

# Converting Colors

$Y_{xy}(37.2209, 0.5332, 0.4147)$

Have a look what the booklet for  
Yxy(37.2209, 0.5332, 0.4147)  
contains.

<b>Yxy(37.1012, 0.5337, 0.4141)</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(37.1012, 0.5337, 0.4141)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FA8501
RGB	250, 133, 1
RGB Percent	98%, 52%, 0%
CMY	0.0196, 0.4784, 0.9951
CMYK	0.00, 0.47, 0.99, 0.02
HSL	32°, 99%, 49%
HSV	32°, 99%, 98%
XYZ	47.8167, 37.1012, 4.6768
YIQ	152.9350, 112.1040, -16.2480

# Conversions

## Conversions Part 2

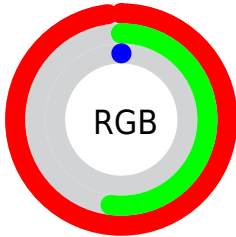
Format	Color
<a href="#">RYB</a>	222, 250, 1
Decimal	16418049
CIELab	67.35, 38.39, 73.67
CIELCh	67, 83.070, 62.478
Yxy	37.1012, 0.5337, 0.4141
Android (android.graphics.Color)	4294608129 (0xFFFA8501)
YUV	152.9350, -74.9040, 85.1260
Hunter-Lab	60.9108, 33.5339, 38.0851

# Details

The Yxy color **37.1012, 0.5337, 0.4141** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **19.9234, 0.1739, 0.1457**, and the grayscale version is **32.1356, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.2951, 0.4567, 0.4344**, and **16.3240, 0.5596, 0.3939** is the 20% darker color. If you saturate the color by 10%, you get **36.9389, 0.5346, 0.4137**, and if you desaturate by 10%, it is **40.5782, 0.5151, 0.4206**.

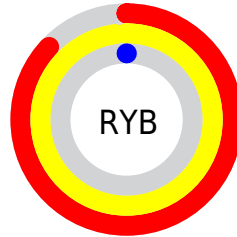
# Distribution



Red (98%)

Green (52%)

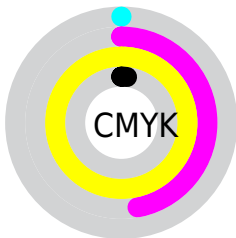
Blue (0%)



Red (87%)

Yellow (98%)

Blue (0%)

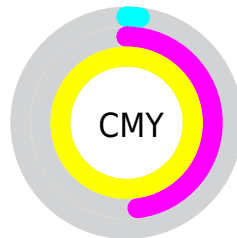


Cyan (0%)

Magenta (47%)

Yellow (99%)

Black (2%)



Cyan (2%)

Magenta (48%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.1012, 0.5337, 0.4141 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 37.1012, 0.5337, 0.4141 by changing the saturation by 10% instead.



