

# Converting Colors

$Y_{xy}(53.7523, 0.2776, 0.5193)$

Have a look what the booklet for  
Yxy(53.7523, 0.2776, 0.5193)  
contains.

<b>Yxy(53.6955, 0.2777, 0.5198)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(53.6955, 0.2777, 0.5198)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00DF64
RGB	0, 223, 100
RGB Percent	0%, 87%, 39%
CMY	1.0000, 0.1255, 0.6077
CMYK	1.00, 0.00, 0.55, 0.13
HSL	147°, 100%, 44%
HSV	147°, 100%, 87%
XYZ	28.6865, 53.6955, 20.9183
YIQ	142.3010, -93.4250, -85.5290

# Conversions

## Conversions Part 2

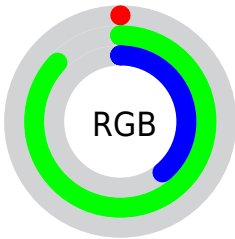
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 154, 223
Decimal	57188
CIELab	78.28, -71.01, 47.15
CIELCh	78, 85.238, 146.412
Yxy	53.6955, 0.2777, 0.5198
Android (android.graphics.Color)	4278247268 (0xFF00DF64)
YUV	142.3010, -20.8544, -124.7980
Hunter-Lab	73.2772, -58.3561, 34.3686

# Details

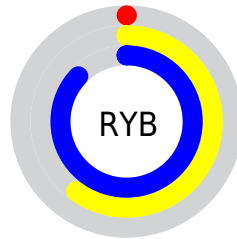
The Yxy color **53.6955, 0.2777, 0.5198** is a dark color, and the websafe version is hex **00CC66**. The color can be described as dark washed spring green. A complement of this color would be **17.1182, 0.4765, 0.2399**, and the grayscale version is **27.2910, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.9789, 0.2844, 0.4594**, and **27.4858, 0.2891, 0.5608** is the 20% darker color. If you saturate the color by 10%, you get **53.6996, 0.2777, 0.5198**, and if you desaturate by 10%, it is **54.1301, 0.2744, 0.5007**.

# Distribution



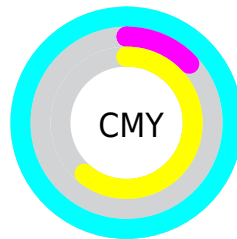
- Red (0%)
- Green (87%)
- Blue (39%)



- Red (0%)
- Yellow (60%)
- Blue (87%)



- Cyan (100%)
- Magenta (0%)
- Yellow (55%)
- Black (13%)




- Cyan (100%)
- Magenta (13%)
- Yellow (61%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 53.6955, 0.2777, 0.5198 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 53.6955, 0.2777, 0.5198 by changing the saturation by 10% instead.





 53.6955, 0.2777,  
0.5198


 53.6955, 0.2777,  
0.5198


400.9478, 0.3003,  
0.4184


 38.3583, 0.2704,  
0.5463


 95.6270, 0.2871,  
0.4819

 26.2609, 0.2601,  
0.5805


 122.9901, 0.2903,  
0.4679


 17.0189, 0.2448,  
0.6260


 155.1306, 0.2928,  
0.4563

 10.2480, 0.2209,  
0.6877

 192.4328, 0.2949,  
0.4464

 5.5637, 0.1875,  
0.7964

 235.2813, 0.2966,  
0.4379

 2.5816, 0.0687,  
0.9313

284.0603, 0.2980,


 0.9174, 0.0000,

0.4305

1.0000


339.1544, 0.2992,  
0.4241


 0.0000, 0.0000,  
0.0000

 53.6955, 0.2777,  
0.5198


 53.6955, 0.2777,  
0.5198

 53.6996, 0.2777,  
0.5198

 54.1301, 0.2744,  
0.5007

 54.7990, 0.2727,  
0.4801

 55.7727, 0.2730,  
0.4585

 57.0898, 0.2752,  
0.4368

 58.7827, 0.2791,  
0.4154

■ 60.8799, 0.2843,  
0.3951

■ 63.4072, 0.2906,  
0.3761

■ 66.3880, 0.2977,  
0.3587

■ 69.8441, 0.3051,  
0.3430

# Harmonies

## Analogous

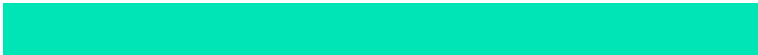
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



