

# Converting Colors

$Y_{xy}(61.9770, 0.3003, 0.5932)$

Have a look what the booklet for  
Yxy(61.9770, 0.3003, 0.5932)  
contains.

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**Color**

**Yxy(61.9770, 0.3003, 0.5932)**

# Conversions

## Conversions Part 1

Format	Color
Hex	17EF17
RGB	23, 239, 23
RGB Percent	9%, 94%, 9%
CMY	0.9099, 0.0627, 0.9092
CMYK	0.90, 0.00, 0.90, 0.06
HSL	120°, 87%, 51%
HSV	120°, 90%, 94%
XYZ	31.3751, 61.9770, 11.1270
YIQ	149.7920, -59.4000, -112.9680

# Conversions

## Conversions Part 2

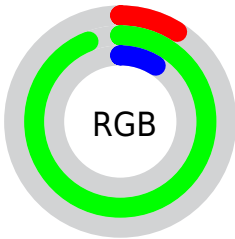
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	23, 239, 239
Decimal	1568535
CIE Lab	82.90, -80.74, 77.01
CIE LCh	83, 111.581, 136.354
Yxy	61.9770, 0.3003, 0.5932
Android (android.graphics.Color)	4279758615 (0xFF17EF17)
YUV	149.7920, -62.5085, -111.1966
Hunter-Lab	78.7255, -66.6306, 46.7278

# Details

The Yxy color **61.9770, 0.3003, 0.5932** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **25.1841, 0.3210, 0.1571**, and the grayscale version is **30.7000, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.2865, 0.3133, 0.5255**, and **33.0477, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **61.7357, 0.3000, 0.6000**, and if you desaturate by 10%, it is **62.5421, 0.3010, 0.5783**.

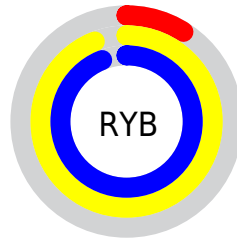
# Distribution



Red (9%)

Green (94%)

Blue (9%)



Red (9%)

Yellow (94%)

Blue (94%)

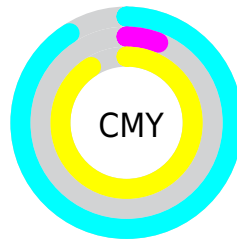


Cyan (90%)

Magenta (0%)

Yellow (90%)

Black (6%)



Cyan (91%)

Magenta (6%)


Yellow (91%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 61.9770, 0.3003, 0.5932 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 61.9770, 0.3003, 0.5932 by changing the saturation by 10% instead.




 61.9770, 0.3003,  
0.5932


 61.9770, 0.3003,  
0.5932


431.8472, 0.3188,  
0.4588


 45.0141, 0.2918,  
0.6244


 107.6923, 0.3100,  
0.5455


 31.4685, 0.2791,  
0.6621


 137.2135, 0.3128,  
0.5271

 20.9559, 0.2594,  
0.7071


 171.6896, 0.3147,  
0.5114


 13.0918, 0.2316,  
0.7684

 211.5049, 0.3162,  
0.4979

 7.4918, 0.1825,  
0.8175

 257.0440, 0.3172,  
0.4862

 3.7715, 0.1042,  
0.8958

 308.6911, 0.3179,

 1.5466, 0.0000,

0.4759

1.0000

366.8307, 0.3184,  
0.4668

■ 0.3212, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 61.9770, 0.3003,  
0.5932

