

# Converting Colors

$Y_{xy}(42.1831, 0.4716, 0.3710)$

Have a look what the booklet for  
Yxy(42.1831, 0.4716, 0.3710)  
contains.

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# Color

**Yxy(42.1658, 0.4717, 0.3710)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9066
RGB	255, 144, 102
RGB Percent	100%, 56%, 40%
CMY	0.0000, 0.4353, 0.6001
CMYK	0.00, 0.44, 0.60, 0.00
HSL	16°, 100%, 70%
HSV	16°, 60%, 100%
XYZ	53.6108, 42.1658, 17.8778
YIQ	172.4010, 79.6380, 10.4700

# Conversions

## Conversions Part 2

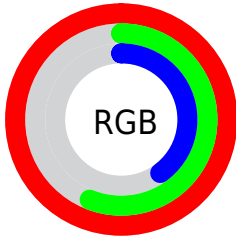
Format	Color
R <sub>Y</sub> B	255, 160, 102
Decimal	16748646
CIE Lab	70.99, 38.18, 40.46
CIE LCh	71, 55.630, 46.657
Yxy	42.1658, 0.4717, 0.3710
Android (android.graphics.Color)	4294938726 (0xFFFF9066)
YUV	172.4010, -34.7077, 72.4393
Hunter-Lab	64.9352, 33.7338, 29.1310

# Details

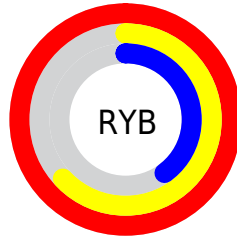
The Yxy color **42.1658, 0.4717, 0.3710** is a light color, and the websafe version is hex **FF9966**. A complement of this color would be **57.6175, 0.2273, 0.2768**, and the grayscale version is **41.6186, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.4399, 0.3938, 0.3760**, and **19.2581, 0.5137, 0.3735** is the 20% darker color. If you saturate the color by 10%, you get **36.5858, 0.5103, 0.3737**, and if you desaturate by 10%, it is **48.8236, 0.4352, 0.3656**.

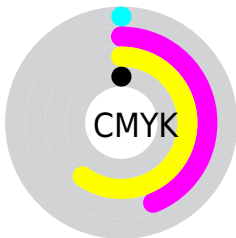
# Distribution



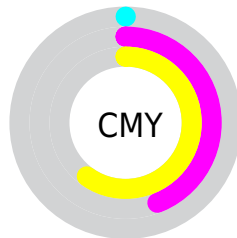
- Red (100%)
- Green (56%)
- Blue (40%)



- Red (100%)
- Yellow (63%)
- Blue (40%)



- Cyan (0%)
- Magenta (44%)
- Yellow (60%)
- Black (0%)




- Cyan (0%)
- Magenta (44%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.1658, 0.4717, 0.3710 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 42.1658, 0.4717, 0.3710 by changing the saturation by 10% instead.





