

# Converting Colors

$Y_{xy}(37.6551, 0.4822, 0.4487)$

Have a look what the booklet for  
Yxy(37.6551, 0.4822, 0.4487)  
contains.

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# Color

**Yxy(37.7384, 0.4814, 0.4493)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DA9914
RGB	218, 153, 20
RGB Percent	85%, 60%, 8%
CMY	0.1451, 0.4000, 0.9210
CMYK	0.00, 0.30, 0.91, 0.15
HSL	40°, 83%, 47%
HSV	40°, 91%, 85%
XYZ	40.4346, 37.7384, 5.8208
YIQ	157.2730, 81.4330, -27.5830

# Conversions

## Conversions Part 2

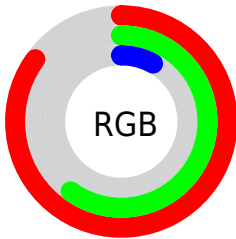
<b>Format</b>	<b>Color</b>
<b>RYB</b>	117, 218, 20
Decimal	14326036
CIELab	67.83, 14.72, 69.19
CIElCh	68, 70.737, 77.988
Yxy	37.7384, 0.4814, 0.4493
Android (android.graphics.Color)	4292516116 (0xFFDA9914)
YUV	157.2730, -67.6756, 53.2576
Hunter-Lab	61.4316, 9.9844, 37.3843

# Details

The Yxy color **37.7384, 0.4814, 0.4493** 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 **11.7327, 0.1694, 0.1226**, and the grayscale version is **34.1378, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.5102, 0.4364, 0.4457**, and **16.6708, 0.4967, 0.4438** is the 20% darker color. If you saturate the color by 10%, you get **35.5836, 0.4929, 0.4468**, and if you desaturate by 10%, it is **40.2716, 0.4662, 0.4477**.

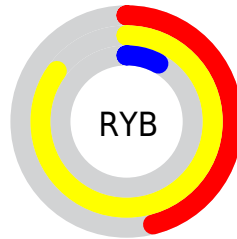
# Distribution



Red (85%)

Green (60%)

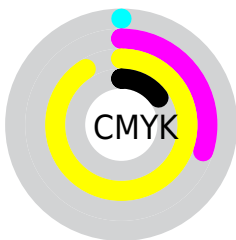
Blue (8%)



Red (46%)

Yellow (85%)

Blue (8%)

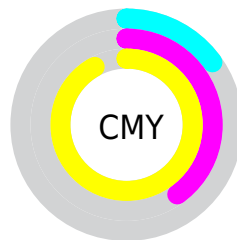


Cyan (0%)

Magenta (30%)

Yellow (91%)

Black (15%)



Cyan (15%)

Magenta (40%)


Yellow (92%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.7384, 0.4814, 0.4493 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 37.7384, 0.4814, 0.4493 by changing the saturation by 10% instead.





