

# Converting Colors

$Y_{xy}(21.6219, 0.4499, 0.4522)$

Have a look what the booklet for  
Yxy(21.6219, 0.4499, 0.4522)  
contains.

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**Color**

**Yxy(21.5624, 0.4502, 0.4515)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9E7B24
RGB	158, 123, 36
RGB Percent	62%, 48%, 14%
CMY	0.3804, 0.5176, 0.8590
CMYK	0.00, 0.22, 0.77, 0.38
HSL	43°, 63%, 38%
HSV	43°, 77%, 62%
XYZ	21.5003, 21.5624, 4.6945
YIQ	123.5470, 48.7870, -19.6370

# Conversions

## Conversions Part 2

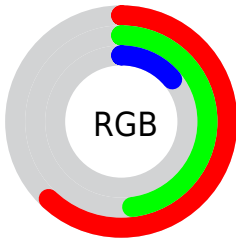
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	85, 158, 36
Decimal	10386212
CIE Lab	53.56, 4.83, 49.80
CIE LCh	54, 50.033, 84.464
Yxy	21.5624, 0.4502, 0.4515
Android (android.graphics.Color)	4288576292 (0xFF9E7B24)
YUV	123.5470, -43.1607, 30.2153
Hunter-Lab	46.4353, 1.3866, 26.5106

# Details

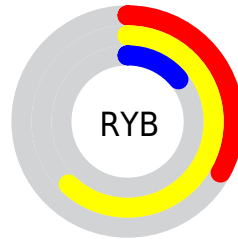
The Yxy color **21.5624, 0.4502, 0.4515** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **7.3422, 0.1838, 0.1475**, and the grayscale version is **20.1305, 0.3127, 0.3290**.

A 20% lighter version of the original color is **45.9470, 0.4248, 0.4302**, and **7.8569, 0.4718, 0.4636** is the 20% darker color. If you saturate the color by 10%, you get **20.3894, 0.4649, 0.4565**, and if you desaturate by 10%, it is **22.8321, 0.4331, 0.4420**.

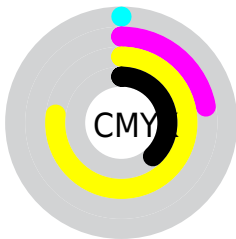
# Distribution



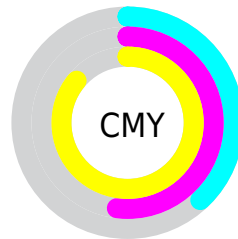
- Red (62%)
- Green (48%)
- Blue (14%)



- Red (33%)
- Yellow (62%)
- Blue (14%)



- Cyan (0%)
- Magenta (22%)
- Yellow (77%)
- Black (38%)




- Cyan (38%)
- Magenta (52%)
- Yellow (86%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.5624, 0.4502, 0.4515 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 21.5624, 0.4502, 0.4515 by changing the saturation by 10% instead.





