

Converting Colors

$Y_{xy}(49.8768, 0.2942, 0.5269)$

Have a look what the booklet for
Yxy(49.8768, 0.2942, 0.5269)
contains.

Yxy(49.8550, 0.2941, 0.5267)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(49.8550, 0.2941, 0.5267)

Conversions

Conversions Part 1

Format	Color
Hex	40D656
RGB	64, 214, 86
RGB Percent	25%, 84%, 34%
CMY	0.7492, 0.1608, 0.6627
CMYK	0.70, 0.00, 0.60, 0.16
HSL	129°, 65%, 54%
HSV	129°, 70%, 84%
XYZ	27.8382, 49.8550, 16.9622
YIQ	154.5580, -48.3120, -71.6080

Conversions

Conversions Part 2

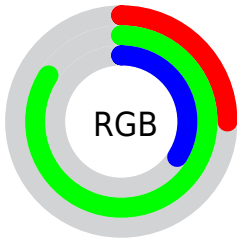
Format	Color
RYB	64, 195, 214
Decimal	4249174
CIELab	75.98, -64.42, 50.97
CIELCh	76, 82.143, 141.646
Yxy	49.8550, 0.2941, 0.5267
Android (android.graphics.Color)	4282439254 (0xFF40D656)
YUV	154.5580, -33.7991, -79.4194
Hunter-Lab	70.6081, -53.1882, 35.1824

Details

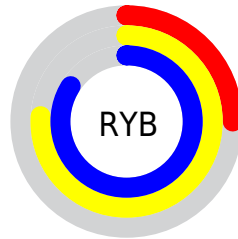
The Yxy color **49.8550, 0.2941, 0.5267** is a dark color, and the websafe version is hex **33CC33**. The color can be described as dark muted green. A complement of this color would be **21.7604, 0.3464, 0.1929**, and the grayscale version is **32.7353, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.2094, 0.3019, 0.4743**, and **24.5526, 0.2942, 0.5790** is the 20% darker color. If you saturate the color by 10%, you get **49.0151, 0.2942, 0.5532**, and if you desaturate by 10%, it is **51.0492, 0.2951, 0.4965**.

Distribution



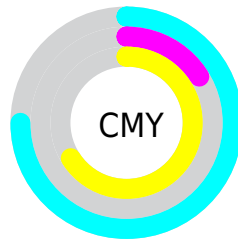
- Red (25%)
- Green (84%)
- Blue (34%)



- Red (25%)
- Yellow (76%)
- Blue (84%)



- Cyan (70%)
- Magenta (0%)
- Yellow (60%)
- Black (16%)





- Cyan (75%)
- Magenta (16%)
- Yellow (66%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 49.8550, 0.2941, 0.5267 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 49.8550, 0.2941, 0.5267 by changing the saturation by 10% instead.

 49.8550, 0.2941,
0.5267

 49.8550, 0.2941,
0.5267


386.0986, 0.3095,
0.4211

 35.2982, 0.2880,
0.5542


 89.9600, 0.3013,
0.4872


 23.8927, 0.2789,
0.5897


 116.2770, 0.3035,
0.4727

 15.2540, 0.2644,
0.6365


 147.2828, 0.3052,
0.4605

 8.9979, 0.2405,
0.6994

 183.3619, 0.3065,
0.4502

 4.7398, 0.2025,
0.7975

224.8987, 0.3075,
0.4414

 2.0954, 0.0494,
0.9506

272.2774, 0.3083,

 0.6620, 0.0000,

0.4337

1.0000

325.8826, 0.3090,
0.4270

■ 0.0000, 0.0000,
0.0000

■ 49.8550, 0.2941,
0.5267

■ 49.8550, 0.2941,
0.5267

■ 49.0151, 0.2942,
0.5532

■ 51.0492, 0.2951,
0.4965

■ 48.4839, 0.2953,
0.5743


■ 52.6249, 0.2970,
0.4648


■ 48.1984, 0.2969,
0.5888

■ 54.6136, 0.2996,
0.4333

■ 57.0420, 0.3027,
0.4034

■ 59.9342, 0.3060,
0.3758

 63.3129, 0.3094,
0.3511

 67.1991, 0.3127,
0.3292

 71.6127, 0.3159,
0.3102

 76.2773, 0.3178,
0.2935

Harmonies

Analogous

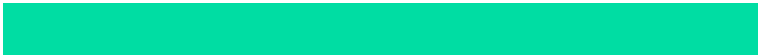
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



49.8550, 0.3940, 0.5261



49.8550, 0.2941, 0.5267



49.8550, 0.2042, 0.4276

Triad

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



49.8550, 0.2941, 0.5267



49.8550, 0.1539, 0.1775



49.8550, 0.5056, 0.3136

Complementary

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



49.8550, 0.2941, 0.5267



21.7604, 0.3464, 0.1929

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.