 37.7384, 0.4814,  
0.4493


 37.7384, 0.4814,  
0.4493


336.4964, 0.4026,  
0.3995

 25.7797, 0.4966,  
0.4562


 71.7070, 0.4556,  
0.4350


 16.6589, 0.5128,  
0.4615


 94.4857, 0.4450,  
0.4284

 9.9916, 0.5334,  
0.4666


 121.6399, 0.4356,  
0.4224

 5.3934, 0.5435,  
0.4565

 153.5539, 0.4273,  
0.4169

 2.4799, 0.5592,  
0.4408

 190.6122, 0.4200,  
0.4119

 0.8665, 0.5869,  
0.4131

 233.1991, 0.4135,

 0.0000, 1.0000,

0.4074

0.0000

281.6990, 0.4078,  
0.4032

■ 0.0000, 0.0000,  
0.0000

■ 37.7384, 0.4814,  
0.4493

■ 37.7384, 0.4814,  
0.4493

■ 35.5836, 0.4929,  
0.4468

■ 40.2716, 0.4662,  
0.4477

■ 43.0308, 0.4481,  
0.4411

■ 46.0323, 0.4280,  
0.4301

■ 49.2886, 0.4071,  
0.4159

■ 52.8105, 0.3862,  
0.3995

■ 56.6084, 0.3660,  
0.3821

■ 60.6915, 0.3471,  
0.3643

■ 65.0686, 0.3297,  
0.3469

■ 69.7480, 0.3139,  
0.3302

# Harmonies

## Analogous

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



37.7384, 0.5178, 0.3765



37.7384, 0.4814, 0.4493



37.7384, 0.4033, 0.5116

# Triad

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



37.7384, 0.4814, 0.4493



37.7384, 0.1614, 0.3151



37.7384, 0.2871, 0.2010

# Complementary

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



37.7384, 0.4814, 0.4493



11.7327, 0.1694, 0.1226

# 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.



37.7384, 0.2038, 0.1798



37.7384, 0.4814, 0.4493



37.7384, 0.1422, 0.2281

# Square

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



37.7384, 0.4814, 0.4493



37.7384, 0.2193, 0.4365



37.7384, 0.1565, 0.1866



37.7384, 0.3956, 0.2460



# Rectangle

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



37.7384, 0.4814, 0.4493



37.7384, 0.3405, 0.5266



37.7384, 0.1565, 0.1866



37.7384, 0.2554, 0.1910

# Sweetspot

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



37.7403, 0.4814, 0.4493



82.7386, 0.3592, 0.3758



16.0856, 0.5390, 0.2810



17.2899, 0.3659, 0.3819



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.



37.7403, 0.4814, 0.4493



50.4690, 0.4937, 0.4462



60.5181, 0.3908, 0.5231



14.5053, 0.3275, 0.3446



21.5200, 0.4916, 0.4479



1.5491, 0.4769, 0.4596



# Inverse Universe

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



11.7327, 0.1694, 0.1226



13.5265, 0.1621, 0.1034



6.3275, 0.1644, 0.0723



13.3125, 0.2981, 0.3129



5.9560, 0.1632, 0.1075



0.5404, 0.1724, 0.1405



# Previews

## White Background



This preview shows how the Yxy color 37.7384, 0.4814, 0.4493 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 37.7384, 0.4814, 0.4493 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 37.7384, 0.4814, 0.4493**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.7384, 0.4814, 0.4493.



This preview shows how white text looks on a background with the Yxy color 37.7384, 0.4814, 0.4493.

# 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

37.7384, 0.4814, 0.4493

### Protanopia

37.9032, 0.4365, 0.4824

### Deuteranopia

37.7037, 0.4696, 0.4607



## Tritanopia

37.6535, 0.3903, 0.3162

# Trichromacy



## Original Color

37.7384, 0.4814, 0.4493

## Protanomaly

37.5574, 0.4529, 0.4701

## Deuteranomaly

37.8145, 0.4732, 0.4571

## Tritanomaly

37.1073, 0.4369, 0.3774

# Monochromacy



## Original Color

37.7384, 0.4814, 0.4493

## Achromatopsia

33.7164, 0.3127, 0.3290

## Achromatomaly

34.4222, 0.3836, 0.3986

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.7384, 0.4814, 0.4493 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(218, 153, 20)` looks like.

```
.text, #text, p{  
    color:rgb(218, 153, 20)  
}
```

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(218, 153, 20) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(218, 153, 20) }
```

## Border

The CSS property to change the border of an element to Yxy 37.7384, 0.4814, 0.4493 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(218, 153, 20) }
```

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

```
.border{ border-color:rgb(218, 153, 20) }
```

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

Here you see how a box with a 4 pixel `rgb(218, 153, 20)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(218, 153, 20); -webkit-box-  
shadow:4px 4px 4px 4px rgb(218, 153, 20);  
box-shadow:4px 4px 4px 4px rgb(218, 153,  
20) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.7384, 0.4814, 0.4493 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(218, 153, 20) }
```

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

```
.background{ background-color: rgb(218,  
153, 20) }
```

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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