

# Converting Colors

$Y_{xy}(73.6743, 0.2801, 0.5063)$

Have a look what the booklet for  
Yxy(73.6743, 0.2801, 0.5063)  
contains.

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# Color

**Yxy(73.6790, 0.2800, 0.5061)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33FF7C
RGB	51, 255, 124
RGB Percent	20%, 100%, 49%
CMY	0.8000, 0.0000, 0.5137
CMYK	0.80, 0.00, 0.51, 0.00
HSL	141°, 100%, 60%
HSV	141°, 80%, 100%
XYZ	40.7629, 73.6790, 31.1400
YIQ	179.0700, -79.5330, -83.9890

# Conversions

## Conversions Part 2

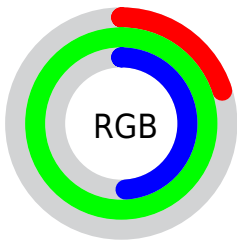
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 201, 255
Decimal	3407740
CIELab	88.77, -74.54, 48.87
CIELCh	89, 89.128, 146.749
Yxy	73.6790, 0.2800, 0.5061
Android (android.graphics.Color)	4281597820 (0xFF33FF7C)
YUV	179.0700, -27.1495, -112.3174
Hunter-Lab	85.8365, -65.4459, 38.5762

# Details

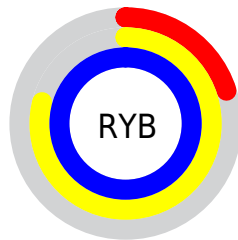
The Yxy color **73.6790, 0.2800, 0.5061** is a dark color, and the websafe version is hex **33FF66**. The color can be described as middle washed spring green. A complement of this color would be **27.0053, 0.4080, 0.2166**, and the grayscale version is **45.2975, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.6000, 0.2832, 0.4233**, and **40.3874, 0.2847, 0.5448** is the 20% darker color. If you saturate the color by 10%, you get **72.8078, 0.2821, 0.5285**, and if you desaturate by 10%, it is **74.9816, 0.2797, 0.4817**.

# Distribution



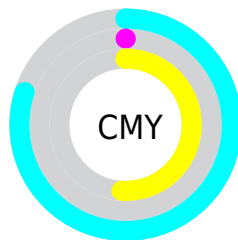
- Red (20%)
- Green (100%)
- Blue (49%)



- Red (20%)
- Yellow (79%)
- Blue (100%)



- Cyan (80%)
- Magenta (0%)
- Yellow (51%)
- Black (0%)




- Cyan (80%)
- Magenta (0%)
- Yellow (51%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 73.6790, 0.2800, 0.5061 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 73.6790, 0.2800, 0.5061 by changing the saturation by 10% instead.



