

# Converting Colors

$Y_{xy}(36.1713, 0.4937, 0.4436)$

Have a look what the booklet for  
Yxy(36.1713, 0.4937, 0.4436)  
contains.

<b>Yxy(36.2593, 0.4933, 0.4438)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(36.2593, 0.4933, 0.4438)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DD9309
RGB	221, 147, 9
RGB Percent	87%, 58%, 4%
CMY	0.1333, 0.4235, 0.9638
CMYK	0.00, 0.33, 0.96, 0.13
HSL	39°, 92%, 45%
HSV	39°, 96%, 87%
XYZ	40.3035, 36.2593, 5.1390
YIQ	153.3940, 88.4020, -27.2300

# Conversions

## Conversions Part 2

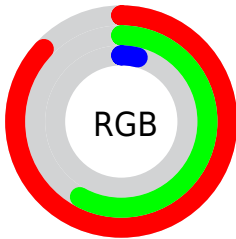
Format	Color
<a href="#">RYB</a>	<a href="#">123, 221, 9</a>
Decimal	<a href="#">14521097</a>
CIELab	<a href="#">66.72, 19.10, 70.34</a>
CIELCh	<a href="#">67, 72.886, 74.809</a>
Yxy	<a href="#">36.2593, 0.4933, 0.4438</a>
Android (android.graphics.Color)	<a href="#">4292711177</a> ( <a href="#">0xFFDD9309</a> )
YUV	<a href="#">153.3940, -71.1862, 59.2905</a>
Hunter-Lab	<a href="#">60.2157, 14.0961, 37.0909</a>

# Details

The Yxy color **36.2593, 0.4933, 0.4438** 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 **11.5010, 0.1669, 0.1179**, and the grayscale version is **32.3361, 0.3127, 0.3290**.

A 20% lighter version of the original color is **63.5691, 0.4439, 0.4446**, and **15.8393, 0.5105, 0.4329** is the 20% darker color. If you saturate the color by 10%, you get **35.2525, 0.4987, 0.4422**, and if you desaturate by 10%, it is **38.8246, 0.4788, 0.4453**.

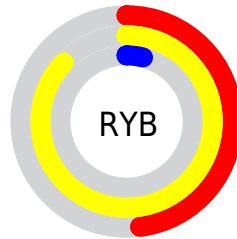
# Distribution



Red (87%)

Green (58%)

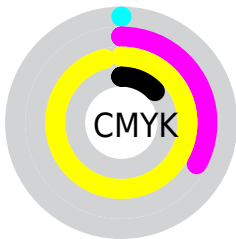
Blue (4%)



Red (48%)

Yellow (87%)

Blue (4%)

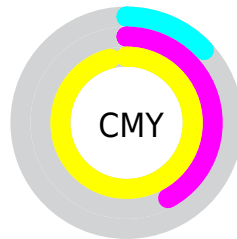


Cyan (0%)

Magenta (33%)

Yellow (96%)

Black (13%)



Cyan (13%)

Magenta (42%)


Yellow (96%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.2593, 0.4933, 0.4438 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 36.2593, 0.4933, 0.4438 by changing the saturation by 10% instead.





