

# Converting Colors

$Y_{xy}(19.8832, 0.4713, 0.4201)$

Have a look what the booklet for  
Yxy(19.8832, 0.4713, 0.4201)  
contains.

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# Color

**Yxy(19.8832, 0.4713, 0.4201)**

# Conversions

Conversions Part 1	
Format	Color
Hex	A86F2D
RGB	168, 111, 45
RGB Percent	66%, 44%, 18%
CMY	0.3412, 0.5647, 0.8237
CMYK	0.00, 0.34, 0.73, 0.34
HSL	32°, 58%, 42%
HSV	32°, 73%, 66%
XYZ	22.3065, 19.8832, 5.1400
YIQ	120.5190, 55.1580, -8.4420

# Conversions

## Conversions Part 2

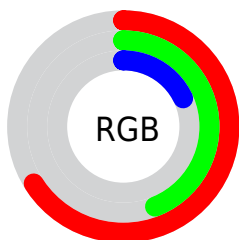
Format	Color
<a href="#">RYB</a>	<a href="#">151, 168, 45</a>
Decimal	<a href="#">11038509</a>
CIELab	<a href="#">51.70, 16.58, 44.45</a>
CIELCh	<a href="#">52, 47.443, 69.542</a>
Yxy	<a href="#">19.8832, 0.4713, 0.4201</a>
Android (android.graphics.Color)	<a href="#">4289228589</a> (0xFFA86F2D)
YUV	<a href="#">120.5190, -37.2309, 41.6408</a>
Hunter-Lab	<a href="#">44.5906, 11.2613, 24.3790</a>

# Details

The Yxy color **19.8832, 0.4713, 0.4201** is a dark color, and the websafe version is hex **996633**. A complement of this color would be **12.8778, 0.1995, 0.1993**, and the grayscale version is **19.0654, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.3334, 0.4389, 0.4064**, and **6.9345, 0.5154, 0.4289** is the 20% darker color. If you saturate the color by 10%, you get **18.1546, 0.4952, 0.4234**, and if you desaturate by 10%, it is **21.8133, 0.4459, 0.4125**.

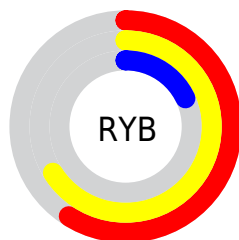
# Distribution



Red (66%)

Green (44%)

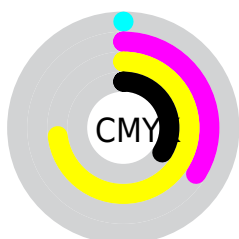
Blue (18%)



Red (59%)

Yellow (66%)

Blue (18%)

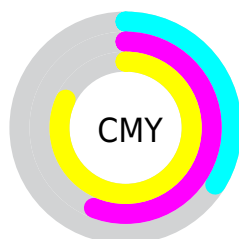


Cyan (0%)

Magenta (34%)

Yellow (73%)

Black (34%)



Cyan (34%)

Magenta (56%)


Yellow (82%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.8832, 0.4713, 0.4201 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 19.8832, 0.4713, 0.4201 by changing the saturation by 10% instead.