 21.5624, 0.4502,  
0.4515


 21.5624, 0.4502,  
0.4515

260.2524, 0.3779,  
0.3893


 13.5357, 0.4667,  
0.4643


 46.0217, 0.4243,  
0.4301

 7.7985, 0.4866,  
0.4788


 63.2230, 0.4143,  
0.4215


 3.9663, 0.5082,  
0.4918

 84.2514, 0.4058,  
0.4141

 1.6547, 0.5152,  
0.4848

 109.4912, 0.3986,  
0.4078

 0.3941, 0.5555,  
0.4445

 139.3268, 0.3923,  
0.4022

 0.0000, 0.0000,  
0.0000

 174.1426, 0.3868,

0.3974

214.3230, 0.3821,  
0.3931

■ 21.5624, 0.4502,  
0.4515

■ 21.5624, 0.4502,  
0.4515

■ 20.3894, 0.4649,  
0.4565

■ 22.8321, 0.4331,  
0.4420

■ 19.3012, 0.4768,  
0.4571

■ 24.2010, 0.4145,  
0.4289

■ 19.0115, 0.4801,  
0.4570

■ 25.6751, 0.3952,  
0.4131

■ 27.2590, 0.3759,  
0.3956

■ 28.9566, 0.3573,  
0.3774

■ 30.7719, 0.3398,  
0.3592

■ 32.7083, 0.3236,  
0.3414

■ 34.7694, 0.3088,  
0.3244

■ 36.9582, 0.2953,  
0.3085

# Harmonies

## Analogous

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



21.5624, 0.4885, 0.3893



21.5624, 0.4502, 0.4515



21.5624, 0.3783, 0.4934

# Triad

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



21.5624, 0.4502, 0.4515



21.5624, 0.1738, 0.2998



21.5624, 0.3108, 0.2232

# Complementary

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



21.5624, 0.4502, 0.4515



7.3422, 0.1838, 0.1475

# 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.



21.5624, 0.2313, 0.1992



21.5624, 0.4502, 0.4515



21.5624, 0.1621, 0.2317

# Square

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



21.5624, 0.4502, 0.4515



21.5624, 0.2193, 0.3978



21.5624, 0.1814, 0.2003



21.5624, 0.4037, 0.2679



# Rectangle

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



21.5624, 0.4502, 0.4515



21.5624, 0.3222, 0.4922



21.5624, 0.1814, 0.2003



21.5624, 0.2815, 0.2126

# Sweetspot

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



21.5635, 0.4502, 0.4515



53.8148, 0.3506, 0.3705



9.0031, 0.4967, 0.2809



11.8824, 0.3567, 0.3768



80.7346, 0.3127, 0.3290



13.9985, 0.3127, 0.3290



# Same Dimension

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



21.5635, 0.4502, 0.4515



35.5223, 0.4740, 0.4572



29.6124, 0.3838, 0.5094



7.3988, 0.3267, 0.3449



15.2976, 0.4794, 0.4575



0.3415, 0.4509, 0.4802



# Inverse Universe

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



7.3422, 0.1838, 0.1475



8.9014, 0.1649, 0.1083



4.6999, 0.1881, 0.1018



6.7296, 0.2988, 0.3126



3.5587, 0.1611, 0.1000

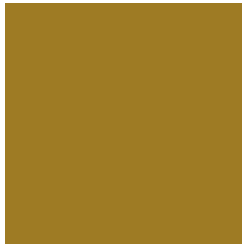


0.1306, 0.1818, 0.1746



# Previews

## White Background



This preview shows how the Yxy color 21.5624, 0.4502, 0.4515 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

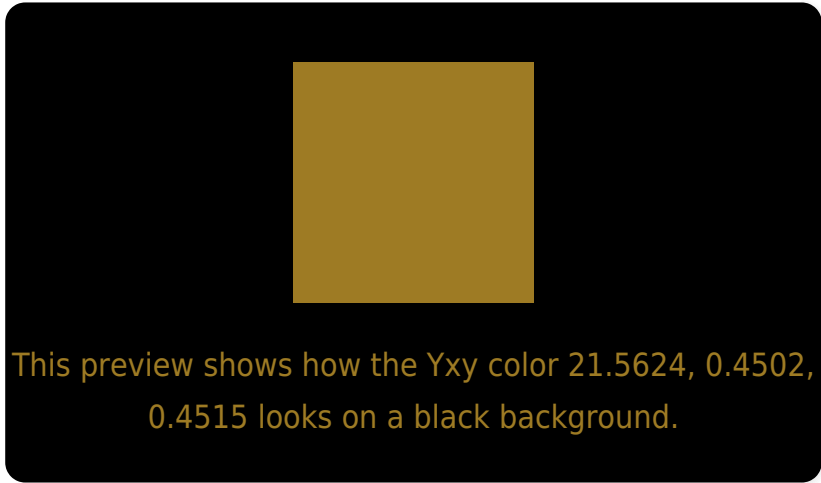
Any Text WCAG AA ✗ Fail

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 21.5624, 0.4502, 0.4515**

## **Background**



This preview shows how black text looks on a background with the Yxy color 21.5624, 0.4502, 0.4515.



This preview shows how white text looks on a background with the Yxy color 21.5624, 0.4502, 0.4515.

# 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

21.5624, 0.4502, 0.4515

### Protanopia

21.7634, 0.4246, 0.4694

### Deuteranopia

21.6235, 0.4551, 0.4478



## Tritanopia

21.6092, 0.3655, 0.3150

# Trichromacy



## Original Color

21.5624, 0.4502, 0.4515

## Protanomaly

21.7019, 0.4333, 0.4628

## Deuteranomaly

21.5200, 0.4539, 0.4486

## Tritanomaly

21.4110, 0.4036, 0.3707

# Monochromacy



## Original Color

21.5624, 0.4502, 0.4515

## Achromatopsia

20.1556, 0.3127, 0.3290

## Achromatomaly

20.4223, 0.3656, 0.3870

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  21.5624, 0.4502, 0.4515 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(158, 123, 36)` looks like.

```
.text, #text, p{  
    color:rgb(158, 123, 36)  
}
```

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(158, 123, 36) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(158, 123, 36) }
```

## Border

The CSS property to change the border of an element to Yxy 21.5624, 0.4502, 0.4515 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(158, 123, 36) }
```

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

```
.border{ border-color:rgb(158, 123, 36) }
```

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

Here you see how a box with a 4 pixel `rgb(158, 123, 36)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(158, 123, 36); -webkit-box-  
shadow:4px 4px 4px 4px rgb(158, 123, 36);  
box-shadow:4px 4px 4px 4px rgb(158, 123,  
36) }
```



# Background

The CSS property to change the background color of an element to Yxy 21.5624, 0.4502, 0.4515 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(158, 123, 36) }
```

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

```
.background{ background-color: rgb(158,  
123, 36) }
```

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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