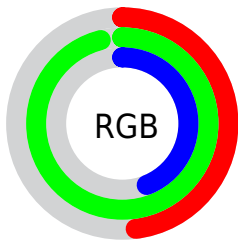
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">112, 245, 235</a>
Decimal	<a href="#">8058224</a>
CIELab	<a href="#">87.30, -59.62, 52.96</a>
CIElCh	<a href="#">87, 79.743, 138.383</a>
Yxy	<a href="#">70.6122, 0.3095, 0.5012</a>
Android (android.graphics.Color)	<a href="#">4286248304 (0xFF7AF570)</a>
YUV	<a href="#">193.0610, -39.9631, -62.3205</a>
Hunter-Lab	<a href="#">84.0311, -54.4295, 40.0043</a>

# Details

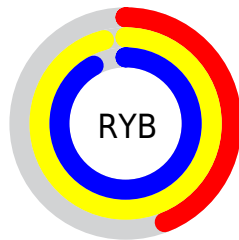
The Yxy color **70.6122, 0.3095, 0.5012** is a light color, and the websafe version is hex **99FF66**. A complement of this color would be **35.8579, 0.3095, 0.1962**, and the grayscale version is **53.6222, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.2551, 0.3167, 0.4302**, and **37.1715, 0.3024, 0.5486** is the 20% darker color. If you saturate the color by 10%, you get **68.6755, 0.3079, 0.5342**, and if you desaturate by 10%, it is **73.0891, 0.3108, 0.4659**.

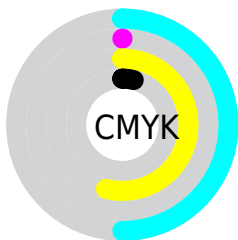
# Distribution



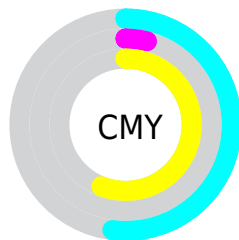
- Red (48%)
- Green (96%)
- Blue (44%)



- Red (44%)
- Yellow (96%)
- Blue (92%)



- Cyan (50%)
- Magenta (0%)
- Yellow (54%)
- Black (4%)




- Cyan (52%)
- Magenta (4%)
- Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.6122, 0.3095, 0.5012 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 70.6122, 0.3095, 0.5012 by changing the saturation by 10% instead.





 70.6122, 0.3095,  
0.5012

 70.6122, 0.3095,  
0.5012


462.6966, 0.3158,  
0.4152

 52.0258, 0.3066,  
0.5219


 120.0814, 0.3129,  
0.4703

 37.0256, 0.3020,  
0.5479


 151.7329, 0.3138,  
0.4586

 25.2273, 0.2949,  
0.5811


 188.5083, 0.3145,  
0.4486

 16.2465, 0.2832,  
0.6242

230.7919, 0.3150,  
0.4401

 9.6988, 0.2629,  
0.6813

278.9682, 0.3153,  
0.4326

 5.1997, 0.2305,  
0.7695


333.4215, 0.3155,


 2.3649, 0.1336,

0.4261


0.8664


394.5361, 0.3157,  
0.4203


 0.8077, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 70.6122, 0.3095,  
0.5012


 70.6122, 0.3095,  
0.5012

 68.6755, 0.3079,  
0.5342


 73.0891, 0.3108,  
0.4659


 67.2304, 0.3060,  
0.5623


 76.1328, 0.3117,  
0.4307

 66.2349, 0.3040,  
0.5830


 79.7787, 0.3123,  
0.3974

 65.6355, 0.3021,  
0.5952

 84.0569, 0.3126,  
0.3668

 65.4391, 0.3012,  
0.5990

 88.9954, 0.3127,  
0.3396

 93.7870, 0.3132,  
0.3194

# Harmonies

## Analogous

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



70.6122, 0.3981, 0.4986



70.6122, 0.3095, 0.5012



70.6122, 0.2265, 0.4250

# Triad

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



70.6122, 0.3095, 0.5012



70.6122, 0.1672, 0.1964



70.6122, 0.4739, 0.3114

# Complementary

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



70.6122, 0.3095, 0.5012



35.8579, 0.3095, 0.1962

# Split Complementary

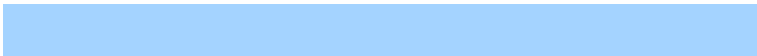
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



