

# Converting Colors

$Y_{xy}(13.6214, 0.2912, 0.4956)$

Have a look what the booklet for  
Yxy(13.6214, 0.2912, 0.4956)  
contains.

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**Color**

**Yxy(13.6838, 0.2919, 0.4965)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	287637
RGB	40, 118, 55
RGB Percent	16%, 46%, 22%
CMY	0.8429, 0.5373, 0.7843
CMYK	0.66, 0.00, 0.53, 0.54
HSL	132°, 49%, 31%
HSV	132°, 66%, 46%
XYZ	8.0449, 13.6838, 5.8318
YIQ	87.4960, -26.2650, -36.1290

# Conversions

## Conversions Part 2

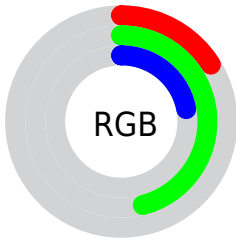
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	40, 105, 118
Decimal	2651703
CIE <sub>Lab</sub>	43.78, -38.12, 27.67
CIE <sub>LCh</sub>	44, 47.108, 144.025
Yxy	13.6838, 0.2919, 0.4965
Android (android.graphics.Color)	4280841783 (0xFF287637)
YUV	87.4960, -16.0205, -41.6540
Hunter-Lab	36.9916, -25.9153, 16.5469

# Details

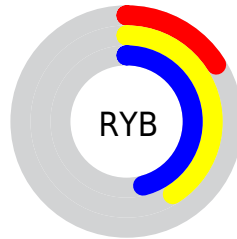
The Yxy color **13.6838, 0.2919, 0.4965** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **6.3536, 0.3497, 0.2080**, and the grayscale version is **9.6871, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.5380, 0.3008, 0.4504**, and **4.1540, 0.2932, 0.5754** is the 20% darker color. If you saturate the color by 10%, you get **13.3998, 0.2912, 0.5240**, and if you desaturate by 10%, it is **14.0589, 0.2936, 0.4676**.

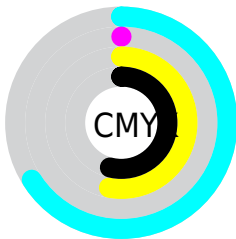
# Distribution



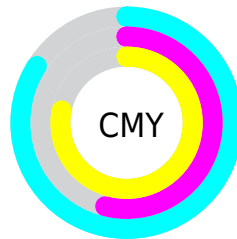
- Red (16%)
- Green (46%)
- Blue (22%)



- Red (16%)
- Yellow (41%)
- Blue (46%)



- Cyan (66%)
- Magenta (0%)
- Yellow (53%)
- Black (54%)




- Cyan (84%)
- Magenta (54%)
- Yellow (78%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 13.6838, 0.2919, 0.4965 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 13.6838, 0.2919, 0.4965 by changing the saturation by 10% instead.





