

# Converting Colors

$Y_{xy}(40.0932, 0.2921, 0.5635)$

Have a look what the booklet for  
Yxy(40.0932, 0.2921, 0.5635)  
contains.

<b>Yxy(39.8843, 0.2921, 0.5634)</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(39.8843, 0.2921, 0.5634)**

# Conversions

## Conversions Part 1

Format	Color
Hex	12C437
RGB	18, 196, 55
RGB Percent	7%, 77%, 22%
CMY	0.9299, 0.2314, 0.7841
CMYK	0.91, 0.00, 0.72, 0.23
HSL	133°, 83%, 42%
HSV	133°, 91%, 77%
XYZ	20.6784, 39.8843, 10.2295
YIQ	126.7040, -60.8270, -81.5870

# Conversions

## Conversions Part 2

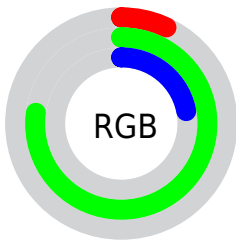
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">18, 165, 196</a>
Decimal	<a href="#">1229879</a>
CIELab	<a href="#">69.39, -67.33, 56.30</a>
CIELCh	<a href="#">69, 87.764, 140.098</a>
Yxy	<a href="#">39.8843, 0.2921, 0.5634</a>
Android (android.graphics.Color)	<a href="#">4279419959</a> ( <a href="#">0xFF12C437</a> )
YUV	<a href="#">126.7040, -35.3501, -95.3334</a>
Hunter-Lab	<a href="#">63.1540, -52.0736, 34.6042</a>

# Details

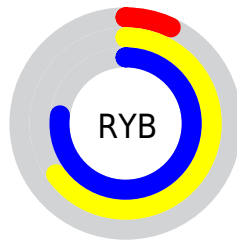
The Yxy color **39.8843, 0.2921, 0.5634** is a dark color, and the websafe version is hex **33CC33**. The color can be described as dark washed green. A complement of this color would be **14.6629, 0.3751, 0.1882**, and the grayscale version is **21.2468, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.0127, 0.3019, 0.5138**, and **18.7562, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **39.6415, 0.2942, 0.5790**, and if you desaturate by 10%, it is **40.3339, 0.2905, 0.5413**.

# Distribution



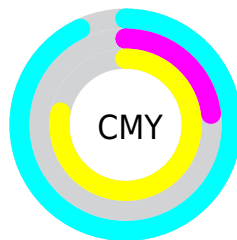
- Red (7%)
- Green (77%)
- Blue (22%)



- Red (7%)
- Yellow (65%)
- Blue (77%)



- Cyan (91%)
- Magenta (0%)
- Yellow (72%)
- Black (23%)




- Cyan (93%)
- Magenta (23%)
- Yellow (78%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.8843, 0.2921, 0.5634 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 39.8843, 0.2921, 0.5634 by changing the saturation by 10% instead.





 39.8843, 0.2921,  
0.5634


 39.8843, 0.2921,  
0.5634

345.6357, 0.3117,  
0.4338

 27.4483, 0.2833,  
0.5981


 74.9873, 0.3020,  
0.5141


 17.9102, 0.2694,  
0.6428


 98.4231, 0.3048,  
0.4961

 10.8856, 0.2466,  
0.7011


 126.2944, 0.3068,  
0.4812

 5.9899, 0.2114,  
0.7886

 158.9854, 0.3084,  
0.4687

 2.8390, 0.1225,  
0.8775

 196.8807, 0.3095,  
0.4580

 1.0482, 0.0000,  
1.0000


240.3646, 0.3104,

 0.0000, 0.0000,


0.4488


0.0000

289.8214, 0.3111,  
0.4408


 39.8843, 0.2921,  
0.5634


 39.8843, 0.2921,  
0.5634

 39.6415, 0.2942,  
0.5790

 40.3339, 0.2905,  
0.5413

 41.0277, 0.2902,  
0.5150

 41.9981, 0.2912,  
0.4861

 43.2713, 0.2933,  
0.4563

 44.8702, 0.2963,  
0.4270

■ 46.8157, 0.3000,  
0.3993

■ 49.1266, 0.3040,  
0.3739

■ 51.8207, 0.3082,  
0.3510

■ 54.9144, 0.3124,  
0.3307

# Harmonies

## Analogous

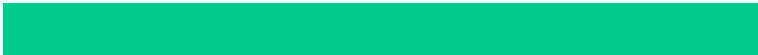
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



