

# Converting Colors

$Y_{xy}(71.6330, 0.3023, 0.5981)$

Have a look what the booklet for  
Yxy(71.6330, 0.3023, 0.5981)  
contains.

<b>Yxy(71.7960, 0.3024, 0.5981)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

**Color**

**Yxy(71.7960, 0.3024, 0.5981)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1EFF00
RGB	30, 255, 0
RGB Percent	12%, 100%, 0%
CMY	0.8815, 0.0000, 1.0000
CMYK	0.88, 0.00, 1.00, 0.00
HSL	113°, 100%, 50%
HSV	113°, 100%, 100%
XYZ	36.3001, 71.7960, 11.9440
YIQ	158.6550, -52.2450, -127.0050

# Conversions

## Conversions Part 2

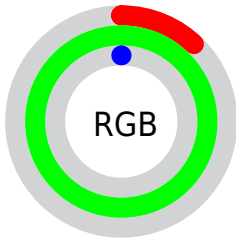
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 255, 225
Decimal	2031360
CIELab	87.87, -84.95, 83.35
CIELCh	88, 119.010, 135.546
Yxy	71.7960, 0.3024, 0.5981
Android (android.graphics.Color)	4280221440 (0xFF1EFF00)
YUV	158.6550, -78.2169, -112.8304
Hunter-Lab	84.7325, -71.8110, 50.9552

# Details

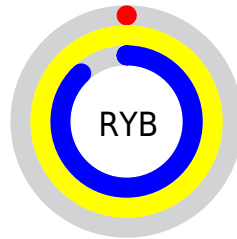
The Yxy color **71.7960, 0.3024, 0.5981** is a dark color, and the websafe version is hex **00FF00**. The color can be described as dark saturated green. A complement of this color would be **23.1936, 0.2906, 0.1375**, and the grayscale version is **34.9199, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.7283, 0.3181, 0.5273**, and **39.4799, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **71.7988, 0.3024, 0.5981**, and if you desaturate by 10%, it is **72.3408, 0.3048, 0.5897**.

# Distribution



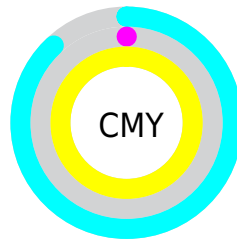
- Red (12%)
- Green (100%)
- Blue (0%)



- Red (0%)
- Yellow (100%)
- Blue (88%)



- Cyan (88%)
- Magenta (0%)
- Yellow (100%)
- Black (0%)




- Cyan (88%)
- Magenta (0%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 71.7960, 0.3024, 0.5981 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 71.7960, 0.3024, 0.5981 by changing the saturation by 10% instead.




 71.7960, 0.3024,  
0.5981


 71.7960, 0.3024,  
0.5981

466.8312, 0.3206,  
0.4652

 52.9920, 0.2942,  
0.6278


 121.7665, 0.3119,  
0.5519

 37.7964, 0.2821,  
0.6630


 153.7017, 0.3146,  
0.5338

 25.8247, 0.2639,  
0.7044

 190.7829, 0.3166,  
0.5182

 16.6926, 0.2391,  
0.7609

 233.3944, 0.3180,  
0.5047

 10.0155, 0.1951,  
0.8049

 281.9206, 0.3190,  
0.4929

 5.4093, 0.1370,  
0.8630

 336.7459, 0.3197,

 2.4893, 0.0000,

0.4826

1.0000

398.2546, 0.3202,  
0.4734

■ 0.8713, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 71.7960, 0.3024,  
0.5981

