

# Converting Colors

$Y_{xy}(29.8281, 0.2839, 0.5042)$

Have a look what the booklet for  
Yxy(29.8281, 0.2839, 0.5042)  
contains.

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**Color**

**Yxy(29.8209, 0.2841, 0.5049)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2AAA50
RGB	42, 170, 80
RGB Percent	16%, 67%, 31%
CMY	0.8350, 0.3333, 0.6862
CMYK	0.75, 0.00, 0.53, 0.33
HSL	138°, 60%, 42%
HSV	138°, 75%, 67%
XYZ	16.7798, 29.8209, 12.4623
YIQ	121.4680, -47.3980, -55.1260

# Conversions

## Conversions Part 2

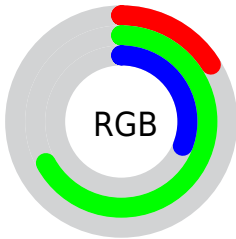
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	42, 141, 170
Decimal	2796112
CIE <sub>Lab</sub>	61.50, -53.56, 36.51
CIE <sub>LCh</sub>	61, 64.821, 145.715
Yxy	29.8209, 0.2841, 0.5049
Android (android.graphics.Color)	4280986192 (0xFF2AAA50)
YUV	121.4680, -20.4437, -69.6934
Hunter-Lab	54.6085, -40.7164, 24.6953

# Details

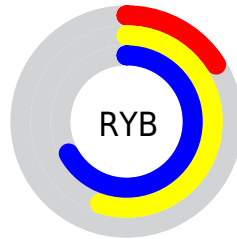
The Yxy color **29.8209, 0.2841, 0.5049** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **11.8744, 0.3822, 0.2103**, and the grayscale version is **19.3662, 0.3127, 0.3290**.

A 20% lighter version of the original color is **59.1572, 0.2931, 0.4642**, and **12.5897, 0.2890, 0.5604** is the 20% darker color. If you saturate the color by 10%, you get **29.3746, 0.2850, 0.5292**, and if you desaturate by 10%, it is **30.4532, 0.2848, 0.4788**.

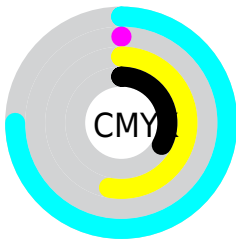
# Distribution



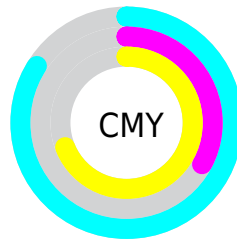
- Red (16%)
- Green (67%)
- Blue (31%)



- Red (16%)
- Yellow (55%)
- Blue (67%)



- Cyan (75%)
- Magenta (0%)
- Yellow (53%)
- Black (33%)




- Cyan (84%)
- Magenta (33%)
- Yellow (69%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.8209, 0.2841, 0.5049 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 29.8209, 0.2841, 0.5049 by changing the saturation by 10% instead.