 36.2593, 0.4933,  
0.4438


 36.2593, 0.4933,  
0.4438


330.0925, 0.4085,  
0.3983

 24.6345, 0.5096,  
0.4490


 69.4321, 0.4655,  
0.4315

 15.8050, 0.5274,  
0.4522


 91.7489, 0.4541,  
0.4256


 9.3863, 0.5477,  
0.4523


 118.3985, 0.4440,  
0.4200

 4.9940, 0.5610,  
0.4390

 149.7654, 0.4351,  
0.4148

 2.2437, 0.5818,  
0.4182

 186.2338, 0.4272,  
0.4101

 0.7437, 0.6210,  
0.3790


 228.1882, 0.4203,


 0.0000, 1.0000,


0.4058


0.0000

 276.0129, 0.4140,  
0.4019

 0.0000, 0.0000,  
0.0000


 36.2593, 0.4933,  
0.4438

 36.2593, 0.4933,  
0.4438

 35.2525, 0.4987,  
0.4422

 38.8246, 0.4788,  
0.4453

 41.6322, 0.4611,  
0.4416

 44.7010, 0.4410,  
0.4332

 48.0453, 0.4196,  
0.4209

 51.6776, 0.3979,  
0.4058

■ 55.6093, 0.3768,  
0.3893

■ 59.8511, 0.3569,  
0.3720

■ 64.4126, 0.3385,  
0.3549

■ 69.3031, 0.3217,  
0.3383

# Harmonies

## Analogous

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



36.2593, 0.5261, 0.3687



36.2593, 0.4933, 0.4438



36.2593, 0.4149, 0.5128

# Triad

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



36.2593, 0.4933, 0.4438



36.2593, 0.1602, 0.3263



36.2593, 0.2749, 0.1931

# Complementary

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



36.2593, 0.4933, 0.4438



11.5010, 0.1669, 0.1179

# 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.



36.2593, 0.1930, 0.1743



36.2593, 0.4933, 0.4438



36.2593, 0.1371, 0.2307

# Square

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



36.2593, 0.4933, 0.4438



36.2593, 0.2236, 0.4548



36.2593, 0.1484, 0.1841



36.2593, 0.3867, 0.2370



# Rectangle

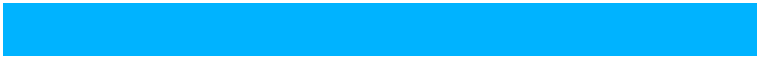
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



36.2593, 0.4933, 0.4438



36.2593, 0.3507, 0.5354



36.2593, 0.1484, 0.1841



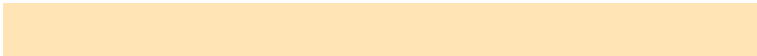
36.2593, 0.2434, 0.1839

# Sweetspot

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



36.2612, 0.4933, 0.4438



80.7256, 0.3635, 0.3779



16.2027, 0.5485, 0.2822



16.7410, 0.3721, 0.3853



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.



36.2612, 0.4933, 0.4438



48.4953, 0.4995, 0.4416



62.5836, 0.3932, 0.5241



14.4581, 0.3275, 0.3442



20.6979, 0.4972, 0.4434



1.5001, 0.4813, 0.4561



# Inverse Universe

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



11.5010, 0.1669, 0.1179



14.3818, 0.1636, 0.1087



5.8921, 0.1585, 0.0664



13.3577, 0.2981, 0.3134



6.3265, 0.1647, 0.1129



0.5682, 0.1739, 0.1459



# Previews

## White Background



This preview shows how the Yxy color 36.2593, 0.4933, 0.4438 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 36.2593, 0.4933, 0.4438 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 36.2593, 0.4933, 0.4438**

## Background



This preview shows how black text looks on a background with the Yxy color 36.2593, 0.4933, 0.4438.



This preview shows how white text looks on a background with the Yxy color 36.2593, 0.4933, 0.4438.

# 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

36.2593, 0.4933, 0.4438

### Protanopia

36.4252, 0.4383, 0.4843

### Deuteranopia

36.2330, 0.4727, 0.4628



## Tritanopia

36.3288, 0.4011, 0.3175

# Trichromacy



## Original Color

36.2593, 0.4933, 0.4438

## Protanomaly

36.0160, 0.4585, 0.4696

## Deuteranomaly

35.9887, 0.4805, 0.4557

## Tritanomaly

35.9204, 0.4515, 0.3795

# Monochromacy



## Original Color

36.2593, 0.4933, 0.4438

## Achromatopsia

31.8547, 0.3127, 0.3290

## Achromatomaly

32.5378, 0.3912, 0.4006

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.2593, 0.4933, 0.4438 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(221, 147, 9)` looks like.

```
.text, #text, p{  
    color:rgb(221, 147, 9)  
}
```

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(221, 147, 9) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 147, 9) }
```

## Border

The CSS property to change the border of an element to Yxy 36.2593, 0.4933, 0.4438 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(221, 147, 9) }
```

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

```
.border{ border-color:rgb(221, 147, 9) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 147, 9)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 147, 9); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 147, 9);  
box-shadow:4px 4px 4px 4px rgb(221, 147,  
9) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.2593, 0.4933, 0.4438 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 147, 9) }
```

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

```
.background{ background-color: rgb(221,  
147, 9) }
```

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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