

# Converting Colors

$Y_{xy}(27.9782, 0.3347, 0.5648)$

Have a look what the booklet for  
Yxy(27.9782, 0.3347, 0.5648)  
contains.

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**Color**

**Yxy(27.9782, 0.3347, 0.5648)**

# Conversions

## Conversions Part 1

Format	Color
Hex	51A30F
RGB	81, 163, 15
RGB Percent	32%, 64%, 6%
CMY	0.6822, 0.3608, 0.9411
CMYK	0.50, 0.00, 0.91, 0.36
HSL	93°, 83%, 35%
HSV	93°, 91%, 64%
XYZ	16.5799, 27.9782, 4.9784
YIQ	121.6100, -1.3640, -63.4120

# Conversions

## Conversions Part 2

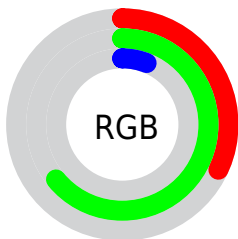
<b>Format</b>	<b>Color</b>
<b>RYB</b>	15, 163, 97
Decimal	5350159
CIELab	59.87, -47.65, 59.29
CIELCh	60, 76.066, 128.786
Yxy	27.9782, 0.3347, 0.5648
Android (android.graphics.Color)	4283540239 (0xFF51A30F)
YUV	121.6100, -52.5587, -35.6150
Hunter-Lab	52.8944, -36.6141, 31.4457

# Details

The Yxy color **27.9782, 0.3347, 0.5648** is a dark color, and the websafe version is hex **339900**. A complement of this color would be **5.5254, 0.2237, 0.1056**, and the grayscale version is **19.5079, 0.3127, 0.3290**.

A 20% lighter version of the original color is **56.6164, 0.3381, 0.5148**, and **11.2035, 0.3028, 0.5977** is the 20% darker color. If you saturate the color by 10%, you get **27.5996, 0.3302, 0.5760**, and if you desaturate by 10%, it is **28.4714, 0.3384, 0.5483**.

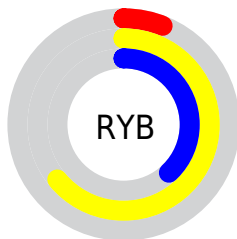
# Distribution



Red (32%)

Green (64%)

Blue (6%)



Red (6%)

Yellow (64%)

Blue (38%)

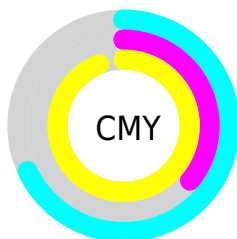


Cyan (50%)

Magenta (0%)

Yellow (91%)

Black (36%)



Cyan (68%)

Magenta (36%)

Yellow (94%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 27.9782, 0.3347, 0.5648 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 27.9782, 0.3347, 0.5648 by changing the saturation by 10% instead.





