

# Converting Colors

$Y_{xy}(46.7058, 0.4150, 0.4071)$

Have a look what the booklet for  
Yxy(46.7058, 0.4150, 0.4071)  
contains.

<b>Yxy(46.7058, 0.4150, 0.4071)</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(46.7058, 0.4150, 0.4071)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DDAE6B
RGB	221, 174, 107
RGB Percent	87%, 68%, 42%
CMY	0.1333, 0.3177, 0.5805
CMYK	0.00, 0.21, 0.52, 0.13
HSL	35°, 63%, 64%
HSV	35°, 52%, 87%
XYZ	47.6122, 46.7058, 20.4101
YIQ	180.4150, 49.5190, -10.8730

# Conversions

## Conversions Part 2

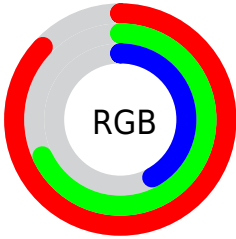
Format	Color
R <sub>YB</sub>	187, 221, 107
Decimal	14528107
CIE Lab	74.00, 9.16, 40.71
CIE LCh	74, 41.731, 77.319
Yxy	46.7058, 0.4150, 0.4071
Android (android.graphics.Color)	4292718187 (0xFFDDAE6B)
YUV	180.4150, -36.1936, 35.5930
Hunter-Lab	68.3416, 4.7592, 30.1323

# Details

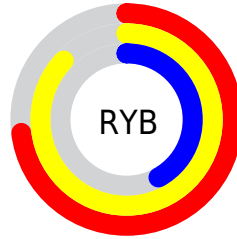
The Yxy color **46.7058, 0.4150, 0.4071** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **31.4579, 0.2272, 0.2330**, and the grayscale version is **46.0561, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.8367, 0.3778, 0.3989**, and **22.0010, 0.4409, 0.4254** is the 20% darker color. If you saturate the color by 10%, you get **42.8983, 0.4390, 0.4194**, and if you desaturate by 10%, it is **50.8756, 0.3917, 0.3927**.

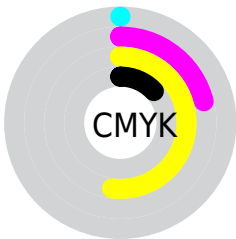
# Distribution



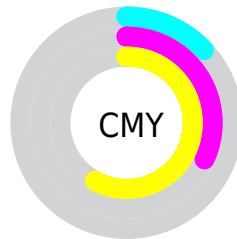
- Red (87%)
- Green (68%)
- Blue (42%)



- Red (73%)
- Yellow (87%)
- Blue (42%)



- Cyan (0%)
- Magenta (21%)
- Yellow (52%)
- Black (13%)



- Cyan (13%)
- Magenta (32%)
- Yellow (58%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.7058, 0.4150, 0.4071 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 46.7058, 0.4150, 0.4071 by changing the saturation by 10% instead.




