

# Converting Colors

$Y_{xy}(30.1794, 0.4841, 0.3779)$

Have a look what the booklet for  
Yxy(30.1794, 0.4841, 0.3779)  
contains.

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# Color

**Yxy(29.9987, 0.4842, 0.3777)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DE7A4E
RGB	222, 122, 78
RGB Percent	87%, 48%, 31%
CMY	0.1294, 0.5215, 0.6942
CMYK	0.00, 0.45, 0.65, 0.13
HSL	18°, 69%, 59%
HSV	18°, 65%, 87%
XYZ	38.4574, 29.9987, 10.9685
YIQ	146.8840, 73.7240, 7.5160

# Conversions

## Conversions Part 2

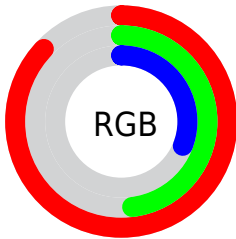
Format	Color
R <sub>YB</sub>	222, 141, 78
Decimal	14580302
CIE Lab	61.65, 35.10, 40.83
CIE LCh	62, 53.842, 49.310
Yxy	29.9987, 0.4842, 0.3777
Android (android.graphics.Color)	4292770382 (0xFFDE7A4E)
YUV	146.8840, -33.9598, 65.8767
Hunter-Lab	54.7711, 29.4841, 26.4662

# Details

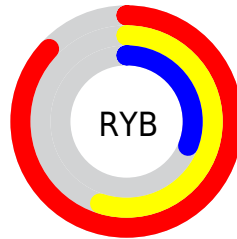
The Yxy color **29.9987, 0.4842, 0.3777** is a dark color, and the websafe version is hex **CC6633**. The color can be described as middle muted orange. A complement of this color would be **38.7225, 0.2211, 0.2655**, and the grayscale version is **29.2481, 0.3127, 0.3290**.

A 20% lighter version of the original color is **53.8692, 0.4267, 0.3790**, and **12.2868, 0.5364, 0.3788** is the 20% darker color. If you saturate the color by 10%, you get **26.2438, 0.5211, 0.3794**, and if you desaturate by 10%, it is **34.4645, 0.4481, 0.3727**.

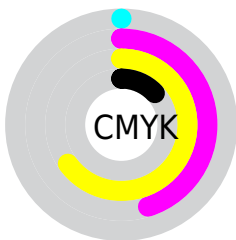
# Distribution



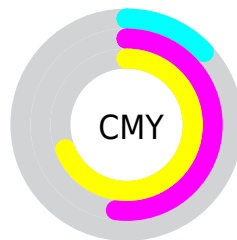
- Red (87%)
- Green (48%)
- Blue (31%)



- Red (87%)
- Yellow (55%)
- Blue (31%)



- Cyan (0%)
- Magenta (45%)
- Yellow (65%)
- Black (13%)



- Cyan (13%)
- Magenta (52%)
- Yellow (69%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.9987, 0.4842, 0.3777 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 29.9987, 0.4842, 0.3777 by changing the saturation by 10% instead.