 27.9782, 0.3347,  
0.5648


 27.9782, 0.3347,  
0.5648


292.3627, 0.3338,  
0.4319


 18.3092, 0.3287,  
0.6000


 56.4496, 0.3383,  
0.5141

 11.1722, 0.3165,  
0.6453


 76.0209, 0.3383,  
0.4956


 6.1828, 0.2936,  
0.7064

 99.6617, 0.3379,  
0.4803

 2.9566, 0.2394,  
0.7606

 127.7564, 0.3372,  
0.4674

 1.1091, 0.0000,  
1.0000

 160.6895, 0.3364,  
0.4565


 0.0000, 0.0000,  
0.0000


 198.8453, 0.3355,

0.4472


 242.6083, 0.3347,  
0.4390


 27.9782, 0.3347,  
0.5648


 27.9782, 0.3347,  
0.5648

 27.5996, 0.3302,  
0.5760

 28.4714, 0.3384,  
0.5483

 29.0619, 0.3401,  
0.5263

 29.7587, 0.3399,  
0.5002

 30.5682, 0.3378,  
0.4713

 31.4966, 0.3343,  
0.4413

■ 32.5493, 0.3298,  
0.4114

■ 33.7314, 0.3245,  
0.3827

■ 35.0478, 0.3189,  
0.3557

■ 36.5028, 0.3132,  
0.3309

# Harmonies

## Analogous

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



27.9782, 0.4403, 0.5164



27.9782, 0.3347, 0.5648



27.9782, 0.2291, 0.5019

# Triad

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



27.9782, 0.3347, 0.5648



27.9782, 0.1276, 0.1747



27.9782, 0.4923, 0.2784

# Complementary

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



27.9782, 0.3347, 0.5648



5.5254, 0.2237, 0.1056

# 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.



27.9782, 0.3688, 0.2154



27.9782, 0.3347, 0.5648



27.9782, 0.1673, 0.1586

# Square

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



27.9782, 0.3347, 0.5648



27.9782, 0.1217, 0.2333



27.9782, 0.2477, 0.1733



27.9782, 0.5504, 0.3513



# Rectangle

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



27.9782, 0.3347, 0.5648



27.9782, 0.1733, 0.4034



27.9782, 0.2477, 0.1733



27.9782, 0.4553, 0.2558

# Sweetspot

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



27.9794, 0.3347, 0.5648



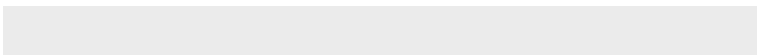
58.9660, 0.3281, 0.4018



16.2603, 0.5076, 0.4252



13.0957, 0.3298, 0.4112



82.7571, 0.3127, 0.3290



14.7319, 0.3127, 0.3290



# Same Dimension

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



27.9794, 0.3347, 0.5648



49.3155, 0.3290, 0.5770



26.3546, 0.2990, 0.5862



8.0425, 0.3180, 0.3518



21.4770, 0.3309, 0.5755



0.4792, 0.3610, 0.5516



# Inverse Universe

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



5.5254, 0.2237, 0.1056



8.5318, 0.2124, 0.0944



10.5149, 0.3322, 0.1644



7.0442, 0.3070, 0.3064



3.7820, 0.2150, 0.0958



0.1070, 0.2538, 0.1172



# Previews

## White Background



This preview shows how the Yxy color 27.9782, 0.3347, 0.5648 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 27.9782, 0.3347, 0.5648 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

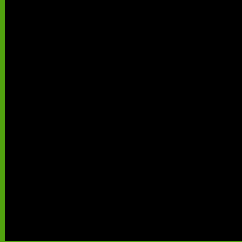
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 27.9782, 0.3347, 0.5648**

## Background



This preview shows how black text looks on a background with the Yxy color 27.9782, 0.3347, 0.5648.



This preview shows how white text looks on a background with the Yxy color 27.9782, 0.3347, 0.5648.

# 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

27.9782, 0.3347, 0.5648

### Protanopia

27.6279, 0.4401, 0.4888

### Deuteranopia

27.4390, 0.4590, 0.4507



## Tritanopia

28.0204, 0.2590, 0.3085

# Trichromacy



## Original Color

27.9782, 0.3347, 0.5648

## Protanomaly

27.1307, 0.3980, 0.5199

## Deuteranomaly

26.5709, 0.4100, 0.4955

## Tritanomaly

27.3356, 0.2953, 0.4157

# Monochromacy



## Original Color

27.9782, 0.3347, 0.5648

## Achromatopsia

19.4618, 0.3127, 0.3290

## Achromatomaly

21.6417, 0.3334, 0.4354

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 27.9782, 0.3347, 0.5648 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(81, 163, 15)` looks like.

```
.text, #text, p{  
    color:rgb(81, 163, 15)  
}
```

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(81, 163, 15) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 163, 15) }
```

## Border

The CSS property to change the border of an element to Yxy 27.9782, 0.3347, 0.5648 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(81, 163, 15) }
```

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

```
.border{ border-color:rgb(81, 163, 15) }
```

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

Here you see how a box with a 4 pixel `rgb(81, 163, 15)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 163, 15); -webkit-box-  
shadow:4px 4px 4px 4px rgb(81, 163, 15);  
box-shadow:4px 4px 4px 4px rgb(81, 163,  
15) }
```



# Background

The CSS property to change the background color of an element to Yxy 27.9782, 0.3347, 0.5648 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 163, 15) }
```

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

```
.background{ background-color: rgb(81, 163,  
15) }
```

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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