■ 71.7960, 0.3024,  
0.5981

■ 71.7988, 0.3024,  
0.5981

■ 72.3408, 0.3048,  
0.5897


■ 73.2618, 0.3074,  
0.5735


■ 74.6262, 0.3098,  
0.5494

■ 76.4820, 0.3117,  
0.5192

 78.8707, 0.3130,  
0.4852

 81.8293, 0.3138,  
0.4501

 85.3917, 0.3140,  
0.4158

 89.5890, 0.3138,  
0.3838

 94.4500, 0.3134,  
0.3548

# Harmonies

## Analogous

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



71.7960, 0.4202, 0.5518



71.7960, 0.3024, 0.5981



71.7960, 0.1926, 0.4948

# Triad

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



71.7960, 0.3024, 0.5981



71.7960, 0.1171, 0.1514



71.7960, 0.5400, 0.2867

# Complementary

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



71.7960, 0.3024, 0.5981



23.1936, 0.2906, 0.1375

# 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.



71.7960, 0.4094, 0.2167



71.7960, 0.3024, 0.5981



71.7960, 0.1676, 0.1434

# Square

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



71.7960, 0.3024, 0.5981



71.7960, 0.1024, 0.1999



71.7960, 0.2656, 0.1659



71.7960, 0.5780, 0.3644



# Rectangle

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



71.7960, 0.3024, 0.5981



71.7960, 0.1405, 0.3717



71.7960, 0.2656, 0.1659



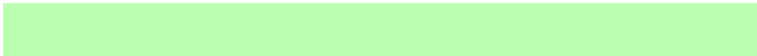
71.7960, 0.5039, 0.2622

# Sweetspot

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



71.7990, 0.3024, 0.5981



85.3905, 0.3140, 0.4159



72.9733, 0.4455, 0.4845



17.9394, 0.3140, 0.4301



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.



71.7990, 0.3024, 0.5981



71.7992, 0.3024, 0.5981



72.3190, 0.2849, 0.5457



20.2712, 0.3134, 0.3534



37.5489, 0.3029, 0.5977



3.6874, 0.3081, 0.5936



# Inverse Universe

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



23.1936, 0.2906, 0.1375



23.1933, 0.2906, 0.1375



23.8511, 0.4434, 0.2216



18.1847, 0.3119, 0.3054



12.1624, 0.2911, 0.1377

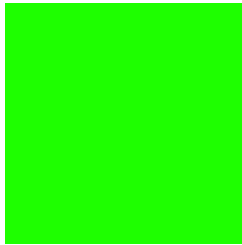


1.2138, 0.2947, 0.1397



# Previews

## White Background



This preview shows how the Yxy color 71.7960, 0.3024, 0.5981 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

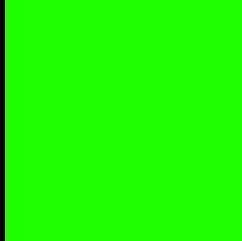
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 71.7960, 0.3024, 0.5981 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

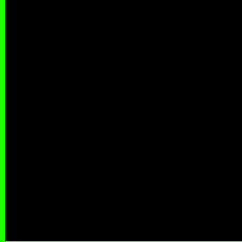
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 71.7960, 0.3024, 0.5981**

## **Background**



This preview shows how black text looks on a background with the Yxy color 71.7960, 0.3024, 0.5981.



This preview shows how white text looks on a background with the Yxy color 71.7960, 0.3024, 0.5981.

# 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

71.7960, 0.3024, 0.5981

### Protanopia

70.2559, 0.4404, 0.4885

### Deuteranopia

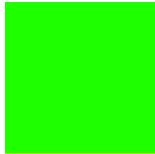
69.8621, 0.3961, 0.3978



## Tritanopia

70.9239, 0.2386, 0.3063

# Trichromacy



## Original Color

71.7960, 0.3024, 0.5981



## Protanomaly

66.0381, 0.3707, 0.5439



## Deuteranomaly

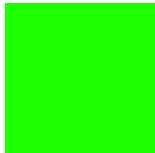
64.5951, 0.3550, 0.4917



## Tritanomaly

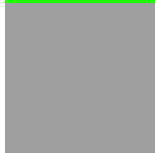
68.6411, 0.2710, 0.4396

# Monochromacy



## Original Color

71.7960, 0.3024, 0.5981



## Achromatopsia

34.6704, 0.3127, 0.3290



## Achromatomaly

42.9679, 0.3133, 0.4753

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 71.7960, 0.3024, 0.5981 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(30, 255, 0)` looks like.

```
.text, #text, p{  
    color:rgb(30, 255, 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(30, 255, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(30, 255, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 71.7960, 0.3024, 0.5981 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(30, 255, 0) }
```

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

```
.border{ border-color:rgb(30, 255, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(30, 255, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(30, 255, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(30, 255, 0);  
box-shadow:4px 4px 4px 4px rgb(30, 255, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 71.7960, 0.3024, 0.5981 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(30, 255, 0) }
```

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

```
.background{ background-color: rgb(30, 255,  
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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