

# Converting Colors

$Y_{xy}(22.0201, 0.4210, 0.4628)$

Have a look what the booklet for  
Yxy(22.0201, 0.4210, 0.4628)  
contains.

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**Color**

**Yxy(21.9021, 0.4212, 0.4617)**

# Conversions

## Conversions Part 1

Format	Color
Hex	91812C
RGB	145, 129, 44
RGB Percent	57%, 51%, 17%
CMY	0.4314, 0.4941, 0.8275
CMYK	0.00, 0.11, 0.70, 0.43
HSL	51°, 53%, 37%
HSV	51°, 70%, 57%
XYZ	19.9809, 21.9021, 5.5550
YIQ	124.0940, 36.8210, -23.0430

# Conversions

## Conversions Part 2

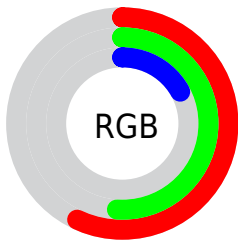
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	63, 145, 44
Decimal	9535788
CIE Lab	53.92, -4.09, 46.38
CIE LCh	54, 46.560, 95.042
Yxy	21.9021, 0.4212, 0.4617
Android (android.graphics.Color)	4287725868 (0xFF91812C)
YUV	124.0940, -39.4863, 18.3346
Hunter-Lab	46.7997, -5.6899, 25.7222

# Details

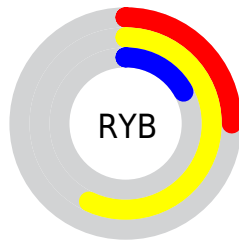
The Yxy color **21.9021, 0.4212, 0.4617** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **5.8074, 0.1890, 0.1414**, and the grayscale version is **20.3136, 0.3127, 0.3290**.

A 20% lighter version of the original color is **46.6996, 0.4002, 0.4358**, and **7.9615, 0.4406, 0.4884** is the 20% darker color. If you saturate the color by 10%, you get **21.2147, 0.4330, 0.4721**, and if you desaturate by 10%, it is **22.6433, 0.4073, 0.4475**.

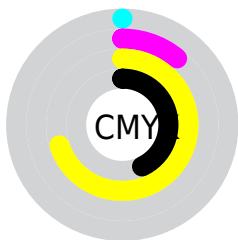
# Distribution



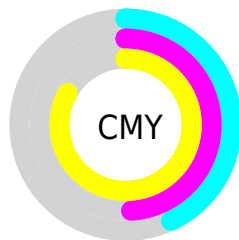
- Red (57%)
- Green (51%)
- Blue (17%)



- Red (25%)
- Yellow (57%)
- Blue (17%)



- Cyan (0%)
- Magenta (11%)
- Yellow (70%)
- Black (43%)




- Cyan (43%)
- Magenta (49%)
- Yellow (83%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.9021, 0.4212, 0.4617 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 21.9021, 0.4212, 0.4617 by changing the saturation by 10% instead.





