

# Converting Colors

$Y_{xy}(41.6391, 0.3025, 0.5980)$

Have a look what the booklet for  
Yxy(41.6391, 0.3025, 0.5980)  
contains.

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**Color**

**Yxy(41.4791, 0.3025, 0.5980)**

# Conversions

## Conversions Part 1

Format	Color
Hex	16C800
RGB	22, 200, 0
RGB Percent	9%, 78%, 0%
CMY	0.9144, 0.2157, 0.9997
CMYK	0.89, 0.00, 1.00, 0.22
HSL	113°, 100%, 39%
HSV	113°, 100%, 78%
XYZ	20.9823, 41.4791, 6.9016
YIQ	123.9780, -41.8880, -99.9360

# Conversions

## Conversions Part 2

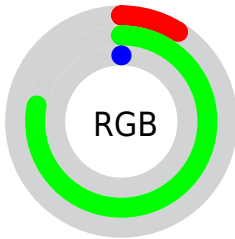
Format	Color
<b>RYB</b>	0, 200, 178
Decimal	1492992
CIELab	70.51, -70.70, 69.41
CIELCh	71, 99.081, 135.528
Yxy	41.4791, 0.3025, 0.5980
Android (android.graphics.Color)	4279683072 (0xFF16C800)
YUV	123.9780, -61.1212, -89.4347
Hunter-Lab	64.4043, -54.5538, 38.7294

# Details

The Yxy color **41.4791, 0.3025, 0.5980** is a dark color, and the websafe version is hex **00CC00**. The color can be described as dark washed green. A complement of this color would be **13.6675, 0.2935, 0.1391**, and the grayscale version is **20.3512, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.3653, 0.3134, 0.5424**, and **19.9465, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **41.4800, 0.3025, 0.5980**, and if you desaturate by 10%, it is **41.8069, 0.3047, 0.5885**.

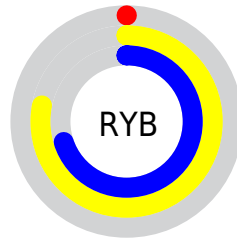
# Distribution



Red (9%)

Green (78%)

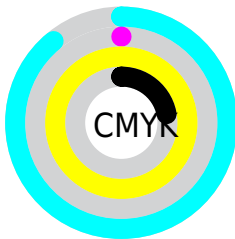
Blue (0%)



Red (0%)

Yellow (78%)

Blue (70%)

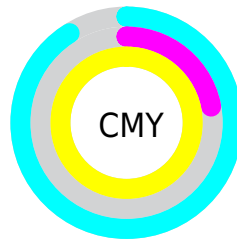


Cyan (89%)

Magenta (0%)

Yellow (100%)

Black (22%)



Cyan (91%)

Magenta (22%)

Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.4791, 0.3025, 0.5980 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 41.4791, 0.3025, 0.5980 by changing the saturation by 10% instead.





 41.4791, 0.3025,  
0.5980

 41.4791, 0.3025,  
0.5980


352.3190, 0.3210,  
0.4525


 28.6936, 0.2923,  
0.6343

 77.4107, 0.3132,  
0.5442

 18.8492, 0.2758,  
0.6787


 101.3255, 0.3160,  
0.5241

 11.5614, 0.2531,  
0.7449


 129.7190, 0.3178,  
0.5072

 6.4457, 0.2050,  
0.7950

 162.9755, 0.3191,  
0.4928

 3.1180, 0.1217,  
0.8783

 201.4793, 0.3199,  
0.4806

 1.1936, 0.0000,  
1.0000

 245.6149, 0.3204,

 0.0565, 0.0000,


0.4699


1.0000


295.7667, 0.3208,  
0.4606

 0.0000, 0.0000,  
0.0000

 41.4791, 0.3025,  
0.5980


 41.4791, 0.3025,  
0.5980

 41.4800, 0.3025,  
0.5980

 41.8069, 0.3047,  
0.5885

 42.3495, 0.3071,  
0.5716

 43.1468, 0.3093,  
0.5471

 44.2256, 0.3112,  
0.5167

 45.6093, 0.3125,  
0.4829

■ 47.3188, 0.3132,  
0.4482

■ 49.3731, 0.3136,  
0.4145

■ 51.7897, 0.3135,  
0.3829

■ 54.5849, 0.3132,  
0.3543

# Harmonies

## Analogous

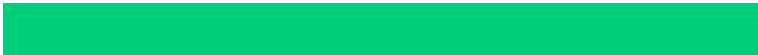
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



41.4791, 0.4203, 0.5517



41.4791, 0.3025, 0.5980



41.4791, 0.1927, 0.4948

# Triad

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



41.4791, 0.3025, 0.5980



41.4791, 0.1171, 0.1514



41.4791, 0.5399, 0.2867

# Complementary

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



41.4791, 0.3025, 0.5980



13.6675, 0.2935, 0.1391

# 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.



41.4791, 0.4093, 0.2167



41.4791, 0.3025, 0.5980



41.4791, 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.