 19.8832, 0.4713,  
0.4201


 19.8832, 0.4713,  
0.4201


251.2821, 0.3842,  
0.3761


 12.3102, 0.4934,  
0.4277


 43.2213, 0.4387,  
0.4058

 6.9553, 0.5210,  
0.4344


 59.7551, 0.4266,  
0.3998


 3.4342, 0.5599,  
0.4401


 80.0447, 0.4165,  
0.3945

 1.3624, 0.5840,  
0.4160

 104.4743, 0.4080,  
0.3898

 0.1887, 0.7558,  
0.2442


 133.4285, 0.4008,  
0.3857

 0.0000, 0.0000,  
0.0000


 167.2916, 0.3945,


0.3821


206.4480, 0.3890,  
0.3789


 19.8832, 0.4713,  
0.4201


 19.8832, 0.4713,  
0.4201


 18.1546, 0.4952,  
0.4234


 21.8133, 0.4459,  
0.4125

 16.6141, 0.5161,  
0.4215


 23.9510, 0.4205,  
0.4016

 15.6681, 0.5290,  
0.4182


 26.3055, 0.3960,  
0.3886


 28.8844, 0.3733,  
0.3747

 31.6950, 0.3526,  
0.3604

 34.7439, 0.3340,  
0.3465

 38.0377, 0.3176,  
0.3332

 41.5825, 0.3032,  
0.3206

 45.3841, 0.2905,  
0.3090

# Harmonies

## Analogous

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



19.8832, 0.4841, 0.3574



19.8832, 0.4713, 0.4201



19.8832, 0.4150, 0.4739

# Triad

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



19.8832, 0.4713, 0.4201



19.8832, 0.1949, 0.3464



19.8832, 0.2692, 0.2108

# Complementary

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



19.8832, 0.4713, 0.4201



12.8778, 0.1995, 0.1993

# 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.



19.8832, 0.2050, 0.1991



19.8832, 0.4713, 0.4201



19.8832, 0.1670, 0.2626

# Square

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



19.8832, 0.4713, 0.4201



19.8832, 0.2554, 0.4412



19.8832, 0.1710, 0.2144



19.8832, 0.3568, 0.2453



# Rectangle

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



19.8832, 0.4713, 0.4201



19.8832, 0.3637, 0.4917



19.8832, 0.1710, 0.2144



19.8832, 0.2445, 0.2042

# Sweetspot

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



19.8842, 0.4713, 0.4201



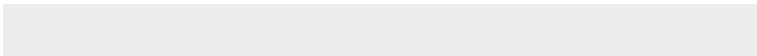
57.9594, 0.3509, 0.3593



11.1654, 0.4386, 0.2511



12.3358, 0.3560, 0.3629



84.8088, 0.3127, 0.3290



15.4872, 0.3127, 0.3290



# Same Dimension

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



19.8842, 0.4713, 0.4201



31.1228, 0.5089, 0.4228



36.0778, 0.4038, 0.4894



8.1842, 0.3273, 0.3411



11.9349, 0.5276, 0.4193



0.3912, 0.4832, 0.4545



# Inverse Universe

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



12.8778, 0.1995, 0.1993



17.7782, 0.1822, 0.1663



5.3550, 0.1776, 0.1025



7.8518, 0.2987, 0.3166



6.3312, 0.1747, 0.1487



0.2571, 0.1925, 0.2129



# Previews

## White Background



This preview shows how the Yxy color 19.8832, 0.4713, 0.4201 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

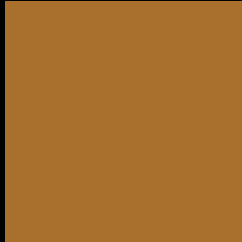
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 19.8832, 0.4713, 0.4201 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 19.8832, 0.4713, 0.4201**

## **Background**



This preview shows how black text looks on a background with the Yxy color 19.8832, 0.4713, 0.4201.



This preview shows how white text looks on a background with the Yxy color 19.8832, 0.4713, 0.4201.

# 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

19.8832, 0.4713, 0.4201

### Protanopia

20.0403, 0.4137, 0.4545

### Deuteranopia

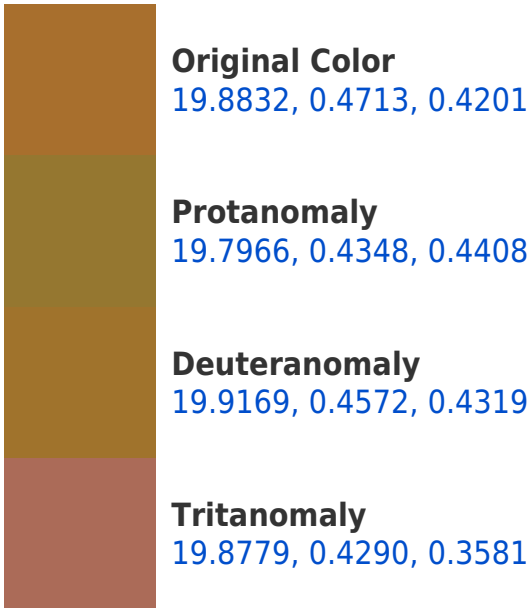
19.8656, 0.4491, 0.4392



## Tritanopia

19.8411, 0.3977, 0.3171

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.8832, 0.4713, 0.4201 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(168, 111, 45)` looks like.

```
.text, #text, p{  
    color:rgb(168, 111, 45)  
}
```

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(168, 111, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 111, 45) }
```

## Border

The CSS property to change the border of an element to Yxy 19.8832, 0.4713, 0.4201 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(168, 111, 45) }
```

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

```
.border{ border-color:rgb(168, 111, 45) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 111, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 111, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 111, 45);  
box-shadow:4px 4px 4px 4px rgb(168, 111,  
45) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.8832, 0.4713, 0.4201 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 111, 45) }
```

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

```
.background{ background-color: rgb(168,  
111, 45) }
```

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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