70.6122, 0.3904, 0.2529



70.6122, 0.3095, 0.5012



70.6122, 0.2126, 0.1897

# Square

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



70.6122, 0.3095, 0.5012



70.6122, 0.1533, 0.2359



70.6122, 0.2909, 0.2099



70.6122, 0.5021, 0.3771



# Rectangle

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



70.6122, 0.3095, 0.5012



70.6122, 0.1861, 0.3514



70.6122, 0.2909, 0.2099



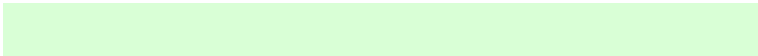
70.6122, 0.4508, 0.2907

# Sweetspot

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



70.6152, 0.3095, 0.5012



91.1764, 0.3126, 0.3720



79.3855, 0.3969, 0.4502



19.3018, 0.3125, 0.3781



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.



70.6152, 0.3095, 0.5012



75.0510, 0.3077, 0.5369



71.5604, 0.2792, 0.4309



18.5313, 0.3127, 0.3534



35.2740, 0.3016, 0.5987



3.1204, 0.3056, 0.5956



# Inverse Universe

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



35.8579, 0.3095, 0.1962



33.3864, 0.3080, 0.1759



34.7095, 0.3769, 0.2482



16.7014, 0.3126, 0.3056



12.3450, 0.3022, 0.1438

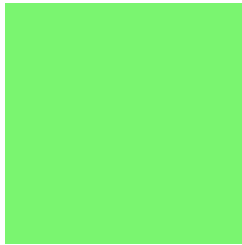


1.1035, 0.3047, 0.1452



# Previews

## White Background



This preview shows how the Yxy color 70.6122, 0.3095, 0.5012 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 70.6122, 0.3095, 0.5012 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

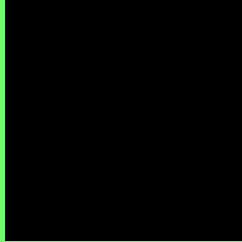
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

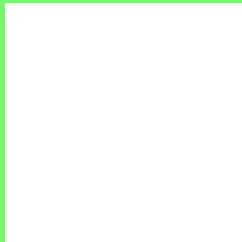
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 70.6122, 0.3095, 0.5012**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.6122, 0.3095, 0.5012.

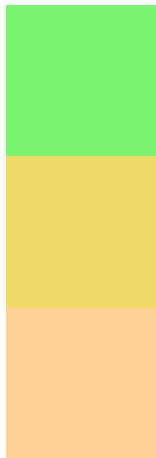


This preview shows how white text looks on a background with the Yxy color 70.6122, 0.3095, 0.5012.

# 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

70.6122, 0.3095, 0.5012

### Protanopia

69.3058, 0.4081, 0.4451

### Deuteranopia

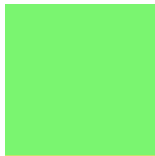
69.0629, 0.3926, 0.3899



## Tritanopia

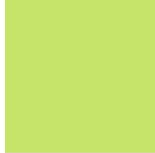
69.9172, 0.2543, 0.3067

# Trichromacy



## Original Color

70.6122, 0.3095, 0.5012



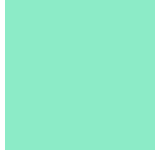
## Protanomaly

67.9845, 0.3673, 0.4679



## Deuteranomaly

67.2855, 0.3588, 0.4289



## Tritanomaly

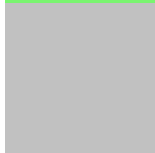
69.1156, 0.2753, 0.3743

# Monochromacy



## Original Color

70.6122, 0.3095, 0.5012



## Achromatopsia

53.3276, 0.3127, 0.3290



## Achromatomaly

57.9828, 0.3119, 0.3917

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.6122, 0.3095, 0.5012 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(122, 245, 112)` looks like.

```
.text, #text, p{  
    color:rgb(122, 245, 112)  
}
```

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(122, 245, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 245, 112) }
```

## Border

The CSS property to change the border of an element to Yxy 70.6122, 0.3095, 0.5012 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(122, 245, 112) }
```

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

```
.border{ border-color:rgb(122, 245, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(122, 245, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(122, 245, 112); -webkit-box-shadow:4px 4px 4px 4px rgb(122, 245, 112); box-shadow:4px 4px 4px 4px rgb(122, 245, 112) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.6122, 0.3095, 0.5012 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(122, 245, 112) }
```

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

```
.background{ background-color: rgb(122,  
245, 112) }
```

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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