41.4791, 0.3025, 0.5980



41.4791, 0.1025, 0.2000



41.4791, 0.2655, 0.1659



41.4791, 0.5779, 0.3643

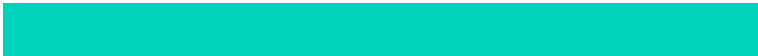


# Rectangle

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



41.4791, 0.3025, 0.5980



41.4791, 0.1406, 0.3718



41.4791, 0.2655, 0.1659



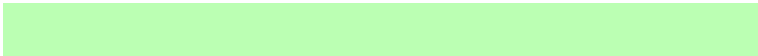
41.4791, 0.5038, 0.2622

# Sweetspot

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



41.4808, 0.3025, 0.5980



85.2968, 0.3136, 0.4160



43.5991, 0.4415, 0.4876



17.9180, 0.3135, 0.4302



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.



41.4808, 0.3025, 0.5980



71.7632, 0.3021, 0.5983



41.8444, 0.2829, 0.5384



11.9422, 0.3132, 0.3528



26.3917, 0.3029, 0.5977



1.2687, 0.3120, 0.5905



# Inverse Universe

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



13.6675, 0.2935, 0.1391



23.5934, 0.2931, 0.1388



13.7210, 0.4480, 0.2242



10.7558, 0.3121, 0.3061



8.7120, 0.2939, 0.1393

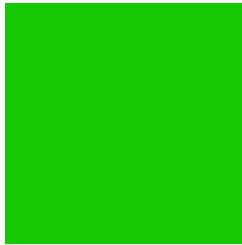


0.4297, 0.2999, 0.1426



# Previews

## White Background



This preview shows how the Yxy color 41.4791, 0.3025, 0.5980 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

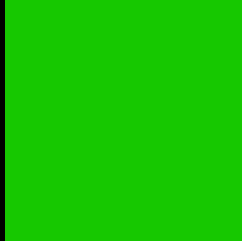
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 41.4791, 0.3025, 0.5980 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

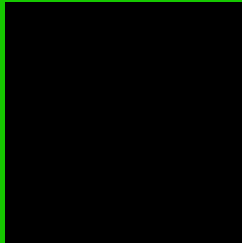
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 41.4791, 0.3025, 0.5980**

## **Background**



This preview shows how black text looks on a background with the Yxy color 41.4791, 0.3025, 0.5980.



This preview shows how white text looks on a background with the Yxy color 41.4791, 0.3025, 0.5980.

# 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

41.4791, 0.3025, 0.5980

### Protanopia

40.4633, 0.4409, 0.4881

### Deuteranopia

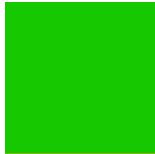
40.4622, 0.4610, 0.4508



## Tritanopia

41.3133, 0.2369, 0.3065

# Trichromacy



## Original Color

41.4791, 0.3025, 0.5980



## Protanomaly

38.2812, 0.3707, 0.5439



## Deuteranomaly

37.1495, 0.3842, 0.5209



## Tritanomaly

39.8769, 0.2693, 0.4369

# Monochromacy



## Original Color

41.4791, 0.3025, 0.5980



## Achromatopsia

20.1556, 0.3127, 0.3290



## Achromatomaly

25.0472, 0.3128, 0.4728

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.4791, 0.3025, 0.5980 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(22, 200, 0)` looks like.

```
.text, #text, p{  
    color:rgb(22, 200, 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(22, 200, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(22, 200, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 41.4791, 0.3025, 0.5980 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(22, 200, 0) }
```

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

```
.border{ border-color:rgb(22, 200, 0) }
```

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

Here you see how a box with a 4 pixel rgb(22, 200, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(22, 200, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(22, 200, 0);  
box-shadow:4px 4px 4px 4px rgb(22, 200, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 41.4791, 0.3025, 0.5980 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(22, 200, 0) }
```

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

```
.background{ background-color: rgb(22, 200,  
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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