

# Converting Colors

$Y_{xy}(48.3351, 0.2986, 0.5870)$

Have a look what the booklet for  
Yxy(48.3351, 0.2986, 0.5870)  
contains.

<b>Yxy(48.3461, 0.2987, 0.5871)</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(48.3461, 0.2987, 0.5871)**

# Conversions

## Conversions Part 1

Format	Color
Hex	14D620
RGB	20, 214, 32
RGB Percent	8%, 84%, 13%
CMY	0.9213, 0.1608, 0.8743
CMYK	0.91, 0.00, 0.85, 0.16
HSL	124°, 83%, 46%
HSV	124°, 91%, 84%
XYZ	24.5971, 48.3461, 9.4041
YIQ	135.2460, -57.2020, -97.7300

# Conversions

## Conversions Part 2

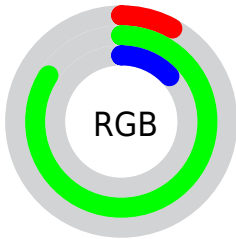
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	20, 203, 214
Decimal	1365536
CIE Lab	75.04, -73.80, 68.56
CIE LCh	75, 100.732, 137.105
Yxy	48.3461, 0.2987, 0.5871
Android (android.graphics.Color)	4279555616 (0xFF14D620)
YUV	135.2460, -50.9003, -101.0707
Hunter-Lab	69.5314, -58.5344, 40.6530

# Details

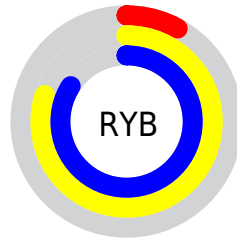
The Yxy color **48.3461, 0.2987, 0.5871** is a dark color, and the websafe version is hex **00CC00**. The color can be described as dark washed green. A complement of this color would be **19.0649, 0.3353, 0.1654**, and the grayscale version is **24.5441, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.7440, 0.3096, 0.5278**, and **24.1139, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **48.1237, 0.2991, 0.5967**, and if you desaturate by 10%, it is **48.8243, 0.2985, 0.5693**.

# Distribution



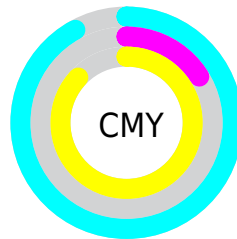
- Red (8%)
- Green (84%)
- Blue (13%)



- Red (8%)
- Yellow (80%)
- Blue (84%)



- Cyan (91%)
- Magenta (0%)
- Yellow (85%)
- Black (16%)




- Cyan (92%)
- Magenta (16%)
- Yellow (87%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.3461, 0.2987, 0.5871 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 48.3461, 0.2987, 0.5871 by changing the saturation by 10% instead.





