

# Converting Colors

$Y_{xy}(15.4751, 0.2810, 0.6065)$

Have a look what the booklet for  
Yxy(15.4751, 0.2810, 0.6065)  
contains.

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# Color

**Yxy(15.9850, 0.2982, 0.5934)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	008209
RGB	0, 130, 9
RGB Percent	0%, 51%, 4%
CMY	0.9996, 0.4902, 0.9647
CMYK	1.00, 0.00, 0.93, 0.49
HSL	124°, 100%, 26%
HSV	124°, 100%, 51%
XYZ	8.0329, 15.9850, 2.9201
YIQ	77.3360, -38.6390, -65.1910

# Conversions

## Conversions Part 2

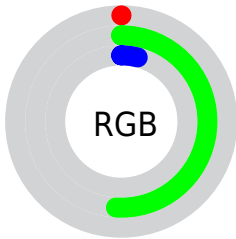
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 122, 130
Decimal	33289
CIELab	46.95, -51.93, 48.68
CIELCh	47, 71.181, 136.854
Yxy	15.9850, 0.2982, 0.5934
Android (android.graphics.Color)	4278223369 (0xFF008209)
YUV	77.3360, -33.6896, -67.8237
Hunter-Lab	39.9812, -34.1035, 23.6566

# Details

The Yxy color **15.9850, 0.2982, 0.5934** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **6.1315, 0.3383, 0.1638**, and the grayscale version is **7.5635, 0.3127, 0.3290**.

A 20% lighter version of the original color is **36.4922, 0.3116, 0.5249**, and **5.5920, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **15.9847, 0.2982, 0.5935**, and if you desaturate by 10%, it is **16.1062, 0.2983, 0.5798**.

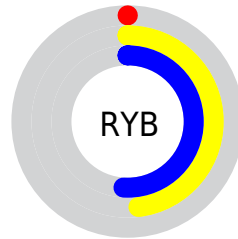
# Distribution



Red (0%)

Green (51%)

Blue (4%)



Red (0%)

Yellow (48%)

Blue (51%)

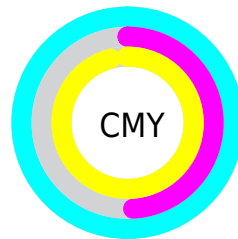


Cyan (100%)

Magenta (0%)

Yellow (93%)

Black (49%)



Cyan (100%)

Magenta (49%)


Yellow (96%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 15.9850, 0.2982, 0.5934 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 15.9850, 0.2982, 0.5934 by changing the saturation by 10% instead.





