

# Converting Colors

$Yxy(29.8512, 0.2871, 0.5026)$

Have a look what the booklet for  
Yxy(29.8512, 0.2871, 0.5026)  
contains.

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# Color

**Yxy(30.0067, 0.2874, 0.5033)**

# Conversions

## Conversions Part 1

Format	Color
Hex	32AA50
RGB	50, 170, 80
RGB Percent	20%, 67%, 31%
CMY	0.8043, 0.3333, 0.6863
CMYK	0.71, 0.00, 0.53, 0.33
HSL	135°, 55%, 43%
HSV	135°, 71%, 67%
XYZ	17.1348, 30.0067, 12.4784
YIQ	123.8600, -42.6300, -53.4300

# Conversions

## Conversions Part 2

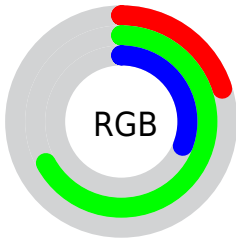
<b>Format</b>	<b>Color</b>
<b>RYB</b>	50, 146, 170
Decimal	3320400
CIELab	61.66, -52.29, 36.75
CIElCh	62, 63.909, 144.898
Yxy	30.0067, 0.2874, 0.5033
Android (android.graphics.Color)	4281510480 (0xFF32AA50)
YUV	123.8600, -21.6230, -64.7752
Hunter-Lab	54.7784, -40.0271, 24.8387

# Details

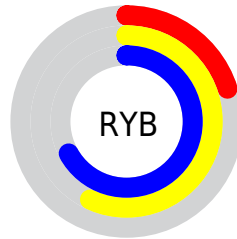
The Yxy color **30.0067, 0.2874, 0.5033** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **12.7115, 0.3667, 0.2077**, and the grayscale version is **20.1833, 0.3127, 0.3290**.

A 20% lighter version of the original color is **59.4762, 0.2958, 0.4632**, and **12.5897, 0.2890, 0.5604** is the 20% darker color. If you saturate the color by 10%, you get **29.4831, 0.2876, 0.5293**, and if you desaturate by 10%, it is **30.7288, 0.2886, 0.4755**.

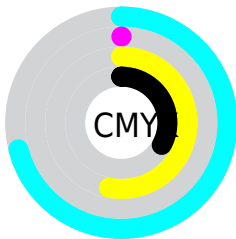
# Distribution



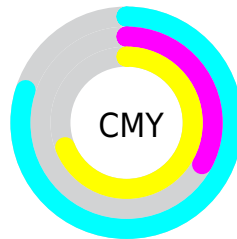
- Red (20%)
- Green (67%)
- Blue (31%)



- Red (20%)
- Yellow (57%)
- Blue (67%)



- Cyan (71%)
- Magenta (0%)
- Yellow (53%)
- Black (33%)




- Cyan (80%)
- Magenta (33%)
- Yellow (69%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.0067, 0.2874, 0.5033 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 30.0067, 0.2874, 0.5033 by changing the saturation by 10% instead.