 29.8209, 0.2841,  
0.5049


 29.8209, 0.2841,  
0.5049


301.0687, 0.3041,  
0.4032


 19.7027, 0.2764,  
0.5353


 59.3788, 0.2932,  
0.4643

 12.1791, 0.2643,  
0.5773


 79.5873, 0.2960,  
0.4502

 6.8658, 0.2441,  
0.6378


 103.9280, 0.2982,  
0.4387

 3.3783, 0.2193,  
0.7718

 132.7854, 0.2999,  
0.4292

 1.3323, 0.0000,  
1.0000

 166.5437, 0.3013,  
0.4211

 0.1660, 0.0000,  
1.0000

205.5875, 0.3024,

 0.0000, 0.0000,

0.4143

0.0000

250.3010, 0.3033,  
0.4084

■ 29.8209, 0.2841,  
0.5049

■ 29.8209, 0.2841,  
0.5049

■ 29.3746, 0.2850,  
0.5292

■ 30.4532, 0.2848,  
0.4788

■ 29.0876, 0.2875,  
0.5504

■ 31.2864, 0.2869,  
0.4520

■ 28.9830, 0.2887,  
0.5594

■ 32.3381, 0.2902,  
0.4258

■ 33.6229, 0.2945,  
0.4009

■ 35.1540, 0.2993,  
0.3778

■ 36.9437, 0.3045,  
0.3568

■ 39.0034, 0.3099,  
0.3380

■ 41.3439, 0.3152,  
0.3214

■ 43.9754, 0.3204,  
0.3068

# Harmonies

## Analogous

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



29.8209, 0.3794, 0.5197



29.8209, 0.2841, 0.5049



29.8209, 0.2016, 0.4043

# Triad

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



29.8209, 0.2841, 0.5049



29.8209, 0.1664, 0.1829



29.8209, 0.5009, 0.3250

# Complementary

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



29.8209, 0.2841, 0.5049



11.8744, 0.3822, 0.2103

# 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.



29.8209, 0.4222, 0.2613



29.8209, 0.2841, 0.5049



29.8209, 0.2226, 0.1837

# Square

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



29.8209, 0.2841, 0.5049



29.8209, 0.1440, 0.2144



29.8209, 0.3138, 0.2113



29.8209, 0.5125, 0.3950



# Rectangle

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



29.8209, 0.2841, 0.5049



29.8209, 0.1655, 0.3238



29.8209, 0.3138, 0.2113



29.8209, 0.4811, 0.3028

# Sweetspot

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



29.8221, 0.2841, 0.5049



64.3445, 0.3003, 0.3737



33.9648, 0.3725, 0.5146



14.1122, 0.2985, 0.3815



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290



# Same Dimension

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



29.8221, 0.2841, 0.5049



52.9357, 0.2864, 0.5431



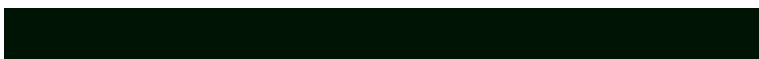
31.2042, 0.2465, 0.3801



8.4430, 0.3077, 0.3453



21.3293, 0.2882, 0.5575



0.5278, 0.2693, 0.4894



# Inverse Universe

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



11.8744, 0.3822, 0.2103



18.7182, 0.4024, 0.2039



10.6463, 0.5142, 0.2958



7.6281, 0.3181, 0.3132



7.2868, 0.4114, 0.2040



0.1856, 0.3754, 0.1842



# Previews

## White Background



This preview shows how the Yxy color 29.8209, 0.2841, 0.5049 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 29.8209, 0.2841, 0.5049 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 × Fail

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

**Yxy 29.8209, 0.2841, 0.5049**

## **Background**



This preview shows how black text looks on a background with the Yxy color 29.8209, 0.2841, 0.5049.



This preview shows how white text looks on a background with the Yxy color 29.8209, 0.2841, 0.5049.

# 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

29.8209, 0.2841, 0.5049

### Protanopia

29.4474, 0.4020, 0.4401

### Deuteranopia

29.3380, 0.4119, 0.4045



## Tritanopia

29.6952, 0.2385, 0.3066

# Trichromacy



## Original Color

29.8209, 0.2841, 0.5049



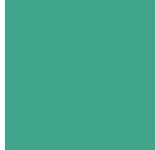
## Protanomaly

28.2207, 0.3455, 0.4687



## Deuteranomaly

27.7795, 0.3507, 0.4445



## Tritanomaly

29.5050, 0.2550, 0.3753

# Monochromacy



## Original Color

29.8209, 0.2841, 0.5049



## Achromatopsia

19.1202, 0.3127, 0.3290



## Achromatomaly

21.7812, 0.2953, 0.3959

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.8209, 0.2841, 0.5049 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(42, 170, 80)` looks like.

```
.text, #text, p{  
    color:rgb(42, 170, 80)  
}
```

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(42, 170, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(42, 170, 80) }
```

## Border

The CSS property to change the border of an element to Yxy 29.8209, 0.2841, 0.5049 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(42, 170, 80) }
```

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

```
.border{ border-color:rgb(42, 170, 80) }
```

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

Here you see how a box with a 4 pixel `rgb(42, 170, 80)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(42, 170, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(42, 170, 80);  
box-shadow:4px 4px 4px 4px rgb(42, 170,  
80) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.8209, 0.2841, 0.5049 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(42, 170, 80) }
```

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

```
.background{ background-color: rgb(42, 170,  
80) }
```

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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