 42.1658, 0.4717,  
0.3710

 42.1658, 0.4717,  
0.3710


355.1698, 0.3915,  
0.3557


 29.2311, 0.4910,  
0.3726


 78.4505, 0.4429,  
0.3670


 19.2557, 0.5151,  
0.3734

 102.5693, 0.4319,  
0.3650

 11.8552, 0.5455,  
0.3721

 131.1850, 0.4226,  
0.3632

 6.6452, 0.5841,  
0.3660

 164.6819, 0.4146,  
0.3614

 3.2412, 0.6441,  
0.3559

203.4444, 0.4076,  
0.3598

 1.2589, 0.6902,  
0.3098

247.8570, 0.4016,

 0.1091, 0.9060,

0.3584

0.0940

298.3040, 0.3962,  
0.3570

0.0000, 0.0000,  
0.0000

42.1658, 0.4717,  
0.3710

42.1658, 0.4717,  
0.3710

36.5858, 0.5103,  
0.3737

48.8236, 0.4352,  
0.3656

32.0176, 0.5480,  
0.3726

56.6073, 0.4024,  
0.3587

28.3974, 0.5807,  
0.3668

65.5695, 0.3740,  
0.3511

25.6452, 0.6054,  
0.3575

75.7578, 0.3499,  
0.3434

87.2168, 0.3297,  
0.3360

99.9892, 0.3127,  
0.3290

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



42.1658, 0.4435, 0.3132



42.1658, 0.4717, 0.3710



42.1658, 0.4502, 0.4281

# Triad

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



42.1658, 0.4717, 0.3710



42.1658, 0.2452, 0.4119



42.1658, 0.2249, 0.2089

# Complementary

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



42.1658, 0.4717, 0.3710



57.6175, 0.2273, 0.2768

# 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.



42.1658, 0.1861, 0.2174



42.1658, 0.4717, 0.3710



42.1658, 0.1952, 0.3253

# Square

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



42.1658, 0.4717, 0.3710



42.1658, 0.3174, 0.4704



42.1658, 0.1758, 0.2552



42.1658, 0.2909, 0.2251



# Rectangle

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



42.1658, 0.4717, 0.3710



42.1658, 0.4145, 0.4594



42.1658, 0.1758, 0.2552



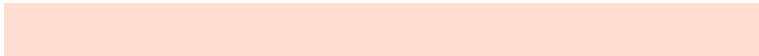
42.1658, 0.2088, 0.2087

# Sweetspot

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



42.1680, 0.4717, 0.3710



77.9555, 0.3456, 0.3418



35.6237, 0.3604, 0.2208



16.0076, 0.3519, 0.3441



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.



42.1680, 0.4717, 0.3710



35.5970, 0.5180, 0.3738



73.0361, 0.4182, 0.4424



18.7989, 0.3287, 0.3356



13.6123, 0.6026, 0.3597



1.4985, 0.5806, 0.3772



# Inverse Universe

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



57.6175, 0.2273, 0.2768



52.0329, 0.2154, 0.2643



28.1301, 0.2048, 0.1769



19.5881, 0.2980, 0.3223



22.1571, 0.1992, 0.2369



2.3401, 0.2024, 0.2487



# Previews

## White Background



This preview shows how the Yxy color 42.1658, 0.4717, 0.3710 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 42.1658, 0.4717, 0.3710 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

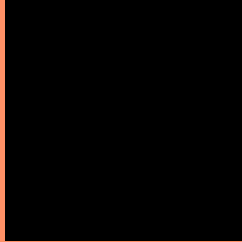
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.1658, 0.4717, 0.3710**

## Background



This preview shows how black text looks on a background with the Yxy color 42.1658, 0.4717, 0.3710.



This preview shows how white text looks on a background with the Yxy color 42.1658, 0.4717, 0.3710.

# 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

42.1658, 0.4717, 0.3710

### Protanopia

42.2832, 0.3792, 0.4101

### Deuteranopia

42.2816, 0.4209, 0.4117



## Tritanopia

42.1861, 0.4250, 0.3200

# Trichromacy



**Original Color**

42.1658, 0.4717, 0.3710

**Protanomaly**

41.4446, 0.4126, 0.3950

**Deuteranomaly**

41.8486, 0.4394, 0.3957

**Tritanomaly**

41.9757, 0.4432, 0.3387

# Monochromacy



**Original Color**

42.1658, 0.4717, 0.3710

**Achromatopsia**

41.2543, 0.3127, 0.3290

**Achromatomaly**

40.5038, 0.3660, 0.3485

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.1658, 0.4717, 0.3710 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, 144, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 144, 102)  
}
```

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, 144, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 144, 102) }
```

## Border

The CSS property to change the border of an element to Yxy 42.1658, 0.4717, 0.3710 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, 144, 102) }
```

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

```
.border{ border-color:rgb(255, 144, 102) }
```

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

Here you see how a box with a 4 pixel rgb(255, 144, 102) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 144, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 144, 102);  
box-shadow:4px 4px 4px 4px rgb(255, 144,  
102) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.1658, 0.4717, 0.3710 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 144, 102) }
```

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

```
.background{ background-color: rgb(255,  
144, 102) }
```

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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