■ 61.9770, 0.3003,  
0.5932

■ 61.7357, 0.3000,  
0.6000


■ 62.5421, 0.3010,  
0.5783


■ 63.5200, 0.3021,  
0.5548


■ 64.9731, 0.3035,  
0.5243


■ 66.9510, 0.3051,  
0.4896

 69.4975, 0.3068,  
0.4534

 72.6516, 0.3085,  
0.4182

 76.4489, 0.3100,  
0.3854

 80.9223, 0.3114,  
0.3559

 86.1023, 0.3127,  
0.3299

# Harmonies

## Analogous

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



61.9770, 0.4170, 0.5520



61.9770, 0.3003, 0.5932



61.9770, 0.1920, 0.4872

# Triad

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



61.9770, 0.3003, 0.5932



61.9770, 0.1198, 0.1526



61.9770, 0.5392, 0.2896

# Complementary

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



61.9770, 0.3003, 0.5932



25.1841, 0.3210, 0.1571

# 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.



61.9770, 0.4122, 0.2197



61.9770, 0.3003, 0.5932



61.9770, 0.1712, 0.1455

# Square

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



61.9770, 0.3003, 0.5932



61.9770, 0.1044, 0.1997



61.9770, 0.2697, 0.1686



61.9770, 0.5744, 0.3672



# Rectangle

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



61.9770, 0.3003, 0.5932



61.9770, 0.1411, 0.3666



61.9770, 0.2697, 0.1686



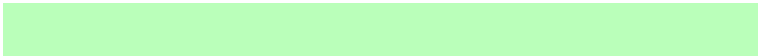
61.9770, 0.5044, 0.2652

# Sweetspot

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



61.9796, 0.3003, 0.5932



85.5320, 0.3090, 0.4071



80.1484, 0.4176, 0.5024



18.0039, 0.3085, 0.4186



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.



61.9796, 0.3003, 0.5932



71.5205, 0.3000, 0.6000



63.5554, 0.2701, 0.4861



17.6566, 0.3116, 0.3534



34.1154, 0.3000, 0.5999



2.8382, 0.2999, 0.5998



# Inverse Universe

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



25.1841, 0.3210, 0.1571



28.4657, 0.3211, 0.1543



20.6013, 0.4765, 0.2454



16.0312, 0.3138, 0.3058



13.5783, 0.3211, 0.1543

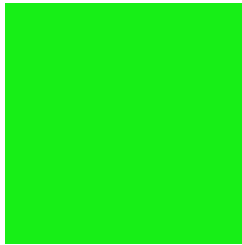


1.1297, 0.3211, 0.1543



# Previews

## White Background



This preview shows how the Yxy color 61.9770, 0.3003, 0.5932 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

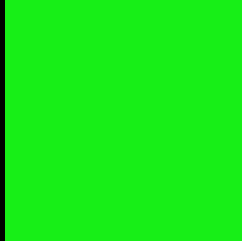
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 61.9770, 0.3003, 0.5932 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

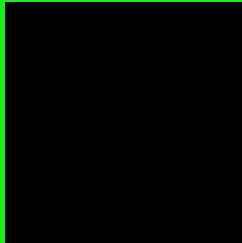
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 61.9770, 0.3003, 0.5932**

## **Background**



This preview shows how black text looks on a background with the Yxy color 61.9770, 0.3003, 0.5932.



This preview shows how white text looks on a background with the Yxy color 61.9770, 0.3003, 0.5932.

# 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

61.9770, 0.3003, 0.5932

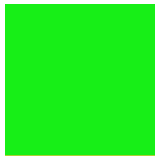
### Deuteranopia

60.2609, 0.4538, 0.4441

### Tritanopia

61.3586, 0.2361, 0.3061

# Trichromacy



## Original Color

61.9770, 0.3003, 0.5932



## Deuteranomaly

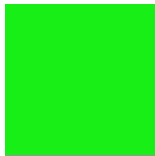
54.9990, 0.3775, 0.5131



## Tritanomaly

59.4765, 0.2644, 0.4259

# Monochromacy



## Original Color

61.9770, 0.3003, 0.5932



## Achromatopsia

30.4987, 0.3127, 0.3290



## Achromatomaly

37.3984, 0.3066, 0.4598

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 61.9770, 0.3003, 0.5932 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(23, 239, 23)` looks like.

```
.text, #text, p{  
    color:rgb(23, 239, 23)  
}
```

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(23, 239, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(23, 239, 23) }
```

## Border

The CSS property to change the border of an element to Yxy 61.9770, 0.3003, 0.5932 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(23, 239, 23) }
```

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

```
.border{ border-color:rgb(23, 239, 23) }
```

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

Here you see how a box with a 4 pixel `rgb(23, 239, 23)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(23, 239, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(23, 239, 23);  
box-shadow:4px 4px 4px 4px rgb(23, 239,  
23) }
```

# Background

The CSS property to change the background color of an element to Yxy 61.9770, 0.3003, 0.5932 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(23, 239, 23) }
```

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

```
.background{ background-color: rgb(23, 239,  
23) }
```

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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