

# Converting Colors

$Y_{xy}(22.9207, 0.3142, 0.4608)$

Have a look what the booklet for  
Yxy(22.9207, 0.3142, 0.4608)  
contains.

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# Color

**Yxy(22.9047, 0.3139, 0.4609)**

# Conversions

## Conversions Part 1

Format	Color
Hex	589150
RGB	88, 145, 80
RGB Percent	35%, 57%, 31%
CMY	0.6548, 0.4314, 0.6862
CMYK	0.39, 0.00, 0.45, 0.43
HSL	113°, 29%, 44%
HSV	113°, 45%, 57%
XYZ	15.5994, 22.9047, 11.1914
YIQ	120.5470, -13.1070, -32.2990

# Conversions

## Conversions Part 2

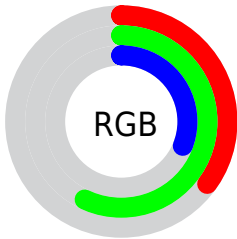
<b>Format</b>	<b>Color</b>
<b>RYB</b>	80, 145, 137
Decimal	5804368
CIELab	54.97, -32.17, 28.68
CIELCh	55, 43.100, 138.278
Yxy	22.9047, 0.3139, 0.4609
Android (android.graphics.Color)	4283994448 (0xFF589150)
YUV	120.5470, -19.9897, -28.5437
Hunter-Lab	47.8589, -25.5715, 19.6367

# Details

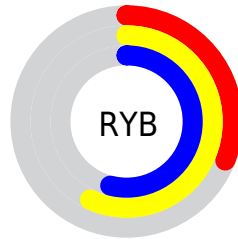
The Yxy color **22.9047, 0.3139, 0.4609** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **13.1028, 0.3062, 0.2193**, and the grayscale version is **19.0376, 0.3127, 0.3290**.

A 20% lighter version of the original color is **48.1213, 0.3161, 0.4293**, and **8.4903, 0.3069, 0.5206** is the 20% darker color. If you saturate the color by 10%, you get **22.1464, 0.3131, 0.4945**, and if you desaturate by 10%, it is **23.8194, 0.3142, 0.4275**.

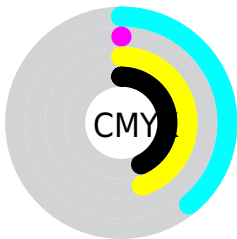
# Distribution



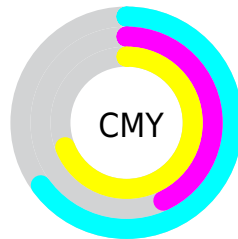
- Red (35%)
- Green (57%)
- Blue (31%)



- Red (31%)
- Yellow (57%)
- Blue (54%)



- Cyan (39%)
- Magenta (0%)
- Yellow (45%)
- Black (43%)




- Cyan (65%)
- Magenta (43%)
- Yellow (69%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 22.9047, 0.3139, 0.4609 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 22.9047, 0.3139, 0.4609 by changing the saturation by 10% instead.