 21.9021, 0.4212,  
0.4617


 21.9021, 0.4212,  
0.4617


262.0346, 0.3647,  
0.3906


 13.7850, 0.4339,  
0.4789


 46.5841, 0.4011,  
0.4356


 7.9713, 0.4479,  
0.4991


 63.9178, 0.3933,  
0.4258

 4.0766, 0.4693,  
0.5307

 85.0925, 0.3866,  
0.4175

 1.7165, 0.4632,  
0.5368

 110.4926, 0.3809,  
0.4105

 0.4343, 0.4188,  
0.5812

 140.5025, 0.3760,  
0.4044

 0.0000, 0.0000,  
0.0000

 175.5065, 0.3717,

0.3992

215.8891, 0.3680,  
0.3946

■ 21.9021, 0.4212,  
0.4617

■ 21.9021, 0.4212,  
0.4617

■ 21.2147, 0.4330,  
0.4721

■ 22.6433, 0.4073,  
0.4475

■ 20.5737, 0.4422,  
0.4783

■ 23.4387, 0.3918,  
0.4302

■ 19.9693, 0.4494,  
0.4811

■ 24.2928, 0.3755,  
0.4108

■ 19.9496, 0.4496,  
0.4812

■ 25.2084, 0.3589,  
0.3902

■ 26.1882, 0.3426,  
0.3692

■ 27.2348, 0.3270,  
0.3484

■ 28.3505, 0.3122,  
0.3284

■ 29.5375, 0.2986,  
0.3093

■ 30.7980, 0.2860,  
0.2915

# Harmonies

## Analogous

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



21.9021, 0.4693, 0.4086



21.9021, 0.4212, 0.4617



21.9021, 0.3479, 0.4837

# Triad

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



21.9021, 0.4212, 0.4617



21.9021, 0.1750, 0.2763



21.9021, 0.3418, 0.2427

# Complementary

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



21.9021, 0.4212, 0.4617



5.8074, 0.1890, 0.1414

# 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.



21.9021, 0.2604, 0.2124



21.9021, 0.4212, 0.4617



21.9021, 0.1742, 0.2244

# Square

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



21.9021, 0.4212, 0.4617



21.9021, 0.2072, 0.3598



21.9021, 0.2028, 0.2049



21.9021, 0.4243, 0.2905



# Rectangle

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



21.9021, 0.4212, 0.4617



21.9021, 0.2949, 0.4657



21.9021, 0.2028, 0.2049



21.9021, 0.3130, 0.2303

# Sweetspot

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



21.9031, 0.4212, 0.4617



46.5843, 0.3455, 0.3729



8.1540, 0.5001, 0.3040



10.2669, 0.3494, 0.3780



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.



21.9031, 0.4212, 0.4617



37.2878, 0.4389, 0.4764



23.8312, 0.3648, 0.5062



6.1421, 0.3262, 0.3474



17.1439, 0.4494, 0.4814



0.1891, 0.4330, 0.4944



# Inverse Universe

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



5.8074, 0.1890, 0.1414



6.6990, 0.1666, 0.1008



5.4490, 0.2176, 0.1300



5.3843, 0.2990, 0.3099



2.3043, 0.1546, 0.0765



0.0430, 0.1703, 0.1332



# Previews

## White Background



This preview shows how the Yxy color 21.9021, 0.4212, 0.4617 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

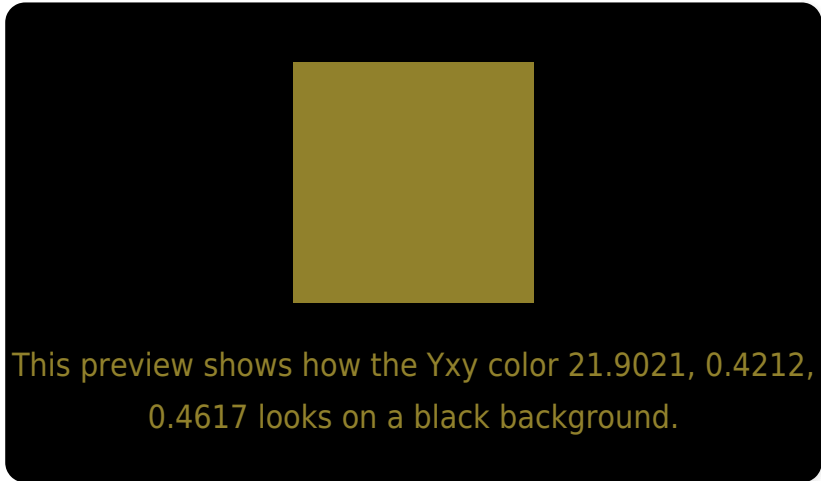
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

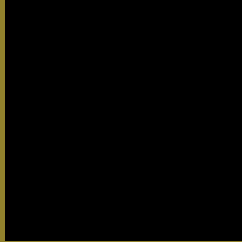
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 21.9021, 0.4212, 0.4617**

## **Background**



This preview shows how black text looks on a background with the Yxy color 21.9021, 0.4212, 0.4617.



This preview shows how white text looks on a background with the Yxy color 21.9021, 0.4212, 0.4617.

# 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

21.9021, 0.4212, 0.4617

### Protanopia

21.8117, 0.4199, 0.4624

### Deuteranopia

21.9402, 0.4467, 0.4400



## Tritanopia

21.9619, 0.3408, 0.3143

# Trichromacy



## Original Color

21.9021, 0.4212, 0.4617

## Protanomaly

21.8117, 0.4199, 0.4624

## Deuteranomaly

21.8253, 0.4377, 0.4480

## Tritanomaly

21.7057, 0.3742, 0.3717

# Monochromacy



## Original Color

21.9021, 0.4212, 0.4617

## Achromatopsia

20.1556, 0.3127, 0.3290

## Achromatomaly

20.6535, 0.3559, 0.3860

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.9021, 0.4212, 0.4617 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(145, 129, 44)` looks like.

```
.text, #text, p{  
    color:rgb(145, 129, 44)  
}
```

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(145, 129, 44) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(145, 129, 44) }
```

## Border

The CSS property to change the border of an element to Yxy 21.9021, 0.4212, 0.4617 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(145, 129, 44) }
```

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

```
.border{ border-color:rgb(145, 129, 44) }
```

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

Here you see how a box with a 4 pixel `rgb(145, 129, 44)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(145, 129, 44); -webkit-box-  
shadow:4px 4px 4px 4px rgb(145, 129, 44);  
box-shadow:4px 4px 4px 4px rgb(145, 129,  
44) }
```



# Background

The CSS property to change the background color of an element to Yxy 21.9021, 0.4212, 0.4617 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(145, 129, 44) }
```

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

```
.background{ background-color: rgb(145,  
129, 44) }
```

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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