53.6955, 0.3787, 0.5345



53.6955, 0.2777, 0.5198



53.6955, 0.1914, 0.4073

# Triad

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



53.6955, 0.2777, 0.5198



53.6955, 0.1585, 0.1735



53.6955, 0.5166, 0.3243

# Complementary

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



53.6955, 0.2777, 0.5198



17.1182, 0.4765, 0.2399

# 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.



53.6955, 0.4332, 0.2577



53.6955, 0.2777, 0.5198



53.6955, 0.2180, 0.1755

# Square

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



53.6955, 0.2777, 0.5198



53.6955, 0.1344, 0.2047



53.6955, 0.3158, 0.2050



53.6955, 0.5252, 0.3975



# Rectangle

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



53.6955, 0.2777, 0.5198



53.6955, 0.1547, 0.3192



53.6955, 0.3158, 0.2050



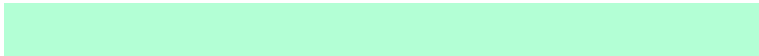
53.6955, 0.4961, 0.3012

# Sweetspot

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



53.6996, 0.2777, 0.5198



85.8391, 0.2905, 0.3765



57.2426, 0.3453, 0.5640



18.0473, 0.2877, 0.3844



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.



53.6996, 0.2777, 0.5198



72.7439, 0.2781, 0.5211



57.3397, 0.2305, 0.3497



15.4390, 0.3055, 0.3422



31.5946, 0.2770, 0.5170



2.2078, 0.2686, 0.4870



# Inverse Universe

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



17.1182, 0.4765, 0.2399



23.1714, 0.4779, 0.2407



15.7231, 0.6343, 0.3268



13.8264, 0.3206, 0.3161



10.0877, 0.4735, 0.2382

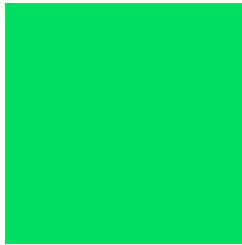


0.7172, 0.4436, 0.2217



# Previews

## White Background



This preview shows how the Yxy color 53.6955, 0.2777, 0.5198 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 53.6955, 0.2777, 0.5198 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 53.6955, 0.2777, 0.5198**

## **Background**



This preview shows how black text looks on a background with the Yxy color 53.6955, 0.2777, 0.5198.

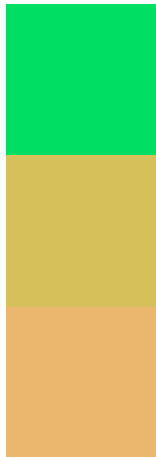


This preview shows how white text looks on a background with the Yxy color 53.6955, 0.2777, 0.5198.

# 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

53.6955, 0.2777, 0.5198

### Protanopia

52.5836, 0.4079, 0.4456

### Deuteranopia

52.5071, 0.4179, 0.4084



## Tritanopia

53.6655, 0.2329, 0.3060

# Trichromacy



## Original Color

53.6955, 0.2777, 0.5198



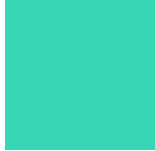
## Protanomaly

48.7543, 0.3336, 0.4850



## Deuteranomaly

47.8393, 0.3377, 0.4584



## Tritanomaly

52.7493, 0.2461, 0.3793

# Monochromacy



## Original Color

53.6955, 0.2777, 0.5198



## Achromatopsia

27.0498, 0.3127, 0.3290



## Achromatomaly

32.8318, 0.2803, 0.4070

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  53.6955, 0.2777, 0.5198 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(0, 223, 100)` looks like.

```
.text, #text, p{  
    color:rgb(0, 223, 100)  
}
```

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(0, 223, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 223, 100) }
```

## Border

The CSS property to change the border of an element to Yxy 53.6955, 0.2777, 0.5198 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(0, 223, 100) }
```

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

```
.border{ border-color:rgb(0, 223, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 223, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 223, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 223, 100);  
box-shadow:4px 4px 4px 4px rgb(0, 223,  
100) }
```



# Background

The CSS property to change the background color of an element to Yxy 53.6955, 0.2777, 0.5198 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 223, 100) }
```

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

```
.background{ background-color: rgb(0, 223,  
100) }
```

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