 22.9047, 0.3139,  
0.4609


 22.9047, 0.3139,  
0.4609


267.2351, 0.3159,  
0.3833


 14.5232, 0.3117,  
0.4852


 48.2368, 0.3156,  
0.4293


 8.4854, 0.3072,  
0.5198


 65.9561, 0.3159,  
0.4185

 4.4071, 0.2974,  
0.5720

 87.5569, 0.3161,  
0.4098

 1.9038, 0.2934,  
0.7066

 113.4234, 0.3161,  
0.4026

 0.5507, 0.0000,  
1.0000

 143.9401, 0.3161,  
0.3966

 0.0000, 0.0000,  
0.0000

179.4913, 0.3161,

0.3915

220.4616, 0.3160,  
0.3871

■ 22.9047, 0.3139,  
0.4609

■ 22.9047, 0.3139,  
0.4609

■ 22.1464, 0.3131,  
0.4945

■ 23.8194, 0.3142,  
0.4275

■ 21.5331, 0.3117,  
0.5265

■ 24.8957, 0.3141,  
0.3959

■ 21.0561, 0.3097,  
0.5545


■ 26.1417, 0.3137,  
0.3667

■ 20.7049, 0.3073,  
0.5764

■ 27.5646, 0.3131,  
0.3405

■ 20.4668, 0.3048,  
0.5910

■ 29.1709, 0.3123,  
0.3173

 20.3779, 0.3038,  
0.5970

 30.9667, 0.3114,  
0.2970

 32.9581, 0.3105,  
0.2792

 35.1506, 0.3096,  
0.2638

 37.5497, 0.3087,  
0.2504

# Harmonies

## Analogous

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



22.9047, 0.3859, 0.4649



22.9047, 0.3139, 0.4609



22.9047, 0.2455, 0.4032

# Triad

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



22.9047, 0.3139, 0.4609



22.9047, 0.1928, 0.2213



22.9047, 0.4395, 0.3173

# Complementary

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



22.9047, 0.3139, 0.4609



13.1028, 0.3062, 0.2193

# 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.



22.9047, 0.3745, 0.2674



22.9047, 0.3139, 0.4609



22.9047, 0.2317, 0.2142

# Square

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



22.9047, 0.3139, 0.4609



22.9047, 0.1814, 0.2564



22.9047, 0.2962, 0.2309



22.9047, 0.4641, 0.3732



# Rectangle

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



22.9047, 0.3139, 0.4609



22.9047, 0.2112, 0.3486



22.9047, 0.2962, 0.2309



22.9047, 0.4213, 0.2996

# Sweetspot

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



22.9057, 0.3139, 0.4609



47.1887, 0.3136, 0.3625



24.3022, 0.3828, 0.4233



10.3903, 0.3137, 0.3680



72.9347, 0.3127, 0.3290



11.2805, 0.3127, 0.3290



# Same Dimension

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



22.9057, 0.3139, 0.4609



39.6232, 0.3130, 0.4956



22.9533, 0.2868, 0.4134



6.0592, 0.3134, 0.3516



17.4857, 0.3041, 0.5968



0.1721, 0.3212, 0.5832



# Inverse Universe

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



13.1028, 0.3062, 0.2193



19.6941, 0.3038, 0.1963



13.1444, 0.3539, 0.2583



5.4778, 0.3119, 0.3072



5.6413, 0.2908, 0.1376



0.0601, 0.3066, 0.1463



# Previews

## White Background



This preview shows how the Yxy color 22.9047, 0.3139, 0.4609 looks on a white 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



# Black Background



This preview shows how the Yxy color 22.9047, 0.3139, 0.4609 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

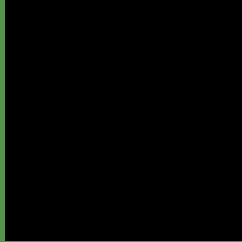
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 22.9047, 0.3139, 0.4609**

## **Background**



This preview shows how black text looks on a background with the Yxy color 22.9047, 0.3139, 0.4609.



This preview shows how white text looks on a background with the Yxy color 22.9047, 0.3139, 0.4609.

# 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

22.9047, 0.3139, 0.4609

### Protanopia

22.6699, 0.3905, 0.4238

### Deuteranopia

22.5922, 0.4019, 0.3936



## Tritanopia

22.7961, 0.2662, 0.3087

# Trichromacy



## Original Color

22.9047, 0.3139, 0.4609

## Protanomaly

22.4292, 0.3600, 0.4375

## Deuteranomaly

22.1136, 0.3675, 0.4170

## Tritanomaly

22.6730, 0.2839, 0.3620

# Monochromacy



## Original Color

22.9047, 0.3139, 0.4609

## Achromatopsia

19.1202, 0.3127, 0.3290

## Achromatomaly

20.2571, 0.3139, 0.3765

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 22.9047, 0.3139, 0.4609 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(88, 145, 80)` looks like.

```
.text, #text, p{  
    color:rgb(88, 145, 80)  
}
```

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(88, 145, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(88, 145, 80) }
```

## Border

The CSS property to change the border of an element to Yxy 22.9047, 0.3139, 0.4609 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(88, 145, 80) }
```

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

```
.border{ border-color:rgb(88, 145, 80) }
```

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

Here you see how a box with a 4 pixel rgb(88, 145, 80) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(88, 145, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(88, 145, 80);  
box-shadow:4px 4px 4px 4px rgb(88, 145,  
80) }
```



# Background

The CSS property to change the background color of an element to Yxy 22.9047, 0.3139, 0.4609 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(88, 145, 80) }
```

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

```
.background{ background-color: rgb(88, 145,  
80) }
```

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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