49.8550, 0.4140, 0.2490



49.8550, 0.2941, 0.5267



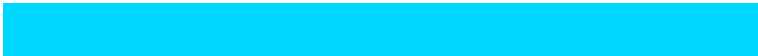
49.8550, 0.2070, 0.1747

Square

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



49.8550, 0.2941, 0.5267



49.8550, 0.1351, 0.2148



49.8550, 0.2983, 0.1998



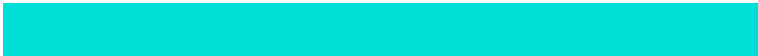
49.8550, 0.5266, 0.3855

Rectangle

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



49.8550, 0.2941, 0.5267



49.8550, 0.1632, 0.3391



49.8550, 0.2983, 0.1998



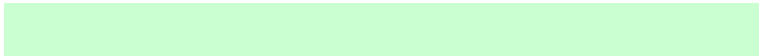
49.8550, 0.4815, 0.2910

Sweetspot

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



49.8571, 0.2941, 0.5267



88.6196, 0.3056, 0.3787



59.9356, 0.3900, 0.4950



18.7009, 0.3047, 0.3862



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.



49.8571, 0.2941, 0.5267



72.4592, 0.2946, 0.5640



51.6876, 0.2590, 0.4130



13.9254, 0.3096, 0.3495



29.1399, 0.2964, 0.5872



1.7673, 0.2889, 0.5601

Inverse Universe

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



21.7604, 0.3464, 0.1929



28.1865, 0.3546, 0.1804



19.2886, 0.4593, 0.2693



12.5998, 0.3160, 0.3093



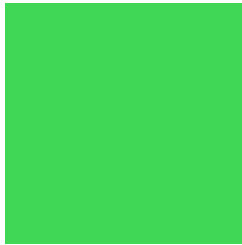
10.7077, 0.3617, 0.1766



0.6546, 0.3536, 0.1721

Previews

White Background



This preview shows how the Yxy color 49.8550, 0.2941, 0.5267 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 49.8550, 0.2941, 0.5267 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 49.8550, 0.2941, 0.5267

Background



This preview shows how black text looks on a background with the Yxy color 49.8550, 0.2941, 0.5267.

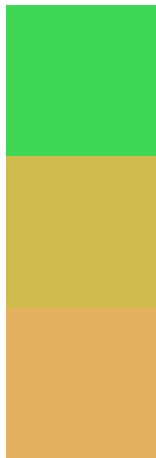


This preview shows how white text looks on a background with the Yxy color 49.8550, 0.2941, 0.5267.

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

49.8550, 0.2941, 0.5267

Protanopia

48.9333, 0.4140, 0.4535

Deuteranopia

48.8013, 0.4271, 0.4179



Tritanopia

49.6666, 0.2410, 0.3069

Trichromacy



Original Color

49.8550, 0.2941, 0.5267



Protanomaly

47.0425, 0.3588, 0.4859



Deuteranomaly

45.9421, 0.3662, 0.4604



Tritanomaly

49.1310, 0.2611, 0.3846

Monochromacy



Original Color

49.8550, 0.2941, 0.5267



Achromatopsia

32.7778, 0.3127, 0.3290



Achromatomaly

36.7999, 0.3026, 0.4037

CSS Examples

Text

The CSS property to change the color of the text to Yxy 49.8550, 0.2941, 0.5267 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(64, 214, 86)` looks like.

```
.text, #text, p{  
    color:rgb(64, 214, 86)  
}
```

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(64, 214, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 214, 86) }
```

Border

The CSS property to change the border of an element to Yxy 49.8550, 0.2941, 0.5267 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(64, 214, 86) }
```

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

```
.border{ border-color:rgb(64, 214, 86) }
```

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

Here you see how a box with a 4 pixel rgb(64, 214, 86) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 214, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 214, 86);  
box-shadow:4px 4px 4px 4px rgb(64, 214,  
86) }
```


Background

The CSS property to change the background color of an element to Yxy 49.8550, 0.2941, 0.5267 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 214, 86) }
```

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

```
.background{ background-color: rgb(64, 214,  
86) }
```

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