

# Converting Colors

$Y_{xy}(37.8544, 0.4783, 0.4582)$

Have a look what the booklet for  
Yxy(37.8544, 0.4783, 0.4582)  
contains.

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# **Color**

**Yxy(37.7410, 0.4787, 0.4578)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D69B01
RGB	214, 155, 1
RGB Percent	84%, 61%, 0%
CMY	0.1607, 0.3922, 0.9958
CMYK	0.00, 0.28, 1.00, 0.16
HSL	43°, 99%, 42%
HSV	43°, 100%, 84%
XYZ	39.4640, 37.7410, 5.2349
YIQ	155.0850, 84.5980, -35.3860

# Conversions

## Conversions Part 2

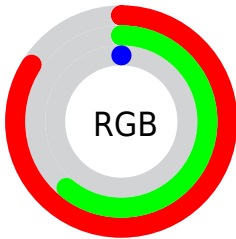
Format	Color
<a href="#">RYB</a>	<a href="#">83, 214, 1</a>
Decimal	<a href="#">14064385</a>
CIELab	<a href="#">67.83, 11.68, 71.81</a>
CIELCh	<a href="#">68, 72.753, 80.761</a>
Yxy	<a href="#">37.7410, 0.4787, 0.4578</a>
Android (android.graphics.Color)	<a href="#">4292254465</a> ( <a href="#">0xFFD69B01</a> )
YUV	<a href="#">155.0850, -75.9639, 51.6685</a>
Hunter-Lab	<a href="#">61.4337, 7.1565, 37.9513</a>

# Details

The Yxy color **37.7410, 0.4787, 0.4578** 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 **8.1047, 0.1595, 0.0939**, and the grayscale version is **33.1378, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.3827, 0.4382, 0.4518**, and **16.7707, 0.4897, 0.4494** is the 20% darker color. If you saturate the color by 10%, you get **37.6425, 0.4792, 0.4577**, and if you desaturate by 10%, it is **39.8237, 0.4681, 0.4589**.

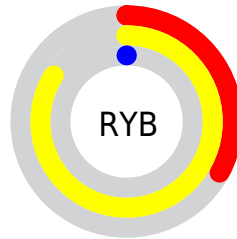
# Distribution



Red (84%)

Green (61%)

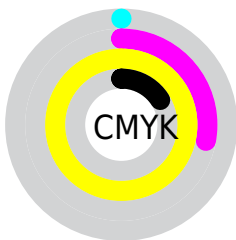
Blue (0%)



Red (33%)

Yellow (84%)

Blue (0%)

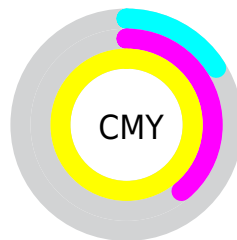


Cyan (0%)

Magenta (28%)

Yellow (100%)

Black (16%)



Cyan (16%)

Magenta (39%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.7410, 0.4787, 0.4578 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 37.7410, 0.4787, 0.4578 by changing the saturation by 10% instead.