 29.9987, 0.4842,  
0.3777


 29.9987, 0.4842,  
0.3777


301.8984, 0.3934,  
0.3590


 19.8376, 0.5071,  
0.3794


 59.6601, 0.4507,  
0.3729


 12.2771, 0.5360,  
0.3794


 79.9292, 0.4382,  
0.3704


 6.9327, 0.5726,  
0.3753


 104.3365, 0.4277,  
0.3681

 3.4200, 0.6310,  
0.3690

 133.2662, 0.4187,  
0.3660

 1.3547, 0.6734,  
0.3266

 167.1029, 0.4111,  
0.3640

 0.1830, 0.8510,  
0.1490

206.2309, 0.4044,

 0.0000, 0.0000,

0.3622

0.0000

251.0346, 0.3986,  
0.3605

■ 29.9987, 0.4842,  
0.3777

■ 29.9987, 0.4842,  
0.3777

■ 26.2438, 0.5211,  
0.3794

■ 34.4645, 0.4481,  
0.3727

■ 23.1556, 0.5558,  
0.3767

■ 39.6726, 0.4149,  
0.3656

■ 20.6912, 0.5845,  
0.3692

■ 45.6580, 0.3855,  
0.3574

■ 19.6465, 0.5968,  
0.3643

■ 52.4520, 0.3602,  
0.3489

■ 60.0841, 0.3387,  
0.3406

■ 68.5824, 0.3205,  
0.3327

■ 77.9733, 0.3052,  
0.3253

■ 88.2447, 0.2926,  
0.3191

■ 94.2688, 0.2929,  
0.3289

# Harmonies

## Analogous

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



29.9987, 0.4593, 0.3163



29.9987, 0.4842, 0.3777



29.9987, 0.4555, 0.4388

# Triad

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



29.9987, 0.4842, 0.3777



29.9987, 0.2334, 0.4115



29.9987, 0.2235, 0.2013

# Complementary

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



29.9987, 0.4842, 0.3777



38.7225, 0.2211, 0.2655

# 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.



29.9987, 0.1799, 0.2073



29.9987, 0.4842, 0.3777



29.9987, 0.1833, 0.3161

# Square

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



29.9987, 0.4842, 0.3777



29.9987, 0.3092, 0.4806



29.9987, 0.1662, 0.2438



29.9987, 0.2962, 0.2207



# Rectangle

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



29.9987, 0.4842, 0.3777



29.9987, 0.4148, 0.4723



29.9987, 0.1662, 0.2438



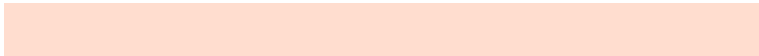
29.9987, 0.2056, 0.2002

# Sweetspot

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



30.0003, 0.4842, 0.3777



77.6468, 0.3474, 0.3441



24.2221, 0.3716, 0.2197



15.9802, 0.3537, 0.3465



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.



30.0003, 0.4842, 0.3777



34.2466, 0.5345, 0.3790



54.3042, 0.4220, 0.4528



14.3804, 0.3284, 0.3362



11.8429, 0.5942, 0.3664



0.9757, 0.5638, 0.3906



# Inverse Universe

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



38.7225, 0.2211, 0.2655



46.7348, 0.2083, 0.2495



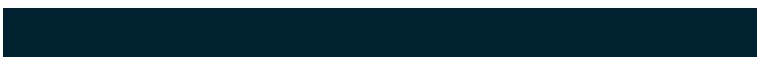
17.3643, 0.1956, 0.1575



14.8281, 0.2982, 0.3217



17.0916, 0.1963, 0.2265



1.3407, 0.2012, 0.2442



# Previews

## White Background



This preview shows how the Yxy color 29.9987, 0.4842, 0.3777 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 29.9987, 0.4842, 0.3777 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

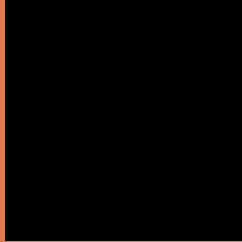
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 29.9987, 0.4842, 0.3777**

## **Background**



This preview shows how black text looks on a background with the Yxy color 29.9987, 0.4842, 0.3777.



This preview shows how white text looks on a background with the Yxy color 29.9987, 0.4842, 0.3777.

# 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

29.9987, 0.4842, 0.3777

### Protanopia

30.0920, 0.3892, 0.4210

### Deuteranopia

30.0308, 0.4298, 0.4208



## Tritanopia

29.9790, 0.4361, 0.3189

# Trichromacy



## Original Color

29.9987, 0.4842, 0.3777

## Protanomaly

29.4196, 0.4242, 0.4047

## Deuteranomaly

29.8417, 0.4506, 0.4047

## Tritanomaly

29.8869, 0.4554, 0.3409

# Monochromacy



## Original Color

29.9987, 0.4842, 0.3777

## Achromatopsia

29.1771, 0.3127, 0.3290

## Achromatomaly

28.5808, 0.3712, 0.3529

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.9987, 0.4842, 0.3777 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(222, 122, 78)` looks like.

```
.text, #text, p{  
    color:rgb(222, 122, 78)  
}
```

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(222, 122, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 122, 78) }
```

## Border

The CSS property to change the border of an element to Yxy 29.9987, 0.4842, 0.3777 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(222, 122, 78) }
```

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

```
.border{ border-color:rgb(222, 122, 78) }
```

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

Here you see how a box with a 4 pixel rgb(222, 122, 78) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 122, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 122, 78);  
box-shadow:4px 4px 4px 4px rgb(222, 122,  
78) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.9987, 0.4842, 0.3777 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 122, 78) }
```

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

```
.background{ background-color: rgb(222,  
122, 78) }
```

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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