 48.3461, 0.2987,  
0.5871


 48.3461, 0.2987,  
0.5871


380.1623, 0.3174,  
0.4499


 34.1011, 0.2896,  
0.6210


 87.7195, 0.3087,  
0.5367

 22.9712, 0.2755,  
0.6629


 113.6166, 0.3115,  
0.5178


 14.5723, 0.2533,  
0.7155


 144.1666, 0.3134,  
0.5019

 8.5198, 0.2181,  
0.7819

 179.7537, 0.3148,  
0.4883

 4.4293, 0.1584,  
0.8416

 220.7625, 0.3158,  
0.4767

 1.9165, 0.0000,  
1.0000

 267.5772, 0.3165,

 0.5583, 0.0000,

0.4665

1.0000

320.5824, 0.3170,  
0.4577

■ 0.0000, 0.0000,  
0.0000

■ 48.3461, 0.2987,  
0.5871

■ 48.3461, 0.2987,  
0.5871

■ 48.1237, 0.2991,  
0.5967

■ 48.8243, 0.2985,  
0.5693

■ 49.6171, 0.2990,  
0.5441

■ 50.7691, 0.3001,  
0.5135

■ 52.3160, 0.3018,  
0.4799

■ 54.2896, 0.3038,  
0.4457

■ 56.7180, 0.3060,  
0.4127

■ 59.6273, 0.3083,  
0.3821

■ 63.0415, 0.3105,  
0.3547

■ 66.9828, 0.3126,  
0.3304

# Harmonies

## Analogous

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



48.3461, 0.4140, 0.5513



48.3461, 0.2987, 0.5871



48.3461, 0.1921, 0.4795

# Triad

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



48.3461, 0.2987, 0.5871



48.3461, 0.1230, 0.1545



48.3461, 0.5372, 0.2927

# Complementary

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



48.3461, 0.2987, 0.5871



19.0649, 0.3353, 0.1654

# 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.



48.3461, 0.4142, 0.2230



48.3461, 0.2987, 0.5871



48.3461, 0.1750, 0.1480

# Square

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



48.3461, 0.2987, 0.5871



48.3461, 0.1070, 0.2002



48.3461, 0.2737, 0.1717



48.3461, 0.5701, 0.3700



# Rectangle

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



48.3461, 0.2987, 0.5871



48.3461, 0.1424, 0.3620



48.3461, 0.2737, 0.1717



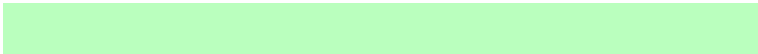
48.3461, 0.5037, 0.2683

# Sweetspot

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



48.3481, 0.2987, 0.5871



85.7131, 0.3068, 0.4021



61.0255, 0.4095, 0.5084



18.0450, 0.3060, 0.4130



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.



48.3481, 0.2987, 0.5871



71.5566, 0.2992, 0.5972



49.7689, 0.2655, 0.4694



13.9083, 0.3107, 0.3516



29.0923, 0.2988, 0.5957



1.7592, 0.2951, 0.5825



# Inverse Universe

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



19.0649, 0.3353, 0.1654



27.5073, 0.3374, 0.1632



15.8679, 0.4946, 0.2560



12.6189, 0.3147, 0.3074



11.1898, 0.3369, 0.1630

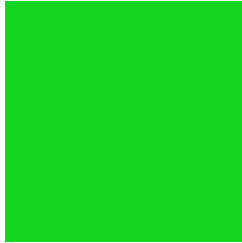


0.6790, 0.3339, 0.1613



# Previews

## White Background



This preview shows how the Yxy color 48.3461, 0.2987, 0.5871 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 48.3461, 0.2987, 0.5871 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

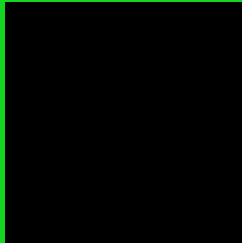
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.3461, 0.2987, 0.5871**

## Background



This preview shows how black text looks on a background with the Yxy color 48.3461, 0.2987, 0.5871.



This preview shows how white text looks on a background with the Yxy color 48.3461, 0.2987, 0.5871.

# 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

48.3461, 0.2987, 0.5871

### Protanopia

47.0506, 0.4375, 0.4838

### Deuteranopia

47.2060, 0.4561, 0.4473



## Tritanopia

47.9773, 0.2363, 0.3064

# Trichromacy



## Original Color

48.3461, 0.2987, 0.5871



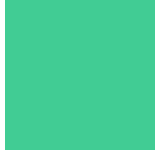
## Protanomaly

44.0614, 0.3657, 0.5378



## Deuteranomaly

43.3727, 0.3764, 0.5127



## Tritanomaly

46.4477, 0.2623, 0.4184

# Monochromacy



## Original Color

48.3461, 0.2987, 0.5871



## Achromatopsia

24.2281, 0.3127, 0.3290



## Achromatomaly

29.7599, 0.3029, 0.4509

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.3461, 0.2987, 0.5871 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(20, 214, 32)` looks like.

```
.text, #text, p{  
    color:rgb(20, 214, 32)  
}
```

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(20, 214, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 214, 32) }
```

## Border

The CSS property to change the border of an element to Yxy 48.3461, 0.2987, 0.5871 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(20, 214, 32) }
```

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

```
.border{ border-color:rgb(20, 214, 32) }
```

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

Here you see how a box with a 4 pixel rgb(20, 214, 32) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 214, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 214, 32);  
box-shadow:4px 4px 4px 4px rgb(20, 214,  
32) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.3461, 0.2987, 0.5871 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(20, 214, 32) }
```

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

```
.background{ background-color: rgb(20, 214,  
32) }
```

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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