

# Converting Colors

$Y_{xy}(41.5309, 0.2598, 0.3971)$

Have a look what the booklet for  
Yxy(41.5309, 0.2598, 0.3971)  
contains.

<b>Yxy(41.7139, 0.2599, 0.3978)</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(41.7139, 0.2599, 0.3978)**

# Conversions

## Conversions Part 1

Format	Color
Hex	47C197
RGB	71, 193, 151
RGB Percent	28%, 76%, 59%
CMY	0.7216, 0.2431, 0.4078
CMYK	0.63, 0.00, 0.22, 0.24
HSL	159°, 50%, 52%
HSV	159°, 63%, 76%
XYZ	27.2535, 41.7139, 35.8941
YIQ	151.7340, -59.2300, -38.9260

# Conversions

## Conversions Part 2

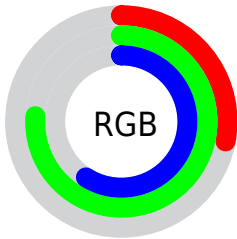
Format	Color
<a href="#">RYB</a>	<a href="#">71, 145, 193</a>
Decimal	<a href="#">4702615</a>
CIELab	<a href="#">70.67, -43.88, 11.28</a>
CIELCh	<a href="#">71, 45.308, 165.589</a>
Yxy	<a href="#">41.7139, 0.2599, 0.3978</a>
Android (android.graphics.Color)	<a href="#">4282892695 (0xFF47C197)</a>
YUV	<a href="#">151.7340, -0.3619, -70.8037</a>
Hunter-Lab	<a href="#">64.5863, -37.7043, 12.2598</a>

# Details

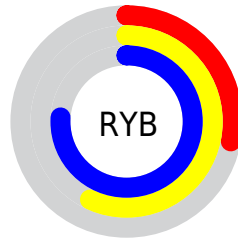
The Yxy color **41.7139, 0.2599, 0.3978** is a dark color, and the websafe version is hex **66CC99**. The color can be described as middle muted spring green. A complement of this color would be **17.0346, 0.4410, 0.2759**, and the grayscale version is **31.2985, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.6043, 0.2701, 0.3841**, and **19.0971, 0.2496, 0.4185** is the 20% darker color. If you saturate the color by 10%, you get **40.8884, 0.2566, 0.4109**, and if you desaturate by 10%, it is **42.7865, 0.2650, 0.3850**.

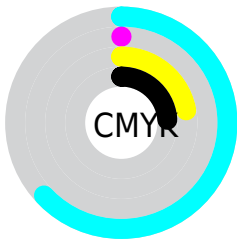
# Distribution



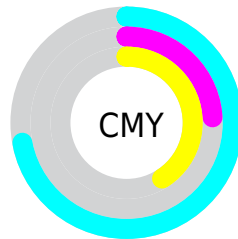
- Red (28%)
- Green (76%)
- Blue (59%)



- Red (28%)
- Yellow (57%)
- Blue (76%)



- Cyan (63%)
- Magenta (0%)
- Yellow (22%)
- Black (24%)




- Cyan (72%)
- Magenta (24%)
- Yellow (41%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.7139, 0.2599, 0.3978 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 41.7139, 0.2599, 0.3978 by changing the saturation by 10% instead.