 15.9850, 0.2982,  
0.5934


 15.9850, 0.2982,  
0.5934


229.2532, 0.3185,  
0.4286


 9.5135, 0.2829,  
0.6456


 36.5722, 0.3114,  
0.5246


 5.0776, 0.2615,  
0.7385

 51.4567, 0.3143,  
0.5014


 2.2929, 0.1838,  
0.8162

 69.9143, 0.3160,  
0.4830

 0.7699, 0.0000,  
1.0000


 92.3294, 0.3171,  
0.4679


 0.0000, 0.0000,  
0.0000


 119.0865, 0.3177,  
0.4555

 150.5699, 0.3181,


0.4451

 187.1640, 0.3183,  
0.4362

 15.9850, 0.2982,  
0.5934


 15.9850, 0.2982,  
0.5934


 15.9847, 0.2982,  
0.5935

 16.1062, 0.2983,  
0.5798

 16.2973, 0.2983,  
0.5595

 16.5907, 0.2989,  
0.5331

 16.9980, 0.3002,  
0.5025

 17.5293, 0.3019,  
0.4699

■ 18.1936, 0.3040,  
0.4374

■ 18.9990, 0.3062,  
0.4063

■ 19.9530, 0.3084,  
0.3776

■ 21.0626, 0.3106,  
0.3517

# Harmonies

## Analogous

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



15.9850, 0.4152, 0.5538



15.9850, 0.2982, 0.5934



15.9850, 0.1902, 0.4847

# Triad

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



15.9850, 0.2982, 0.5934



15.9850, 0.1201, 0.1520



15.9850, 0.5411, 0.2907

# Complementary

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



15.9850, 0.2982, 0.5934



6.1315, 0.3383, 0.1638

# 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.



15.9850, 0.4149, 0.2206



15.9850, 0.2982, 0.5934



15.9850, 0.1722, 0.1454

# Square

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



15.9850, 0.2982, 0.5934



15.9850, 0.1041, 0.1983



15.9850, 0.2717, 0.1690



15.9850, 0.5746, 0.3685



# Rectangle

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



15.9850, 0.2982, 0.5934



15.9850, 0.1398, 0.3637



15.9850, 0.2717, 0.1690



15.9850, 0.5067, 0.2662

# Sweetspot

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



15.9857, 0.2982, 0.5934



33.3414, 0.3060, 0.4086



20.0551, 0.4080, 0.5141



7.4291, 0.3052, 0.4193



65.5931, 0.3127, 0.3290



8.8982, 0.3127, 0.3290



# Same Dimension

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



15.9857, 0.2982, 0.5934



28.1415, 0.2987, 0.5952



16.4565, 0.2648, 0.4731



4.8231, 0.3108, 0.3497



15.3273, 0.2982, 0.5933



0.0000, 0.0000, 0.0000



# Inverse Universe

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



6.1315, 0.3383, 0.1638



10.7849, 0.3387, 0.1640



5.0376, 0.5170, 0.2622



4.4075, 0.3147, 0.3092



5.8771, 0.3383, 0.1637

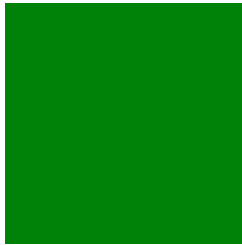


0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the Yxy color 15.9850, 0.2982, 0.5934 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

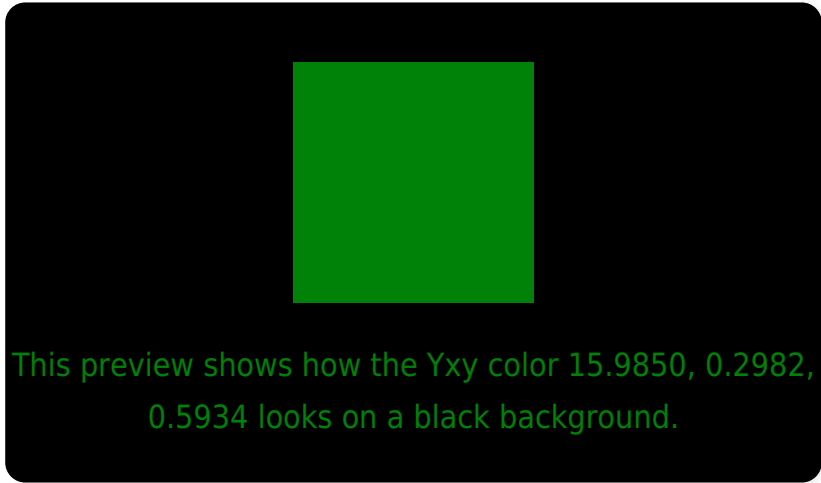
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black 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

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

**Yxy 15.9850, 0.2982, 0.5934**

## **Background**



This preview shows how black text looks on a background with the Yxy color 15.9850, 0.2982, 0.5934.



This preview shows how white text looks on a background with the Yxy color 15.9850, 0.2982, 0.5934.

# 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

15.9850, 0.2982, 0.5934

### Protanopia

15.7289, 0.4397, 0.4891

### Deuteranopia

15.6808, 0.4555, 0.4486



## Tritanopia

16.0977, 0.2374, 0.3068

# Trichromacy



## Original Color

15.9850, 0.2982, 0.5934

## Protanomaly

14.6689, 0.3648, 0.5459

## Deuteranomaly

14.1673, 0.3730, 0.5187

## Tritanomaly

15.4435, 0.2625, 0.4228

# Monochromacy



## Original Color

15.9850, 0.2982, 0.5934

## Achromatopsia

7.4214, 0.3127, 0.3290

## Achromatomaly

9.2666, 0.3027, 0.4621

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 15.9850, 0.2982, 0.5934 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(0, 130, 9)` looks like.

```
.text, #text, p{  
    color:rgb(0, 130, 9)  
}
```

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(0, 130, 9) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 130, 9) }
```

## Border

The CSS property to change the border of an element to Yxy 15.9850, 0.2982, 0.5934 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(0, 130, 9) }
```

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

```
.border{ border-color:rgb(0, 130, 9) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 130, 9)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 130, 9); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 130, 9); box-shadow:4px  
4px 4px 4px rgb(0, 130, 9) }
```



# Background

The CSS property to change the background color of an element to Yxy 15.9850, 0.2982, 0.5934 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 130, 9) }
```

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

```
.background{ background-color: rgb(0, 130,  
9) }
```

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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