 37.1012, 0.5337,  
0.4141


 37.1012, 0.5337,  
0.4141


333.7485, 0.4297,  
0.3890


 25.2859, 0.5540,  
0.4133


 70.7284, 0.4996,  
0.4102

 16.2902, 0.5769,  
0.4091


 93.3091, 0.4856,  
0.4072


 9.7297, 0.6016,  
0.3984

 120.2469, 0.4732,  
0.4039

 5.2201, 0.6247,  
0.3753

 151.9264, 0.4624,  
0.4007

 2.3770, 0.6591,  
0.3409

 188.7319, 0.4527,  
0.3975

 0.8140, 0.7152,  
0.2848

 231.0478, 0.4442,


 0.0000, 1.0000,


0.3945


0.0000

 279.2585, 0.4366,  
0.3917


 0.0000, 0.0000,  
0.0000

 37.1012, 0.5337,  
0.4141


 37.1012, 0.5337,  
0.4141


 36.9389, 0.5346,  
0.4137

 40.5782, 0.5151,  
0.4206

 44.5174, 0.4928,  
0.4218

 48.9576, 0.4675,  
0.4177

 53.9258, 0.4410,  
0.4093

 59.4458, 0.4148,  
0.3977

65.5396, 0.3899,  
0.3842

72.2272, 0.3670,  
0.3699

79.5277, 0.3464,  
0.3555

87.4591, 0.3281,  
0.3416

# Harmonies

## Analogous

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



37.1012, 0.5445, 0.3357



37.1012, 0.5337, 0.4141



37.1012, 0.4601, 0.4989

# Triad

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



37.1012, 0.5337, 0.4141



37.1012, 0.1659, 0.3839



37.1012, 0.2275, 0.1685

# Complementary

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



37.1012, 0.5337, 0.4141



19.9234, 0.1739, 0.1457

# 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.



37.1012, 0.1566, 0.1599



37.1012, 0.5337, 0.4141



37.1012, 0.1256, 0.2534

# Square

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



37.1012, 0.5337, 0.4141



37.1012, 0.2505, 0.5246



37.1012, 0.1244, 0.1836



37.1012, 0.3409, 0.2050



# Rectangle

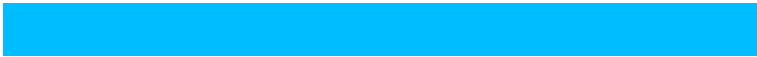
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



37.1012, 0.5337, 0.4141



37.1012, 0.3934, 0.5464



37.1012, 0.1244, 0.1836



37.1012, 0.1990, 0.1624

# Sweetspot

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



37.1032, 0.5337, 0.4141



75.1686, 0.3682, 0.3707



21.7422, 0.5059, 0.2563



15.4437, 0.3776, 0.3768



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.



37.1032, 0.5337, 0.4141



38.6077, 0.5347, 0.4136



87.9347, 0.4163, 0.5075



18.7474, 0.3281, 0.3416



19.8857, 0.5322, 0.4156



2.0541, 0.5150, 0.4293



# Inverse Universe

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



19.9234, 0.1739, 0.1457



20.6359, 0.1735, 0.1446



6.9638, 0.1505, 0.0605



17.9892, 0.2980, 0.3161



10.7639, 0.1744, 0.1478



1.2072, 0.1806, 0.1701



# Previews

## White Background



This preview shows how the Yxy color 37.1012, 0.5337, 0.4141 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 37.1012, 0.5337, 0.4141 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 37.1012, 0.5337, 0.4141**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.1012, 0.5337, 0.4141.



This preview shows how white text looks on a background with the Yxy color 37.1012, 0.5337, 0.4141.

# 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

37.1012, 0.5337, 0.4141

### Protanopia

37.2787, 0.4363, 0.4841

### Deuteranopia

37.1868, 0.4722, 0.4633



## Tritanopia

37.1521, 0.4518, 0.3213

# Trichromacy



## Original Color

37.1012, 0.5337, 0.4141

## Protanomaly

36.3695, 0.4746, 0.4570

## Deuteranomaly

36.8678, 0.4952, 0.4450

## Tritanomaly

36.7015, 0.5007, 0.3698

# Monochromacy



## Original Color

37.1012, 0.5337, 0.4141

## Achromatopsia

31.8547, 0.3127, 0.3290

## Achromatomaly

32.1310, 0.4083, 0.3949

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.1012, 0.5337, 0.4141 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(250, 133, 1)` looks like.

```
.text, #text, p{  
    color:rgb(250, 133, 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(250, 133, 1) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 133, 1) }
```

## Border

The CSS property to change the border of an element to Yxy 37.1012, 0.5337, 0.4141 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(250, 133, 1) }
```

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

```
.border{ border-color:rgb(250, 133, 1) }
```

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

Here you see how a box with a 4 pixel `rgb(250, 133, 1)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 133, 1); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 133, 1);  
box-shadow:4px 4px 4px 4px rgb(250, 133,  
1) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.1012, 0.5337, 0.4141 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 133, 1) }
```

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

```
.background{ background-color: rgb(250,  
133, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor