

# Converting Colors

$Y_{xy}(30.8658, 0.3012, 0.5991)$

Have a look what the booklet for  
Yxy(30.8658, 0.3012, 0.5991)  
contains.

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**Color**

**Yxy(30.7180, 0.3012, 0.5991)**

# Conversions

## Conversions Part 1

Format	Color
Hex	09AF00
RGB	9, 175, 0
RGB Percent	4%, 69%, 0%
CMY	0.9641, 0.3137, 1.0000
CMYK	0.95, 0.00, 1.00, 0.31
HSL	117°, 100%, 34%
HSV	117°, 100%, 69%
XYZ	15.4436, 30.7180, 5.1120
YIQ	105.4160, -42.7610, -89.6170

# Conversions

## Conversions Part 2

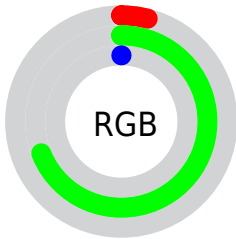
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 175, 166
Decimal	634624
CIELab	62.27, -64.53, 62.80
CIELCh	62, 90.039, 135.779
Yxy	30.7180, 0.3012, 0.5991
Android (android.graphics.Color)	4278824704 (0xFF09AF00)
YUV	105.4160, -51.9701, -84.5568
Hunter-Lab	55.4238, -47.2535, 33.3281

# Details

The Yxy color **30.7180, 0.3012, 0.5991** is a dark color, and the websafe version is hex **33CC33**. A complement of this color would be **11.1852, 0.3079, 0.1470**, and the grayscale version is **14.4124, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.8739, 0.3130, 0.5402**, and **13.6747, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **30.7195, 0.3012, 0.5991**, and if you desaturate by 10%, it is **30.9187, 0.3022, 0.5894**.

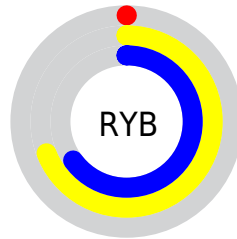
# Distribution



Red (4%)

Green (69%)

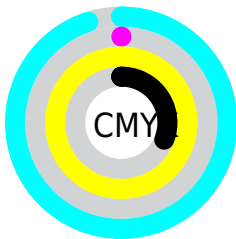
Blue (0%)



Red (0%)

Yellow (69%)

Blue (65%)

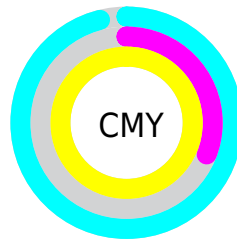


Cyan (95%)

Magenta (0%)

Yellow (100%)

Black (31%)



Cyan (96%)

Magenta (31%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.7180, 0.3012, 0.5991 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 30.7180, 0.3012, 0.5991 by changing the saturation by 10% instead.





 30.7180, 0.3012,  
0.5991


 30.7180, 0.3012,  
0.5991


305.2370, 0.3205,  
0.4459


 20.3842, 0.2894,  
0.6399


 60.7958, 0.3129,  
0.5404

 12.6746, 0.2698,  
0.6918


 81.3086, 0.3157,  
0.5191

 7.2049, 0.2378,  
0.7622


 105.9832, 0.3176,  
0.5015

 3.5906, 0.1762,  
0.8238

 135.2040, 0.3188,  
0.4867

 1.4473, 0.0000,  
1.0000

 169.3554, 0.3196,  
0.4741

 0.2512, 0.0000,  
1.0000


 208.8218, 0.3200,


 0.0000, 0.0000,


0.4634


0.0000


 253.9875, 0.3203,  
0.4541

 30.7180, 0.3012,  
0.5991


 30.7180, 0.3012,  
0.5991


 30.7195, 0.3012,  
0.5991

 30.9187, 0.3022,  
0.5894

 31.2809, 0.3039,  
0.5725

 31.8400, 0.3056,  
0.5479

 32.6185, 0.3072,  
0.5172

 33.6361, 0.3087,  
0.4832

■ 34.9103, 0.3100,  
0.4482

■ 36.4567, 0.3110,  
0.4143

■ 38.2899, 0.3118,  
0.3828

■ 40.4233, 0.3123,  
0.3542

# Harmonies

## Analogous

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



30.7180, 0.4193, 0.5531



30.7180, 0.3012, 0.5991



30.7180, 0.1913, 0.4942

# Triad

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



30.7180, 0.3012, 0.5991



30.7180, 0.1168, 0.1506



30.7180, 0.5416, 0.2870

# Complementary

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



30.7180, 0.3012, 0.5991



11.1852, 0.3079, 0.1470

# 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.



30.7180, 0.4110, 0.2168



30.7180, 0.3012, 0.5991



30.7180, 0.1677, 0.1430

# Square

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



30.7180, 0.3012, 0.5991



30.7180, 0.1019, 0.1988



30.7180, 0.2663, 0.1658



30.7180, 0.5787, 0.3648



# Rectangle

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



30.7180, 0.3012, 0.5991



30.7180, 0.1395, 0.3704



30.7180, 0.2663, 0.1658



30.7180, 0.5056, 0.2625

# Sweetspot

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



30.7195, 0.3012, 0.5991



65.1357, 0.3110, 0.4160



35.4274, 0.4314, 0.4957



14.2117, 0.3106, 0.4298



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290



# Same Dimension

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



30.7195, 0.3012, 0.5991



54.9881, 0.3009, 0.5993



31.1799, 0.2783, 0.5218



8.9586, 0.3124, 0.3524



22.0074, 0.3014, 0.5989



0.6186, 0.3077, 0.5939



# Inverse Universe

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



11.1852, 0.3079, 0.1470



20.0013, 0.3077, 0.1469



10.0181, 0.4671, 0.2347



8.1264, 0.3130, 0.3066



8.0184, 0.3081, 0.1471

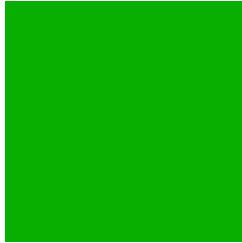


0.2294, 0.3122, 0.1494



# Previews

## White Background



This preview shows how the Yxy color 30.7180, 0.3012, 0.5991 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

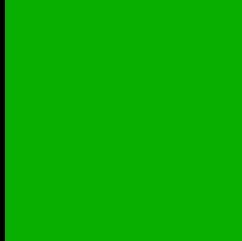
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 30.7180, 0.3012, 0.5991 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

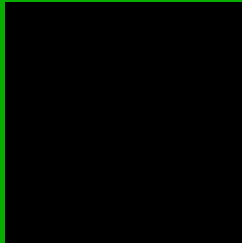
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 30.7180, 0.3012, 0.5991**

## Background



This preview shows how black text looks on a background with the Yxy color 30.7180, 0.3012, 0.5991.



This preview shows how white text looks on a background with the Yxy color 30.7180, 0.3012, 0.5991.

# 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

30.7180, 0.3012, 0.5991

### Protanopia

30.2477, 0.4404, 0.4885

### Deuteranopia

30.1773, 0.4593, 0.4506



## Tritanopia

30.7848, 0.2369, 0.3069

# Trichromacy



**Original Color**

30.7180, 0.3012, 0.5991



**Protanomaly**

28.1758, 0.3675, 0.5464



**Deuteranomaly**

27.3881, 0.3797, 0.5229



**Tritanomaly**

29.4854, 0.2671, 0.4361

# Monochromacy



**Original Color**

30.7180, 0.3012, 0.5991



**Achromatopsia**

14.1263, 0.3127, 0.3290



**Achromatomaly**

17.6726, 0.3088, 0.4737

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.7180, 0.3012, 0.5991 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(9, 175, 0)` looks like.

```
.text, #text, p{  
    color:rgb(9, 175, 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(9, 175, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(9, 175, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 30.7180, 0.3012, 0.5991 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(9, 175, 0) }
```

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

```
.border{ border-color:rgb(9, 175, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(9, 175, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(9, 175, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(9, 175, 0); box-shadow:4px  
4px 4px 4px rgb(9, 175, 0) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.7180, 0.3012, 0.5991 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(9, 175, 0) }
```

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

```
.background{ background-color: rgb(9, 175,  
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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