

# Converting Colors

$Y_{xy}(37.1708, 0.5255, 0.3932)$

Have a look what the booklet for  
Yxy(37.1708, 0.5255, 0.3932)  
contains.

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# Color

**Yxy(37.1995, 0.5253, 0.3933)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8133
RGB	255, 129, 51
RGB Percent	100%, 51%, 20%
CMY	0.0001, 0.4940, 0.7998
CMYK	0.00, 0.49, 0.80, 0.00
HSL	23°, 100%, 60%
HSV	23°, 80%, 100%
XYZ	49.6845, 37.1995, 7.6991
YIQ	157.7820, 100.1340, 2.4540

# Conversions

## Conversions Part 2

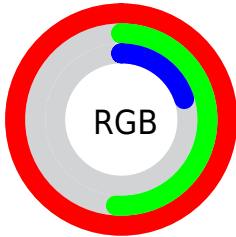
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 177, 51
Decimal	16744755
CIE <sub>Lab</sub>	67.43, 43.18, 61.14
CIE <sub>LCh</sub>	67, 74.847, 54.767
Yxy	37.1995, 0.5253, 0.3933
Android (android.graphics.Color)	4294934835 (0xFFFF8133)
YUV	157.7820, -52.6435, 85.2602
Hunter-Lab	60.9914, 38.6737, 35.2097

# Details

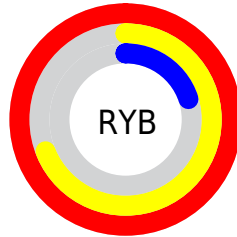
The Yxy color **37.1995, 0.5253, 0.3933** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **39.3750, 0.2010, 0.2252**, and the grayscale version is **34.3017, 0.3127, 0.3290**.

A 20% lighter version of the original color is **56.5203, 0.4412, 0.4099**, and **16.3841, 0.5691, 0.3863** is the 20% darker color. If you saturate the color by 10%, you get **33.1996, 0.5544, 0.3887**, and if you desaturate by 10%, it is **41.9662, 0.4926, 0.3927**.

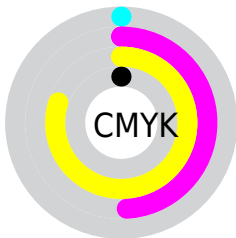
# Distribution



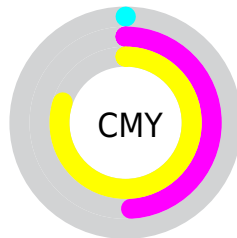
- Red (100%)
- Green (51%)
- Blue (20%)



- Red (100%)
- Yellow (69%)
- Blue (20%)



- Cyan (0%)
- Magenta (49%)
- Yellow (80%)
- Black (0%)




- Cyan (0%)
- Magenta (49%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.1995, 0.5253, 0.3933 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 37.1995, 0.5253, 0.3933 by changing the saturation by 10% instead.




