

# Converting Colors

$Y_{xy}(16.8123, 0.4148, 0.4748)$

Have a look what the booklet for  
Yxy(16.8123, 0.4148, 0.4748)  
contains.

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**Color**

**Yxy(16.8115, 0.4148, 0.4748)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7B7421
RGB	123, 116, 33
RGB Percent	48%, 45%, 13%
CMY	0.5177, 0.5451, 0.8706
CMYK	0.00, 0.06, 0.73, 0.52
HSL	55°, 58%, 31%
HSV	55°, 73%, 48%
XYZ	14.6870, 16.8115, 3.9090
YIQ	108.6310, 30.8150, -24.3290

# Conversions

## Conversions Part 2

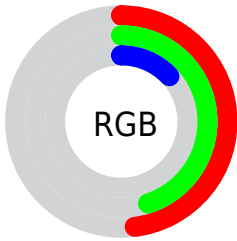
Format	Color
<a href="#">RYB</a>	<a href="#">41, 123, 33</a>
Decimal	<a href="#">8090657</a>
CIELab	<a href="#">48.02, -7.65, 44.40</a>
CIELCh	<a href="#">48, 45.058, 99.770</a>
Yxy	<a href="#">16.8115, 0.4148, 0.4748</a>
Android (android.graphics.Color)	<a href="#">4286280737 (0xFF7B7421)</a>
YUV	<a href="#">108.6310, -37.2861, 12.6016</a>
Hunter-Lab	<a href="#">41.0018, -7.8137, 23.0487</a>

# Details

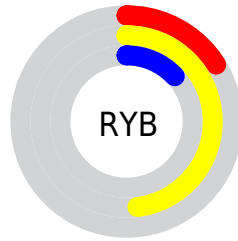
The Yxy color **16.8115, 0.4148, 0.4748** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **3.2689, 0.1814, 0.1196**, and the grayscale version is **15.2837, 0.3127, 0.3290**.

A 20% lighter version of the original color is **38.0948, 0.3955, 0.4442**, and **5.4738, 0.4261, 0.4999** is the 20% darker color. If you saturate the color by 10%, you get **16.5367, 0.4234, 0.4850**, and if you desaturate by 10%, it is **17.1154, 0.4039, 0.4608**.

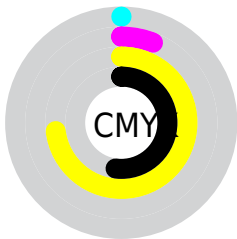
# Distribution



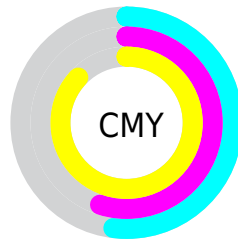
- Red (48%)
- Green (45%)
- Blue (13%)



- Red (16%)
- Yellow (48%)
- Blue (13%)



- Cyan (0%)
- Magenta (6%)
- Yellow (73%)
- Black (52%)




- Cyan (52%)
- Magenta (55%)
- Yellow (87%)


# Brightness & Saturation Gradients


These gradients show how the Yxy color 16.8115, 0.4148, 0.4748 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 16.8115, 0.4148, 0.4748 by changing the saturation by 10% instead.