 30.0067, 0.2874,  
0.5033

 30.0067, 0.2874,  
0.5033

301.9357, 0.3056,  
0.4028

 19.8437, 0.2802,  
0.5332


 59.6728, 0.2958,  
0.4633


 12.2815, 0.2688,  
0.5745


 79.9446, 0.2983,  
0.4493


 6.9357, 0.2496,  
0.6338


 104.3548, 0.3003,  
0.4379

 3.4219, 0.2263,  
0.7644

 133.2879, 0.3018,  
0.4285

 1.3558, 0.0000,  
1.0000

 167.1281, 0.3031,  
0.4205

 0.1838, 0.0000,  
1.0000

206.2598, 0.3041,

 0.0000, 0.0000,

0.4137

0.0000

251.0676, 0.3049,  
0.4079

■ 30.0067, 0.2874,  
0.5033

■ 30.0067, 0.2874,  
0.5033

■ 29.4831, 0.2876,  
0.5293

■ 30.7288, 0.2886,  
0.4755

■ 29.1335, 0.2893,  
0.5520

■ 31.6636, 0.2910,  
0.4473

■ 28.9244, 0.2916,  
0.5696

■ 32.8279, 0.2944,  
0.4199

■ 34.2362, 0.2985,  
0.3941

■ 35.9014, 0.3030,  
0.3704

■ 37.8357, 0.3077,  
0.3491

■ 40.0504, 0.3124,  
0.3301

■ 42.5562, 0.3170,  
0.3135

■ 45.3632, 0.3215,  
0.2989

# Harmonies

## Analogous

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



30.0067, 0.3815, 0.5161



30.0067, 0.2874, 0.5033



30.0067, 0.2051, 0.4064

# Triad

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



30.0067, 0.2874, 0.5033



30.0067, 0.1672, 0.1852



30.0067, 0.4966, 0.3236

# Complementary

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



30.0067, 0.2874, 0.5033



12.7115, 0.3667, 0.2077

# 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.



30.0067, 0.4177, 0.2607



30.0067, 0.2874, 0.5033



30.0067, 0.2219, 0.1851

# Square

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



30.0067, 0.2874, 0.5033



30.0067, 0.1458, 0.2175



30.0067, 0.3110, 0.2117



30.0067, 0.5103, 0.3928



# Rectangle

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



30.0067, 0.2874, 0.5033



30.0067, 0.1687, 0.3272



30.0067, 0.3110, 0.2117



30.0067, 0.4765, 0.3017

# Sweetspot

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



30.0079, 0.2874, 0.5033



64.8922, 0.3027, 0.3721



34.5565, 0.3753, 0.5035



14.2827, 0.3014, 0.3783



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.



30.0079, 0.2874, 0.5033



53.0779, 0.2884, 0.5432



31.3217, 0.2505, 0.3842



8.4374, 0.3083, 0.3464



21.2824, 0.2911, 0.5678



0.5257, 0.2732, 0.5035



# Inverse Universe

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



12.7115, 0.3667, 0.2077



19.6885, 0.3827, 0.1966



11.3988, 0.4872, 0.2898



7.6340, 0.3174, 0.3122



7.4308, 0.3949, 0.1949



0.1883, 0.3659, 0.1789



# Previews

## White Background



This preview shows how the Yxy color 30.0067, 0.2874, 0.5033 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 30.0067, 0.2874, 0.5033 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 30.0067, 0.2874, 0.5033**

## Background



This preview shows how black text looks on a background with the Yxy color 30.0067, 0.2874, 0.5033.



This preview shows how white text looks on a background with the Yxy color 30.0067, 0.2874, 0.5033.

# 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

30.0067, 0.2874, 0.5033

### Protanopia

29.4474, 0.4020, 0.4401

### Deuteranopia

29.3380, 0.4119, 0.4045



## Tritanopia

29.8642, 0.2406, 0.3068

# Trichromacy



## Original Color

30.0067, 0.2874, 0.5033



## Protanomaly

28.4363, 0.3486, 0.4672



## Deuteranomaly

28.0179, 0.3540, 0.4432



## Tritanomaly

29.6802, 0.2576, 0.3750

# Monochromacy



## Original Color

30.0067, 0.2874, 0.5033



## Achromatopsia

20.1556, 0.3127, 0.3290



## Achromatomaly

22.6738, 0.2985, 0.3944

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.0067, 0.2874, 0.5033 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(50, 170, 80)` looks like.

```
.text, #text, p{  
    color:rgb(50, 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(50, 170, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 170, 80) }
```

## Border

The CSS property to change the border of an element to Yxy 30.0067, 0.2874, 0.5033 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(50, 170, 80) }
```

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

```
.border{ border-color:rgb(50, 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(50, 170, 80) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 170, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 170, 80);  
box-shadow:4px 4px 4px 4px rgb(50, 170,  
80) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.0067, 0.2874, 0.5033 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 170, 80) }
```

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

```
.background{ background-color: rgb(50, 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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