

# Converting Colors

$Y_{xy}(40.0412, 0.4786, 0.4510)$

Have a look what the booklet for  
Yxy(40.0412, 0.4786, 0.4510)  
contains.

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# Color

**Yxy(40.0412, 0.4786, 0.4510)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DE9E16
RGB	222, 158, 22
RGB Percent	87%, 62%, 9%
CMY	0.1295, 0.3803, 0.9135
CMYK	0.00, 0.29, 0.90, 0.13
HSL	41°, 82%, 48%
HSV	41°, 90%, 87%
XYZ	42.4916, 40.0412, 6.2503
YIQ	161.6320, 81.8000, -28.7280

# Conversions

## Conversions Part 2

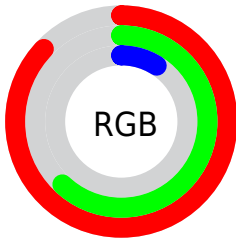
Format	Color
<a href="#">RYB</a>	<a href="#">116, 222, 22</a>
Decimal	<a href="#">14589462</a>
CIELab	<a href="#">69.50, 13.79, 70.26</a>
CIElCh	<a href="#">69, 71.601, 78.897</a>
Yxy	<a href="#">40.0412, 0.4786, 0.4510</a>
Android (android.graphics.Color)	<a href="#">4292779542</a> (0xFFDE9E16)
YUV	<a href="#">161.6320, -68.8386, 52.9427</a>
Hunter-Lab	<a href="#">63.2781, 9.1271, 38.4383</a>

# Details

The Yxy color **40.0412, 0.4786, 0.4510** is a dark color, and the websafe version is hex **CC9900**. The color can be described as dark washed orange. A complement of this color would be **12.1018, 0.1693, 0.1216**, and the grayscale version is **36.2530, 0.3127, 0.3290**.

A 20% lighter version of the original color is **69.0028, 0.4318, 0.4485**, and **18.0925, 0.4929, 0.4469** is the 20% darker color. If you saturate the color by 10%, you get **37.6468, 0.4907, 0.4486**, and if you desaturate by 10%, it is **42.6624, 0.4635, 0.4489**.

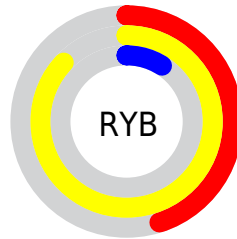
# Distribution



Red (87%)

Green (62%)

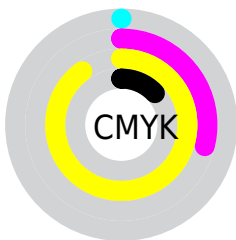
Blue (9%)



Red (45%)

Yellow (87%)

Blue (9%)

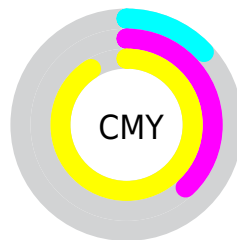


Cyan (0%)

Magenta (29%)

Yellow (90%)

Black (13%)



Cyan (13%)

Magenta (38%)


Yellow (91%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.0412, 0.4786, 0.4510 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 40.0412, 0.4786, 0.4510 by changing the saturation by 10% instead.