 46.7058, 0.4150,  
0.4071


 46.7058, 0.4150,  
0.4071


373.6390, 0.3648,  
0.3706

 32.8031, 0.4267,  
0.4150


 85.2743, 0.3972,  
0.3946


 21.9757, 0.4412,  
0.4244


 110.7089, 0.3904,  
0.3897

 13.8390, 0.4591,  
0.4352


 140.7564, 0.3846,  
0.3854

 8.0088, 0.4814,  
0.4470

 175.8010, 0.3795,  
0.3817

 4.1006, 0.5233,  
0.4714

216.2271, 0.3752,  
0.3784

 1.7300, 0.5386,  
0.4614

262.4192, 0.3713,

 0.4430, 0.5927,

0.3755

0.4073

314.7617, 0.3679,  
0.3729

0.0000, 0.0000,  
0.0000

46.7058, 0.4150,  
0.4071

46.7058, 0.4150,  
0.4071

42.8983, 0.4390,  
0.4194

50.8756, 0.3917,  
0.3927

39.4324, 0.4625,  
0.4284

55.4138, 0.3697,  
0.3771

36.2948, 0.4843,  
0.4330

60.3346, 0.3496,  
0.3614

33.4679, 0.5032,  
0.4322

65.6492, 0.3314,  
0.3460

31.3107, 0.5166,  
0.4280

71.3685, 0.3151,  
0.3313

■ 77.5024, 0.3007,  
0.3175

■ 83.6222, 0.2918,  
0.3113

■ 89.0575, 0.2921,  
0.3207

■ 94.1151, 0.2923,  
0.3289

# Harmonies

## Analogous

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



46.7058, 0.4290, 0.3655



46.7058, 0.4150, 0.4071



46.7058, 0.3733, 0.4331

# Triad

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



46.7058, 0.4150, 0.4071



46.7058, 0.2245, 0.3270



46.7058, 0.2990, 0.2504

# Complementary

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



46.7058, 0.4150, 0.4071



31.4579, 0.2272, 0.2330

# 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.



46.7058, 0.2484, 0.2378



46.7058, 0.4150, 0.4071



46.7058, 0.2087, 0.2756

# Square

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



46.7058, 0.4150, 0.4071



46.7058, 0.2633, 0.3863



46.7058, 0.2171, 0.2454



46.7058, 0.3586, 0.2797



# Rectangle

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



46.7058, 0.4150, 0.4071



46.7058, 0.3368, 0.4338



46.7058, 0.2171, 0.2454



46.7058, 0.2805, 0.2441

# Sweetspot

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



46.7080, 0.4150, 0.4071



88.1238, 0.3376, 0.3514



28.2364, 0.3966, 0.2734



18.5269, 0.3414, 0.3546



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.



46.7080, 0.4150, 0.4071



58.8669, 0.4411, 0.4204



66.7091, 0.3801, 0.4566



14.3169, 0.3277, 0.3427



18.4138, 0.5147, 0.4295



1.3612, 0.4950, 0.4452



# Inverse Universe

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



31.4579, 0.2272, 0.2330



35.6274, 0.2098, 0.2082



19.4795, 0.2207, 0.1681



13.4947, 0.2982, 0.3149



7.6025, 0.1697, 0.1307



0.6597, 0.1786, 0.1630



# Previews

## White Background



This preview shows how the Yxy color 46.7058, 0.4150, 0.4071 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

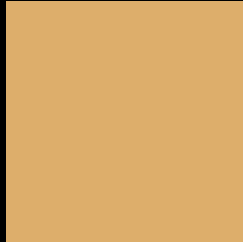
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.7058, 0.4150, 0.4071 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

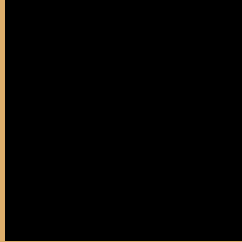
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.7058, 0.4150, 0.4071**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.7058, 0.4150, 0.4071.



This preview shows how white text looks on a background with the Yxy color 46.7058, 0.4150, 0.4071.

# 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

46.7058, 0.4150, 0.4071

### Protanopia

46.7238, 0.3871, 0.4197

### Deuteranopia

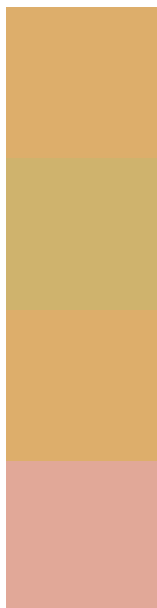
46.7058, 0.4150, 0.4071



## Tritanopia

46.4555, 0.3595, 0.3141

# Trichromacy



## Original Color

46.7058, 0.4150, 0.4071

## Protanomaly

46.6097, 0.3971, 0.4149

## Deuteranomaly

46.7058, 0.4150, 0.4071

## Tritanomaly

46.2798, 0.3815, 0.3481

# Monochromacy



## Original Color

46.7058, 0.4150, 0.4071

## Achromatopsia

45.6411, 0.3127, 0.3290

## Achromatomaly

45.7428, 0.3491, 0.3614

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.7058, 0.4150, 0.4071 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(221, 174, 107)` looks like.

```
.text, #text, p{  
    color:rgb(221, 174, 107)  
}
```

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(221, 174, 107) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 174, 107) }
```

## Border

The CSS property to change the border of an element to Yxy 46.7058, 0.4150, 0.4071 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(221, 174, 107) }
```

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

```
.border{ border-color:rgb(221, 174, 107) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 174, 107)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 174, 107); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 174, 107);  
box-shadow:4px 4px 4px 4px rgb(221, 174,  
107) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.7058, 0.4150, 0.4071 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 174, 107) }
```

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

```
.background{ background-color: rgb(221,  
174, 107) }
```

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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