 41.7139, 0.2599,  
0.3978


 41.7139, 0.2599,  
0.3978


353.2956, 0.2874,  
0.3613


 28.8773, 0.2527,  
0.4076


 77.7664, 0.2701,  
0.3840

 18.9880, 0.2432,  
0.4207


 101.7512, 0.2739,  
0.3790

 11.6616, 0.2303,  
0.4389


 130.2208, 0.2771,  
0.3748

 6.5137, 0.2116,  
0.4659

 163.5597, 0.2798,  
0.3713

 3.1599, 0.1826,  
0.5096

 202.1522, 0.2821,  
0.3682

 1.2158, 0.0294,  
0.6885

246.3828, 0.2841,

 0.0745, 0.0000,

0.3656

1.0000

296.6358, 0.2858,  
0.3633

0.0000, 0.0000,  
0.0000

41.7139, 0.2599,  
0.3978

41.7139, 0.2599,  
0.3978

40.8884, 0.2566,  
0.4109

42.7865, 0.2650,  
0.3850

40.2821, 0.2553,  
0.4242

44.1214, 0.2718,  
0.3727

39.8689, 0.2560,  
0.4373

45.7380, 0.2799,  
0.3612

39.6632, 0.2572,  
0.4461

47.6528, 0.2891,  
0.3504

49.8807, 0.2990,  
0.3406

■ 52.4357, 0.3093,  
0.3317

■ 55.3311, 0.3199,  
0.3237

■ 58.5791, 0.3305,  
0.3166

■ 62.1916, 0.3410,  
0.3103

# Harmonies

## Analogous

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



41.7139, 0.3209, 0.4431



41.7139, 0.2599, 0.3978



41.7139, 0.2160, 0.3298

# Triad

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



41.7139, 0.2599, 0.3978



41.7139, 0.2381, 0.2275



41.7139, 0.4434, 0.3653

# Complementary

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



41.7139, 0.2599, 0.3978



17.0346, 0.4410, 0.2759

# 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.



41.7139, 0.4180, 0.3157



41.7139, 0.2599, 0.3978



41.7139, 0.2932, 0.2405

# Square

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



41.7139, 0.2599, 0.3978



41.7139, 0.2052, 0.2367



41.7139, 0.3603, 0.2717



41.7139, 0.4289, 0.4127



# Rectangle

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



41.7139, 0.2599, 0.3978



41.7139, 0.2007, 0.2883



41.7139, 0.3603, 0.2717



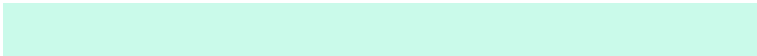
41.7139, 0.4394, 0.3486

# Sweetspot

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



41.7156, 0.2599, 0.3978



86.8392, 0.2929, 0.3465



42.1536, 0.3309, 0.5145



18.3920, 0.2901, 0.3494



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



41.7156, 0.2599, 0.3978



72.7517, 0.2559, 0.4162



35.7335, 0.2308, 0.2999



11.3676, 0.3029, 0.3370



26.3947, 0.2568, 0.4444



1.1530, 0.2487, 0.4154



# Inverse Universe

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



17.0346, 0.4410, 0.2759



25.0244, 0.4875, 0.2728



18.9856, 0.4956, 0.3521



10.1339, 0.3236, 0.3211



7.8195, 0.5573, 0.2844

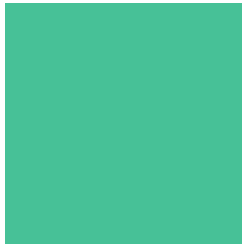


0.3509, 0.4941, 0.2496



# Previews

## White Background



This preview shows how the Yxy color 41.7139, 0.2599, 0.3978 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 41.7139, 0.2599, 0.3978 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

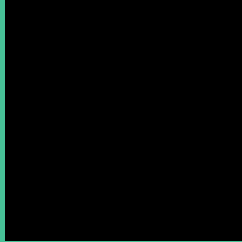
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 41.7139, 0.2599, 0.3978**

## **Background**



This preview shows how black text looks on a background with the Yxy color 41.7139, 0.2599, 0.3978.



This preview shows how white text looks on a background with the Yxy color 41.7139, 0.2599, 0.3978.

# 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

41.7139, 0.2599, 0.3978

### Protanopia

40.9644, 0.3500, 0.3716

### Deuteranopia

41.1761, 0.3475, 0.3409



## Tritanopia

41.5085, 0.2387, 0.3066

# Trichromacy



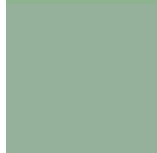
## Original Color

41.7139, 0.2599, 0.3978



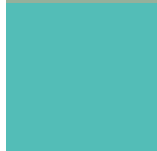
## Protanomaly

40.0046, 0.3085, 0.3820



## Deuteranomaly

39.8068, 0.3061, 0.3601



## Tritanomaly

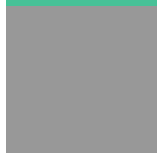
41.6531, 0.2460, 0.3381

# Monochromacy



## Original Color

41.7139, 0.2599, 0.3978



## Achromatopsia

31.3989, 0.3127, 0.3290



## Achromatomaly

34.1154, 0.2863, 0.3531

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.7139, 0.2599, 0.3978 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(71, 193, 151)` looks like.

```
.text, #text, p{  
    color:rgb(71, 193, 151)  
}
```

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(71, 193, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 193, 151) }
```

## Border

The CSS property to change the border of an element to Yxy 41.7139, 0.2599, 0.3978 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(71, 193, 151) }
```

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

```
.border{ border-color:rgb(71, 193, 151) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 193, 151)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 193, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 193, 151);  
box-shadow:4px 4px 4px 4px rgb(71, 193,  
151) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.7139, 0.2599, 0.3978 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 193, 151) }
```

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

```
.background{ background-color: rgb(71, 193,  
151) }
```

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