 37.1995, 0.5253,  
0.3933


 37.1995, 0.5253,  
0.3933


334.1734, 0.4208,  
0.3741

 25.3620, 0.5480,  
0.3928


 70.8795, 0.4893,  
0.3901


 16.3470, 0.5744,  
0.3892


 93.4908, 0.4751,  
0.3878


 9.7700, 0.6084,  
0.3823


 120.4621, 0.4628,  
0.3853

 5.2467, 0.6392,  
0.3608

 152.1779, 0.4521,  
0.3828

 2.3927, 0.6760,  
0.3240

 189.0226, 0.4428,  
0.3805

 0.8222, 0.7348,  
0.2652

 231.3804, 0.4346,

 0.0000, 1.0000,

0.3782

0.0000

279.6359, 0.4273,  
0.3761

■ 0.0000, 0.0000,  
0.0000

■ 37.1995, 0.5253,  
0.3933

■ 37.1995, 0.5253,  
0.3933

■ 33.1996, 0.5544,  
0.3887

■ 41.9662, 0.4926,  
0.3927

■ 29.9024, 0.5779,  
0.3793

■ 47.5386, 0.4591,  
0.3877

■ 29.8962, 0.5779,  
0.3793

■ 53.9591, 0.4270,  
0.3797

■ 61.2651, 0.3975,  
0.3699

■ 69.4914, 0.3715,  
0.3594

78.6706, 0.3488,  
0.3488

88.8337, 0.3293,  
0.3386

99.9969, 0.3127,  
0.3290

# Harmonies

## Analogous

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



37.1995, 0.5123, 0.3207



37.1995, 0.5253, 0.3933



37.1995, 0.4727, 0.4701

# Triad

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



37.1995, 0.5253, 0.3933



37.1995, 0.1961, 0.4142



37.1995, 0.2144, 0.1755

# Complementary

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



37.1995, 0.5253, 0.3933



39.3750, 0.2010, 0.2252

# 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.



37.1995, 0.1572, 0.1752



37.1995, 0.5253, 0.3933



37.1995, 0.1459, 0.2878

# Square

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



37.1995, 0.5253, 0.3933



37.1995, 0.2835, 0.5218



37.1995, 0.1350, 0.2084



37.1995, 0.3097, 0.2034



# Rectangle

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



37.1995, 0.5253, 0.3933



37.1995, 0.4159, 0.5153



37.1995, 0.1350, 0.2084



37.1995, 0.1911, 0.1722

# Sweetspot

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



37.2015, 0.5253, 0.3933



74.8738, 0.3575, 0.3531



26.9328, 0.4106, 0.2182



15.3319, 0.3657, 0.3568



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.



37.2015, 0.5253, 0.3933



31.1410, 0.5690, 0.3834



76.8692, 0.4326, 0.4783



19.1254, 0.3285, 0.3381



15.8894, 0.5750, 0.3816



1.7504, 0.5538, 0.3985

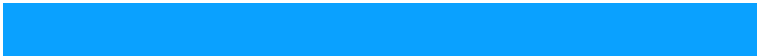


# Inverse Universe

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



39.3750, 0.2010, 0.2252



32.9187, 0.1899, 0.2017



13.4072, 0.1684, 0.1019



19.2465, 0.2979, 0.3197



16.7606, 0.1884, 0.1983



1.8433, 0.1930, 0.2148



# Previews

## White Background



This preview shows how the Yxy color 37.1995, 0.5253, 0.3933 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 37.1995, 0.5253, 0.3933 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 37.1995, 0.5253, 0.3933**

## Background



This preview shows how black text looks on a background with the Yxy color 37.1995, 0.5253, 0.3933.



This preview shows how white text looks on a background with the Yxy color 37.1995, 0.5253, 0.3933.

# 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

37.1995, 0.5253, 0.3933

### Protanopia

37.4375, 0.4188, 0.4602

### Deuteranopia

37.2024, 0.4609, 0.4509



## Tritanopia

37.0646, 0.4544, 0.3213

# Trichromacy



**Original Color**

37.1995, 0.5253, 0.3933

**Protanomaly**

36.4535, 0.4596, 0.4346

**Deuteranomaly**

36.5945, 0.4856, 0.4283

**Tritanomaly**

36.8865, 0.4861, 0.3518

# Monochromacy



**Original Color**

37.1995, 0.5253, 0.3933

**Achromatopsia**

34.1914, 0.3127, 0.3290

**Achromatomaly**

33.5368, 0.3915, 0.3672

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.1995, 0.5253, 0.3933 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(255, 129, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 129, 51)  
}
```

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(255, 129, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 129, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 37.1995, 0.5253, 0.3933 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(255, 129, 51) }
```

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

```
.border{ border-color:rgb(255, 129, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 129, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 129, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 129, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 129,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.1995, 0.5253, 0.3933 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 129, 51) }
```

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

```
.background{ background-color: rgb(255,  
129, 51) }
```

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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