 13.6838, 0.2919,  
0.4965


 13.6838, 0.2919,  
0.4965


215.2548, 0.3085,  
0.3896


 7.9011, 0.2830,  
0.5356


 32.5269, 0.3005,  
0.4498


 4.0317, 0.2664,  
0.5960

 46.3561, 0.3028,  
0.4349


 1.6913, 0.2348,  
0.7652

 63.6362, 0.3045,  
0.4232

 0.4180, 0.0000,  
1.0000

 84.7517, 0.3057,  
0.4138

 0.0000, 0.0000,  
0.0000

 110.0869, 0.3067,  
0.4061

 140.0262, 0.3074,

0.3997

174.9540, 0.3080,  
0.3943

■ 13.6838, 0.2919,  
0.4965

■ 13.6838, 0.2919,  
0.4965

■ 13.3998, 0.2912,  
0.5240

■ 14.0589, 0.2936,  
0.4676

■ 13.1973, 0.2917,  
0.5486

■ 14.5303, 0.2962,  
0.4387

■ 13.0625, 0.2930,  
0.5690

■ 15.1048, 0.2993,  
0.4110

■ 13.0165, 0.2933,  
0.5760

■ 15.7880, 0.3029,  
0.3852

■ 16.5853, 0.3067,  
0.3617

■ 17.5016, 0.3104,  
0.3406

■ 18.5415, 0.3142,  
0.3219

■ 19.7094, 0.3178,  
0.3055

■ 21.0094, 0.3212,  
0.2912

# Harmonies

## Analogous

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



13.6838, 0.3828, 0.5079



13.6838, 0.2919, 0.4965



13.6838, 0.2115, 0.4063

# Triad

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



13.6838, 0.2919, 0.4965



13.6838, 0.1710, 0.1905



13.6838, 0.4877, 0.3228

# Complementary

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



13.6838, 0.2919, 0.4965



6.3536, 0.3497, 0.2080

# 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.



13.6838, 0.4106, 0.2617



13.6838, 0.2919, 0.4965



13.6838, 0.2233, 0.1894

# Square

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



13.6838, 0.2919, 0.4965



13.6838, 0.1510, 0.2235



13.6838, 0.3085, 0.2146



13.6838, 0.5036, 0.3901



# Rectangle

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



13.6838, 0.2919, 0.4965



13.6838, 0.1751, 0.3310



13.6838, 0.3085, 0.2146



13.6838, 0.4677, 0.3015

# Sweetspot

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



13.6844, 0.2919, 0.4965



28.5148, 0.3050, 0.3718



16.0354, 0.3797, 0.4856



6.4859, 0.3042, 0.3770



60.3827, 0.3127, 0.3290



7.3239, 0.3127, 0.3290



# Same Dimension

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



13.6844, 0.2919, 0.4965



23.3704, 0.2913, 0.5366



14.2045, 0.2580, 0.3921



4.1086, 0.3093, 0.3466



14.0812, 0.2935, 0.5765



68.5217, 0.2955, 0.5837



# Inverse Universe

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



6.3536, 0.3497, 0.2080



9.4195, 0.3604, 0.1921



5.7519, 0.4473, 0.2803



3.7465, 0.3163, 0.3120



5.0665, 0.3741, 0.1834



24.5696, 0.3774, 0.1853



# Previews

## White Background



This preview shows how the Yxy color 13.6838, 0.2919, 0.4965 looks on a white 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



# Black Background



This preview shows how the Yxy color 13.6838, 0.2919, 0.4965 looks on a black 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

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

**Yxy 13.6838, 0.2919, 0.4965**

## Background



This preview shows how black text looks on a background with the Yxy color 13.6838, 0.2919, 0.4965.



This preview shows how white text looks on a background with the Yxy color 13.6838, 0.2919, 0.4965.

# 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

13.6838, 0.2919, 0.4965

### Protanopia

13.5082, 0.4009, 0.4379

### Deuteranopia

13.4216, 0.4108, 0.4042



## Tritanopia

13.6548, 0.2452, 0.3078

# Trichromacy



## Original Color

13.6838, 0.2919, 0.4965

## Protanomaly

12.9993, 0.3522, 0.4618

## Deuteranomaly

12.7883, 0.3580, 0.4388

## Tritanomaly

13.6092, 0.2626, 0.3745

# Monochromacy



## Original Color

13.6838, 0.2919, 0.4965

## Achromatopsia

9.7587, 0.3127, 0.3290

## Achromatomaly

10.7851, 0.3028, 0.3904

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 13.6838, 0.2919, 0.4965 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(40, 118, 55)` looks like.

```
.text, #text, p{  
    color:rgb(40, 118, 55)  
}
```

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(40, 118, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(40, 118, 55) }
```

## Border

The CSS property to change the border of an element to Yxy 13.6838, 0.2919, 0.4965 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(40, 118, 55) }
```

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

```
.border{ border-color:rgb(40, 118, 55) }
```

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

Here you see how a box with a 4 pixel rgb(40, 118, 55) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(40, 118, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(40, 118, 55);  
box-shadow:4px 4px 4px 4px rgb(40, 118,  
55) }
```



# Background

The CSS property to change the background color of an element to Yxy 13.6838, 0.2919, 0.4965 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(40, 118, 55) }
```

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

```
.background{ background-color: rgb(40, 118,  
55) }
```

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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