

# Converting Colors

$Y_{xy}(17.8893, 0.2632, 0.7066)$

Have a look what the booklet for  
Yxy(17.8893, 0.2632, 0.7066)  
contains.

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**Color**

**Yxy(19.3460, 0.3000, 0.6000)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	008E00
RGB	0, 142, 0
RGB Percent	0%, 56%, 0%
CMY	1.0000, 0.4431, 1.0000
CMYK	1.00, 0.00, 1.00, 0.44
HSL	120°, 100%, 28%
HSV	120°, 100%, 56%
XYZ	9.6730, 19.3460, 3.2243
YIQ	83.3540, -39.0500, -74.2660

# Conversions

## Conversions Part 2

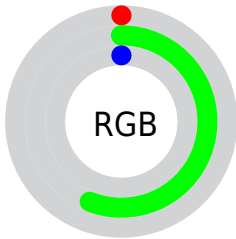
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 142, 142
Decimal	36352
CIELab	51.09, -55.74, 53.80
CIELCh	51, 77.464, 136.016
Yxy	19.3460, 0.3000, 0.6000
Android (android.graphics.Color)	4278226432 (0xFF008E00)
YUV	83.3540, -41.0935, -73.1015
Hunter-Lab	43.9841, -37.7164, 26.4425

# Details

The Yxy color **19.3460, 0.3000, 0.6000** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **7.7038, 0.3209, 0.1542**, and the grayscale version is **8.8185, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.3162, 0.3129, 0.5336**, and **7.3123, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **19.3468, 0.3000, 0.6000**, and if you desaturate by 10%, it is **19.4740, 0.3005, 0.5889**.

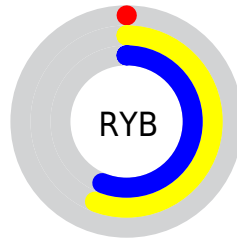
# Distribution



Red (0%)

Green (56%)

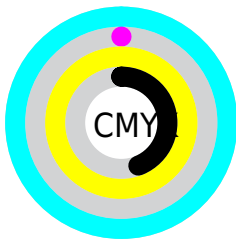
Blue (0%)



Red (0%)

Yellow (56%)

Blue (56%)

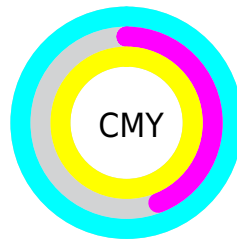


Cyan (100%)

Magenta (0%)

Yellow (100%)

Black (44%)



Cyan (100%)

Magenta (44%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.3460, 0.3000, 0.6000 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 19.3460, 0.3000, 0.6000 by changing the saturation by 10% instead.