 16.8115, 0.4148,  
0.4748


 16.8115, 0.4148,  
0.4748


 234.0838, 0.3604,  
0.3926


 10.1002, 0.4266,  
0.4961


 38.0014, 0.3954,  
0.4435


 5.4654, 0.4445,  
0.5291

 53.2488, 0.3879,  
0.4321

 2.5229, 0.4473,  
0.5527

 72.1103, 0.3814,  
0.4226

 0.8880, 0.4254,  
0.5746

 94.9703, 0.3760,  
0.4146

 0.0000, 0.0000,  
0.0000

 122.2133, 0.3713,  
0.4078

 154.2236, 0.3672,

0.4021

191.3856, 0.3636,  
0.3970

16.8115, 0.4148,  
0.4748

16.8115, 0.4148,  
0.4748

16.5367, 0.4234,  
0.4850

17.1154, 0.4039,  
0.4608

16.2854, 0.4295,  
0.4911

17.4484, 0.3911,  
0.4435

16.1204, 0.4331,  
0.4943

17.8136, 0.3770,  
0.4237

18.2128, 0.3620,  
0.4023

18.6479, 0.3468,  
0.3800

■ 19.1206, 0.3317,  
0.3576

■ 19.6323, 0.3172,  
0.3358

■ 20.1847, 0.3034,  
0.3148

■ 20.7789, 0.2905,  
0.2950

# Harmonies

## Analogous

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



16.8115, 0.4716, 0.4208



16.8115, 0.4148, 0.4748



16.8115, 0.3355, 0.4915

# Triad

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



16.8115, 0.4148, 0.4748



16.8115, 0.1664, 0.2618



16.8115, 0.3576, 0.2454

# Complementary

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



16.8115, 0.4148, 0.4748



3.2689, 0.1814, 0.1196

# 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.



16.8115, 0.2696, 0.2106



16.8115, 0.4148, 0.4748



16.8115, 0.1706, 0.2137

# Square

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



16.8115, 0.4148, 0.4748



16.8115, 0.1941, 0.3457



16.8115, 0.2049, 0.1986



16.8115, 0.4419, 0.2972



# Rectangle

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



16.8115, 0.4148, 0.4748



16.8115, 0.2804, 0.4655



16.8115, 0.2049, 0.1986



16.8115, 0.3269, 0.2315

# Sweetspot

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



16.8123, 0.4148, 0.4748



33.4516, 0.3458, 0.3786



5.4541, 0.5298, 0.3175



7.8369, 0.3492, 0.3834



63.8283, 0.3127, 0.3290



8.3535, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



16.8123, 0.4148, 0.4748



29.3000, 0.4279, 0.4897



16.2274, 0.3555, 0.5175



4.5833, 0.3257, 0.3486



16.6761, 0.4331, 0.4943



78.9802, 0.4339, 0.4937



# Inverse Universe

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



3.2689, 0.1814, 0.1196



3.6432, 0.1600, 0.0816



3.8376, 0.2253, 0.1295



3.9390, 0.2994, 0.3087



1.6898, 0.1521, 0.0676



7.5427, 0.1510, 0.0637



# Previews

## White Background



This preview shows how the Yxy color 16.8115, 0.4148, 0.4748 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

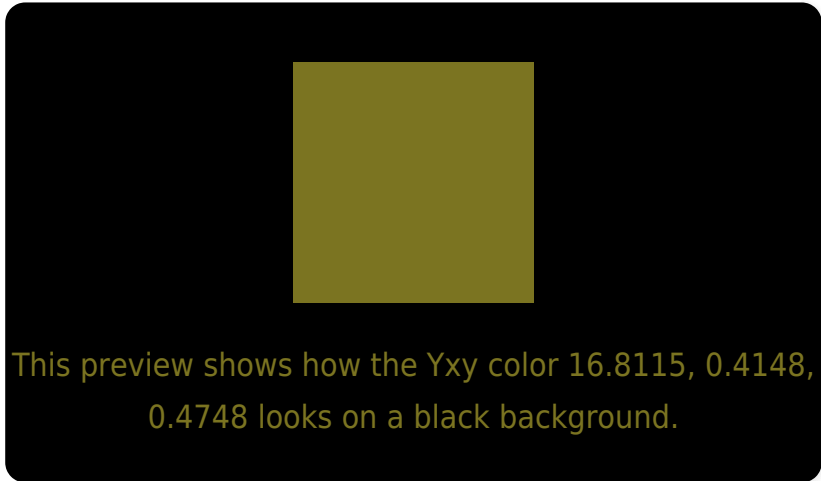
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

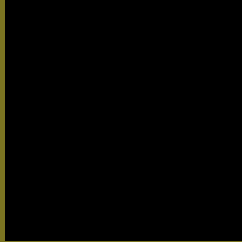
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 16.8115, 0.4148, 0.4748**

## **Background**



This preview shows how black text looks on a background with the Yxy color 16.8115, 0.4148, 0.4748.



This preview shows how white text looks on a background with the Yxy color 16.8115, 0.4148, 0.4748.

# 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

16.8115, 0.4148, 0.4748

### Protanopia

16.7336, 0.4245, 0.4675

### Deuteranopia

16.6921, 0.4512, 0.4428



## Tritanopia

16.7553, 0.3313, 0.3122

# Trichromacy



## Original Color

16.8115, 0.4148, 0.4748

## Protanomaly

16.8069, 0.4203, 0.4707

## Deuteranomaly

16.7245, 0.4382, 0.4541

## Tritanomaly

16.5528, 0.3678, 0.3778

# Monochromacy



## Original Color

16.8115, 0.4148, 0.4748

## Achromatopsia

15.2926, 0.3127, 0.3290

## Achromatomaly

15.7598, 0.3550, 0.3934

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 16.8115, 0.4148, 0.4748 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(123, 116, 33)` looks like.

```
.text, #text, p{  
    color:rgb(123, 116, 33)  
}
```

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(123, 116, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 116, 33) }
```

## Border

The CSS property to change the border of an element to Yxy 16.8115, 0.4148, 0.4748 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(123, 116, 33) }
```

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

```
.border{ border-color:rgb(123, 116, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 116, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 116, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 116, 33);  
box-shadow:4px 4px 4px 4px rgb(123, 116,  
33) }
```



# Background

The CSS property to change the background color of an element to Yxy 16.8115, 0.4148, 0.4748 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 116, 33) }
```

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

```
.background{ background-color: rgb(123,  
116, 33) }
```

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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