 40.0412, 0.4786,  
0.4510


 40.0412, 0.4786,  
0.4510


346.2972, 0.4020,  
0.4006

 27.5707, 0.4932,  
0.4582


 75.2262, 0.4537,  
0.4364


 18.0023, 0.5088,  
0.4640


 98.7096, 0.4434,  
0.4298


 10.9516, 0.5293,  
0.4707

 126.6326, 0.4343,  
0.4237

 6.0343, 0.5382,  
0.4618

 159.3797, 0.4262,  
0.4181

 2.8660, 0.5518,  
0.4482

 197.3353, 0.4191,  
0.4131

 1.0622, 0.5754,  
0.4246

 240.8839, 0.4127,

 0.0000, 1.0000,

0.4085

0.0000

290.4097, 0.4071,  
0.4044

■ 0.0000, 0.0000,  
0.0000

■ 40.0412, 0.4786,  
0.4510

■ 40.0412, 0.4786,  
0.4510

■ 37.6468, 0.4907,  
0.4486

■ 42.6624, 0.4635,  
0.4489

■ 45.5133, 0.4457,  
0.4418

■ 48.6104, 0.4259,  
0.4305

■ 51.9666, 0.4052,  
0.4159

■ 55.5930, 0.3845,  
0.3992

■ 59.5000, 0.3645,  
0.3815

■ 63.6972, 0.3458,  
0.3636

■ 68.1936, 0.3285,  
0.3460

■ 72.9975, 0.3128,  
0.3291

# Harmonies

## Analogous

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



40.0412, 0.5162, 0.3787



40.0412, 0.4786, 0.4510



40.0412, 0.4003, 0.5118

# Triad

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



40.0412, 0.4786, 0.4510



40.0412, 0.1613, 0.3121



40.0412, 0.2903, 0.2027

# Complementary

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



40.0412, 0.4786, 0.4510



12.1018, 0.1693, 0.1216

# 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.



40.0412, 0.2065, 0.1809



40.0412, 0.4786, 0.4510



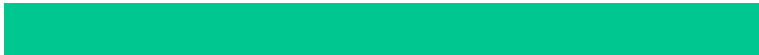
40.0412, 0.1432, 0.2270

# Square

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



40.0412, 0.4786, 0.4510



40.0412, 0.2177, 0.4320



40.0412, 0.1584, 0.1868



40.0412, 0.3983, 0.2483



# Rectangle

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



40.0412, 0.4786, 0.4510



40.0412, 0.3376, 0.5248



40.0412, 0.1584, 0.1868



40.0412, 0.2586, 0.1926

# Sweetspot

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



40.0432, 0.4786, 0.4510



83.0738, 0.3591, 0.3764



16.8181, 0.5371, 0.2805



17.3694, 0.3657, 0.3826



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

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



40.0432, 0.4786, 0.4510



51.3072, 0.4913, 0.4481



63.0647, 0.3908, 0.5226



15.2514, 0.3275, 0.3449



22.5750, 0.4894, 0.4496



1.7243, 0.4759, 0.4603



# Inverse Universe

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



12.1018, 0.1693, 0.1216



13.1919, 0.1615, 0.1013



6.6713, 0.1650, 0.0731



13.9556, 0.2981, 0.3126



5.9894, 0.1626, 0.1051



0.5731, 0.1711, 0.1361



# Previews

## White Background



This preview shows how the Yxy color 40.0412, 0.4786, 0.4510 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 40.0412, 0.4786, 0.4510 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 ✓ Pass

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

**Yxy 40.0412, 0.4786, 0.4510**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.0412, 0.4786, 0.4510.



This preview shows how white text looks on a background with the Yxy color 40.0412, 0.4786, 0.4510.

# 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

40.0412, 0.4786, 0.4510

### Protanopia

40.4069, 0.4357, 0.4825

### Deuteranopia

39.9838, 0.4697, 0.4593



## Tritanopia

39.9941, 0.3870, 0.3164

# Trichromacy



**Original Color**

40.0412, 0.4786, 0.4510

**Protanomaly**

40.0391, 0.4517, 0.4705

**Deuteranomaly**

40.0975, 0.4733, 0.4561

**Tritanomaly**

39.4061, 0.4333, 0.3779

# Monochromacy



**Original Color**

40.0412, 0.4786, 0.4510

**Achromatopsia**

36.1307, 0.3127, 0.3290

**Achromatomaly**

36.8278, 0.3825, 0.3982

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.0412, 0.4786, 0.4510 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(222, 158, 22)` looks like.

```
.text, #text, p{  
    color:rgb(222, 158, 22)  
}
```

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(222, 158, 22) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 158, 22) }
```

## Border

The CSS property to change the border of an element to Yxy 40.0412, 0.4786, 0.4510 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(222, 158, 22) }
```

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

```
.border{ border-color:rgb(222, 158, 22) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 158, 22)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 158, 22); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 158, 22);  
box-shadow:4px 4px 4px 4px rgb(222, 158,  
22) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.0412, 0.4786, 0.4510 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 158, 22) }
```

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

```
.background{ background-color: rgb(222,  
158, 22) }
```

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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