 19.3460, 0.3000,  
0.6000


 19.3460, 0.3000,  
0.6000


248.3523, 0.3201,  
0.4357


 11.9206, 0.2854,  
0.6488


 42.3179, 0.3130,  
0.5334

 6.6896, 0.2662,  
0.7338


 58.6332, 0.3159,  
0.5104

 3.2687, 0.2080,  
0.7920

 78.6806, 0.3177,  
0.4918

 1.2736, 0.0000,  
1.0000

 102.8444, 0.3188,  
0.4765

 0.1206, 0.0000,  
1.0000


 131.5091, 0.3194,  
0.4637

 0.0000, 0.0000,  
0.0000


 165.0590, 0.3198,


0.4529

 203.8786, 0.3200,  
0.4437


 19.3460, 0.3000,  
0.6000

 19.3460, 0.3000,  
0.6000


 19.3468, 0.3000,  
0.6000

 19.4740, 0.3005,  
0.5889

 19.6852, 0.3013,  
0.5716

 20.0233, 0.3025,  
0.5466

 20.5043, 0.3039,  
0.5158

 21.1414, 0.3055,  
0.4817

■ 21.9467, 0.3072,  
0.4469

■ 22.9307, 0.3088,  
0.4132

■ 24.1035, 0.3102,  
0.3820

■ 25.4740, 0.3115,  
0.3538

# Harmonies

## Analogous

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



19.3460, 0.4184, 0.5543



19.3460, 0.3000, 0.6000



19.3460, 0.1901, 0.4935

# Triad

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



19.3460, 0.3000, 0.6000



19.3460, 0.1166, 0.1500



19.3460, 0.5431, 0.2874

# Complementary

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



19.3460, 0.3000, 0.6000



7.7038, 0.3209, 0.1542

# 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.



19.3460, 0.4125, 0.2170



19.3460, 0.3000, 0.6000



19.3460, 0.1679, 0.1426

# Square

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



19.3460, 0.3000, 0.6000



19.3460, 0.1014, 0.1978



19.3460, 0.2672, 0.1657



19.3460, 0.5793, 0.3653



# Rectangle

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



19.3460, 0.3000, 0.6000



19.3460, 0.1385, 0.3690



19.3460, 0.2672, 0.1657



19.3460, 0.5072, 0.2628

# Sweetspot

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



19.3468, 0.3000, 0.6000



40.3170, 0.3087, 0.4152



25.0978, 0.4193, 0.5053



8.8552, 0.3081, 0.4275



71.0566, 0.3127, 0.3290



10.6539, 0.3127, 0.3290



# Same Dimension

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



19.3468, 0.3000, 0.6000



34.1151, 0.3000, 0.6000



19.8017, 0.2714, 0.4972



6.0294, 0.3117, 0.3517



17.3699, 0.3000, 0.6000



0.1661, 0.3000, 0.6000



# Inverse Universe

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



7.7038, 0.3209, 0.1542



13.5844, 0.3209, 0.1542



6.2060, 0.4915, 0.2481



5.5110, 0.3137, 0.3073



6.9166, 0.3209, 0.1542

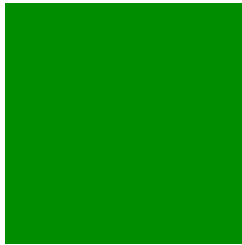


0.0661, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 19.3460, 0.3000, 0.6000 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

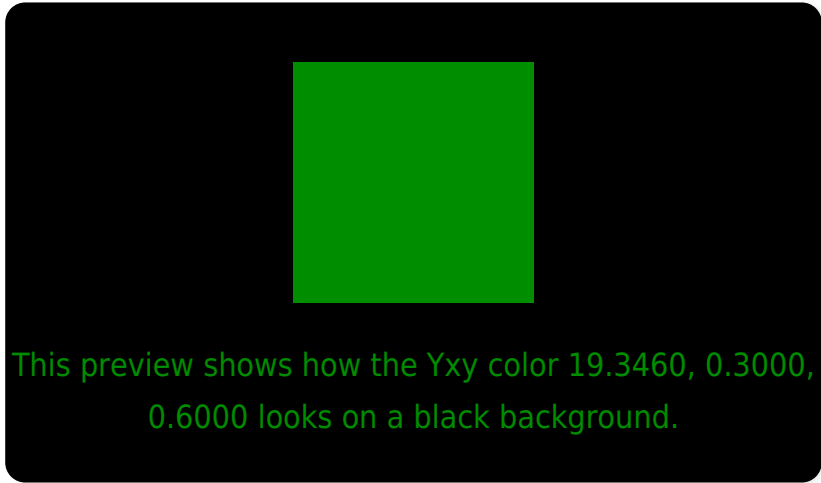
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



## 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 19.3460, 0.3000, 0.6000**

## **Background**



This preview shows how black text looks on a background with the Yxy color 19.3460, 0.3000, 0.6000.



This preview shows how white text looks on a background with the Yxy color 19.3460, 0.3000, 0.6000.

# 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

19.3460, 0.3000, 0.6000

### Protanopia

19.2374, 0.4394, 0.4893

### Deuteranopia

19.0358, 0.4567, 0.4499



## Tritanopia

19.4464, 0.2375, 0.3064

# Trichromacy



## Original Color

19.3460, 0.3000, 0.6000



## Protanomaly

17.7268, 0.3646, 0.5487



## Deuteranomaly

17.2591, 0.3756, 0.5232



## Tritanomaly

18.7757, 0.2661, 0.4348

# Monochromacy



## Original Color

19.3460, 0.3000, 0.6000



## Achromatopsia

8.6500, 0.3127, 0.3290



## Achromatomaly

10.9146, 0.3060, 0.4729

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.3460, 0.3000, 0.6000 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, 142, 0)` looks like.

```
.text, #text, p{  
    color:rgb(0, 142, 0)  
}
```

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, 142, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 142, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 19.3460, 0.3000, 0.6000 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, 142, 0) }
```

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

```
.border{ border-color:rgb(0, 142, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 142, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 142, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 142, 0); box-shadow:4px  
4px 4px 4px rgb(0, 142, 0) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.3460, 0.3000, 0.6000 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 142, 0) }
```

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

```
.background{ background-color: rgb(0, 142,  
0) }
```

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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