 37.7410, 0.4787,  
0.4578


 37.7410, 0.4787,  
0.4578


336.5076, 0.4024,  
0.4041

 25.7817, 0.4928,  
0.4653


 71.7110, 0.4542,  
0.4423


 16.6604, 0.5075,  
0.4714


 94.4905, 0.4439,  
0.4352


 9.9927, 0.5241,  
0.4759


 121.6455, 0.4348,  
0.4287

 5.3941, 0.5322,  
0.4678

 153.5605, 0.4268,  
0.4228

 2.4803, 0.5450,  
0.4550

 190.6198, 0.4196,  
0.4174

 0.8668, 0.5677,  
0.4323

 233.2078, 0.4132,

 0.0000, 1.0000,

0.4126

0.0000

 281.7090, 0.4075,  
0.4082

 0.0000, 0.0000,  
0.0000

 37.7410, 0.4787,  
0.4578


 37.7410, 0.4787,  
0.4578


 37.6425, 0.4792,  
0.4577

 39.8237, 0.4681,  
0.4589

 42.0665, 0.4547,  
0.4556

 44.4919, 0.4386,  
0.4475

 47.1124, 0.4204,  
0.4352

 49.9386, 0.4011,  
0.4197

■ 52.9802, 0.3815,  
0.4021

■ 56.2459, 0.3625,  
0.3834

■ 59.7438, 0.3443,  
0.3645

■ 63.4813, 0.3274,  
0.3459

# Harmonies

## Analogous

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



37.7410, 0.5219, 0.3833



37.7410, 0.4787, 0.4578



37.7410, 0.3959, 0.5201

# Triad

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



37.7410, 0.4787, 0.4578



37.7410, 0.1545, 0.3039



37.7410, 0.2958, 0.2015

# Complementary

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



37.7410, 0.4787, 0.4578



8.1047, 0.1595, 0.0939

# 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.



37.7410, 0.2075, 0.1775



37.7410, 0.4787, 0.4578



37.7410, 0.1387, 0.2195

# Square

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



37.7410, 0.4787, 0.4578



37.7410, 0.2094, 0.4283



37.7410, 0.1562, 0.1814



37.7410, 0.4081, 0.2493



# Rectangle

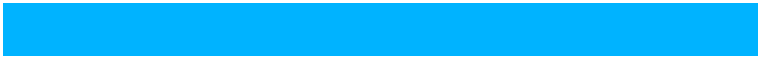
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



37.7410, 0.4787, 0.4578



37.7410, 0.3311, 0.5317



37.7410, 0.1562, 0.1814



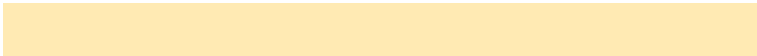
37.7410, 0.2624, 0.1906

# Sweetspot

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



37.7429, 0.4787, 0.4578



83.2235, 0.3639, 0.3849



14.6642, 0.5830, 0.2989



17.3643, 0.3720, 0.3929



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.



37.7429, 0.4787, 0.4578



55.6729, 0.4799, 0.4571



56.4197, 0.3812, 0.5353



13.9108, 0.3273, 0.3458



22.9295, 0.4781, 0.4586



1.5187, 0.4657, 0.4684



# Inverse Universe

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



8.1047, 0.1595, 0.0939



11.6862, 0.1588, 0.0915



5.4886, 0.1610, 0.0663



12.5634, 0.2982, 0.3117



4.9963, 0.1599, 0.0955



0.4403, 0.1694, 0.1299



# Previews

## White Background



This preview shows how the Yxy color 37.7410, 0.4787, 0.4578 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

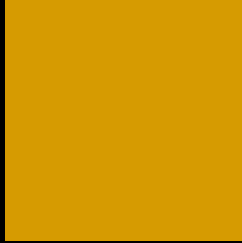
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 37.7410, 0.4787, 0.4578 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 37.7410, 0.4787, 0.4578**

## Background



This preview shows how black text looks on a background with the Yxy color 37.7410, 0.4787, 0.4578.



This preview shows how white text looks on a background with the Yxy color 37.7410, 0.4787, 0.4578.

# 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

37.7410, 0.4787, 0.4578

### Protanopia

37.8663, 0.4387, 0.4857

### Tritanopia

37.6852, 0.3832, 0.3160

# Trichromacy



## Original Color

37.7410, 0.4787, 0.4578

## Protanomaly

37.7307, 0.4535, 0.4754

## Tritanomaly

36.9861, 0.4373, 0.3874

# Monochromacy



## Original Color

37.7410, 0.4787, 0.4578

## Achromatopsia

32.7778, 0.3127, 0.3290

## Achromatomaly

33.5736, 0.3885, 0.4092

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.7410, 0.4787, 0.4578 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(214, 155, 1)` looks like.

```
.text, #text, p{  
    color:rgb(214, 155, 1)  
}
```

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(214, 155, 1) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(214, 155, 1) }
```

## Border

The CSS property to change the border of an element to Yxy 37.7410, 0.4787, 0.4578 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(214, 155, 1) }
```

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

```
.border{ border-color:rgb(214, 155, 1) }
```

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

Here you see how a box with a 4 pixel `rgb(214, 155, 1)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(214, 155, 1); -webkit-box-  
shadow:4px 4px 4px 4px rgb(214, 155, 1);  
box-shadow:4px 4px 4px 4px rgb(214, 155,  
1) }
```

# Background

The CSS property to change the background color of an element to Yxy 37.7410, 0.4787, 0.4578 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(214, 155, 1) }
```

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

```
.background{ background-color: rgb(214,  
155, 1) }
```

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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