 73.6790, 0.2800,  
0.5061


 73.6790, 0.2800,  
0.5061


473.3648, 0.2998,  
0.4169


 54.5314, 0.2742,  
0.5279


 124.4407, 0.2879,  
0.4739


 39.0266, 0.2663,  
0.5554


 156.8235, 0.2907,  
0.4617

 26.7804, 0.2551,  
0.5909

 194.3868, 0.2929,  
0.4514

 17.4084, 0.2387,  
0.6377

 237.5150, 0.2948,  
0.4425

 10.5261, 0.2134,  
0.7009

286.5925, 0.2964,  
0.4349

 5.7491, 0.1788,  
0.8139


342.0037, 0.2977,


 2.6932, 0.0546,


0.4281


0.9454

404.1330, 0.2988,  
0.4222


 0.9737, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000

 73.6790, 0.2800,  
0.5061


 73.6790, 0.2800,  
0.5061


 72.8078, 0.2821,  
0.5285

 74.9816, 0.2797,  
0.4817

 72.2796, 0.2856,  
0.5482


 76.7706, 0.2813,  
0.4565

 72.2796, 0.2856,  
0.5482

 79.0925, 0.2844,  
0.4314

 81.9883, 0.2888,  
0.4073

 85.4945, 0.2941,  
0.3847

 89.6449, 0.3001,  
0.3641

 94.4704, 0.3063,  
0.3455

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



73.6790, 0.3765, 0.5237



73.6790, 0.2800, 0.5061



73.6790, 0.1975, 0.4013

# Triad

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



73.6790, 0.2800, 0.5061



73.6790, 0.1659, 0.1805



73.6790, 0.5056, 0.3269

# Complementary

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



73.6790, 0.2800, 0.5061



27.0053, 0.4080, 0.2166

# 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.



73.6790, 0.4276, 0.2623



73.6790, 0.2800, 0.5061



73.6790, 0.2238, 0.1824

# Square

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



73.6790, 0.2800, 0.5061



73.6790, 0.1421, 0.2108



73.6790, 0.3174, 0.2111



73.6790, 0.5145, 0.3977



# Rectangle

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



73.6790, 0.2800, 0.5061



73.6790, 0.1620, 0.3195



73.6790, 0.3174, 0.2111



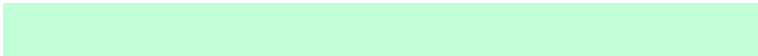
73.6790, 0.4864, 0.3044

# Sweetspot

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



73.6790, 0.2800, 0.5061



87.9052, 0.2976, 0.3721



81.9001, 0.3640, 0.5321



18.5028, 0.2955, 0.3795



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.



73.6790, 0.2800, 0.5061



72.4638, 0.2841, 0.5406



77.6274, 0.2395, 0.3672



20.2756, 0.3066, 0.3446



37.7934, 0.2848, 0.5451



3.6998, 0.2784, 0.5224



# Inverse Universe

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



27.0053, 0.4080, 0.2166



24.2864, 0.4336, 0.2177



24.2309, 0.5602, 0.3090



18.1835, 0.3193, 0.3138



12.5342, 0.4373, 0.2183

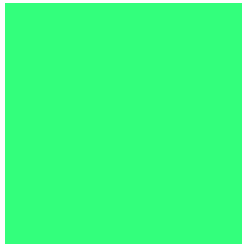


1.2413, 0.4205, 0.2090



# Previews

## White Background



This preview shows how the Yxy color 73.6790, 0.2800, 0.5061 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 73.6790, 0.2800, 0.5061 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

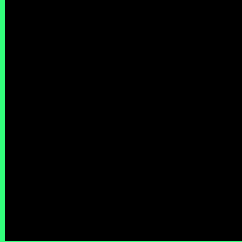
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 73.6790, 0.2800, 0.5061**

## **Background**



This preview shows how black text looks on a background with the Yxy color 73.6790, 0.2800, 0.5061.

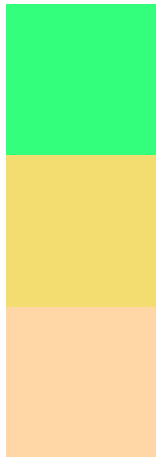


This preview shows how white text looks on a background with the Yxy color 73.6790, 0.2800, 0.5061.

# 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

73.6790, 0.2800, 0.5061

### Protanopia

72.1159, 0.4031, 0.4398

### Deuteranopia

72.0697, 0.3796, 0.3796



## Tritanopia

73.1149, 0.2444, 0.3090

# Trichromacy



## Original Color

73.6790, 0.2800, 0.5061



## Protanomaly

68.5375, 0.3421, 0.4713



## Deuteranomaly

68.0644, 0.3289, 0.4258



## Tritanomaly

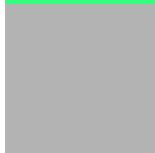
71.9731, 0.2560, 0.3762

# Monochromacy



## Original Color

73.6790, 0.2800, 0.5061



## Achromatopsia

45.0786, 0.3127, 0.3290



## Achromatomaly

52.0344, 0.2908, 0.3973

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 73.6790, 0.2800, 0.5061 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(51, 255, 124)` looks like.

```
.text, #text, p{  
    color:rgb(51, 255, 124)  
}
```

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(51, 255, 124) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 255, 124) }
```

## Border

The CSS property to change the border of an element to Yxy 73.6790, 0.2800, 0.5061 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(51, 255, 124) }
```

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

```
.border{ border-color:rgb(51, 255, 124) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 255, 124)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 255, 124); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 255, 124);  
box-shadow:4px 4px 4px 4px rgb(51, 255,  
124) }
```



# Background

The CSS property to change the background color of an element to Yxy 73.6790, 0.2800, 0.5061 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 255, 124) }
```

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

```
.background{ background-color: rgb(51, 255,  
124) }
```

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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