39.8843, 0.4023, 0.5470



39.8843, 0.2921, 0.5634



39.8843, 0.1924, 0.4519

# Triad

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



39.8843, 0.2921, 0.5634



39.8843, 0.1354, 0.1615



39.8843, 0.5297, 0.3039

# Complementary

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



39.8843, 0.2921, 0.5634



14.6629, 0.3751, 0.1882

# 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.



39.8843, 0.4212, 0.2353



39.8843, 0.2921, 0.5634



39.8843, 0.1900, 0.1578

# Square

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



39.8843, 0.2921, 0.5634



39.8843, 0.1167, 0.2021



39.8843, 0.2887, 0.1835



39.8843, 0.5537, 0.3801

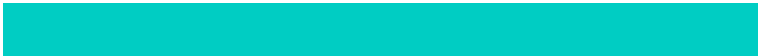


# Rectangle

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



39.8843, 0.2921, 0.5634



39.8843, 0.1472, 0.3457



39.8843, 0.2887, 0.1835



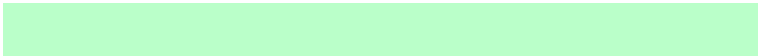
39.8843, 0.5010, 0.2800

# Sweetspot

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



39.8859, 0.2921, 0.5634



86.1723, 0.3013, 0.3903



47.0383, 0.3855, 0.5268



18.1502, 0.3000, 0.3994



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.



39.8859, 0.2921, 0.5634



71.7790, 0.2948, 0.5811



41.5797, 0.2516, 0.4199



11.2925, 0.3088, 0.3477



25.4803, 0.2936, 0.5770



1.1112, 0.2818, 0.5344



# Inverse Universe

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



14.6629, 0.3751, 0.1882



25.5142, 0.3833, 0.1885



12.6245, 0.5492, 0.2874



10.2103, 0.3169, 0.3110



9.0764, 0.3812, 0.1874

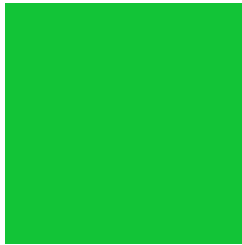


0.4014, 0.3653, 0.1786



# Previews

## White Background



This preview shows how the Yxy color 39.8843, 0.2921, 0.5634 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

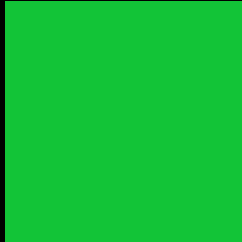
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 39.8843, 0.2921, 0.5634 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 39.8843, 0.2921, 0.5634**

## Background



This preview shows how black text looks on a background with the Yxy color 39.8843, 0.2921, 0.5634.



This preview shows how white text looks on a background with the Yxy color 39.8843, 0.2921, 0.5634.

# 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

39.8843, 0.2921, 0.5634

### Protanopia

38.9100, 0.4269, 0.4709

### Deuteranopia

39.1143, 0.4437, 0.4349



## Tritanopia

39.7380, 0.2357, 0.3061

# Trichromacy



## Original Color

39.8843, 0.2921, 0.5634



## Protanomaly

36.5154, 0.3564, 0.5180



## Deuteranomaly

35.8215, 0.3667, 0.4928



## Tritanomaly

38.9716, 0.2566, 0.4003

# Monochromacy



## Original Color

39.8843, 0.2921, 0.5634



## Achromatopsia

21.2231, 0.3127, 0.3290



## Achromatomaly

25.4223, 0.2956, 0.4292

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.8843, 0.2921, 0.5634 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(18, 196, 55)` looks like.

```
.text, #text, p{  
    color:rgb(18, 196, 55)  
}
```

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(18, 196, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 196, 55) }
```

## Border

The CSS property to change the border of an element to Yxy 39.8843, 0.2921, 0.5634 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(18, 196, 55) }
```

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

```
.border{ border-color:rgb(18, 196, 55) }
```

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

Here you see how a box with a 4 pixel rgb(18, 196, 55) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 196, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 196, 55);  
box-shadow:4px 4px 4px 4px rgb(18, 196,  
55) }
```



# Background

The CSS property to change the background color of an element to Yxy 39.8843, 0.2921, 0.5634 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 196, 55) }
```

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

```
.background{ background-color: rgb(18, 196,  
55) }
```

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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