

# Converting Colors

$Y_{xy}(46.4228, 0.4611, 0.4721)$

Have a look what the booklet for  
Yxy(46.4228, 0.4611, 0.4721)  
contains.

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# Color

**Yxy(46.4228, 0.4611, 0.4721)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DDB000
RGB	221, 176, 0
RGB Percent	87%, 69%, 0%
CMY	0.1334, 0.3098, 1.0000
CMYK	0.00, 0.20, 1.00, 0.13
HSL	48°, 100%, 43%
HSV	48°, 100%, 87%
XYZ	45.3411, 46.4228, 6.5686
YIQ	169.3910, 83.3160, -45.1960

# Conversions

## Conversions Part 2

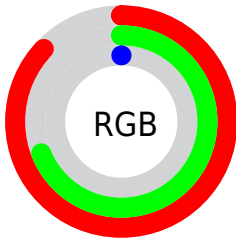
Format	Color
<a href="#">RYB</a>	57, 221, 0
Decimal	14528512
CIELab	73.82, 3.53, 76.42
CIELCh	74, 76.502, 87.356
Yxy	46.4228, 0.4611, 0.4721
Android (android.graphics.Color)	4292718592 (0xFFDDB000)
YUV	169.3910, -83.5098, 45.2611
Hunter-Lab	68.1343, -0.4491, 41.9780

# Details

The Yxy color **46.4228, 0.4611, 0.4721** is a dark color, and the websafe version is hex **FFCC33**. The color can be described as middle washed orange. A complement of this color would be **7.0948, 0.1552, 0.0787**, and the grayscale version is **40.2727, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.9910, 0.4208, 0.4665**, and **21.9924, 0.4662, 0.4680** is the 20% darker color. If you saturate the color by 10%, you get **46.4252, 0.4611, 0.4721**, and if you desaturate by 10%, it is **48.2768, 0.4534, 0.4719**.

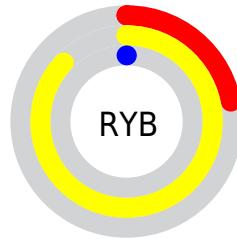
# Distribution



Red (87%)

Green (69%)

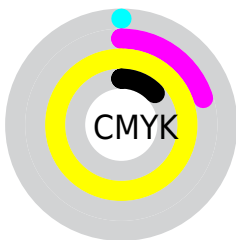
Blue (0%)



Red (22%)

Yellow (87%)

Blue (0%)

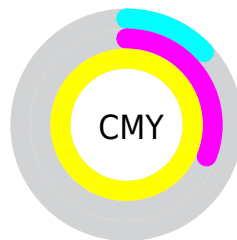


Cyan (0%)

Magenta (20%)

Yellow (100%)

Black (13%)



Cyan (13%)

Magenta (31%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.4228, 0.4611, 0.4721 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 46.4228, 0.4611, 0.4721 by changing the saturation by 10% instead.




 46.4228, 0.4611,  
0.4721


 46.4228, 0.4611,  
0.4721


372.5058, 0.3966,  
0.4116


 32.5796, 0.4721,  
0.4817


 84.8514, 0.4412,  
0.4540


 21.8046, 0.4831,  
0.4908


 110.2056, 0.4326,  
0.4459

 13.7134, 0.4975,  
0.5025

 140.1655, 0.4249,  
0.4387

 7.9216, 0.4995,  
0.5005

 175.1157, 0.4180,  
0.4321

 4.0448, 0.5026,  
0.4974

 215.4404, 0.4118,  
0.4262

 1.6987, 0.5076,  
0.4924

 261.5240, 0.4062,

 0.4228, 0.5358,

0.4209

0.4642

313.7511, 0.4012,  
0.4160

■ 0.0000, 0.0000,  
0.0000

■ 46.4228, 0.4611,  
0.4721

■ 46.4228, 0.4611,  
0.4721

■ 46.4252, 0.4611,  
0.4721

■ 48.2768, 0.4534,  
0.4719

■ 50.2541, 0.4431,  
0.4676

■ 52.3795, 0.4300,  
0.4586

■ 54.6656, 0.4146,  
0.4454

■ 57.1236, 0.3976,  
0.4288

■ 59.7628, 0.3798,  
0.4099

■ 62.5921, 0.3620,  
0.3897

■ 65.6192, 0.3446,  
0.3690

■ 68.8516, 0.3281,  
0.3486

# Harmonies

## Analogous

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



46.4228, 0.5142, 0.3992



46.4228, 0.4611, 0.4721



46.4228, 0.3746, 0.5244

# Triad

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



46.4228, 0.4611, 0.4721



46.4228, 0.1503, 0.2822



46.4228, 0.3195, 0.2119

# Complementary

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



46.4228, 0.4611, 0.4721



7.0948, 0.1552, 0.0787

# 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.



46.4228, 0.2253, 0.1826



46.4228, 0.4611, 0.4721



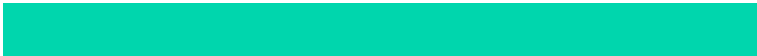
46.4228, 0.1421, 0.2097

# Square

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



46.4228, 0.4611, 0.4721



46.4228, 0.1960, 0.3988



46.4228, 0.1666, 0.1801



46.4228, 0.4298, 0.2634



# Rectangle

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



46.4228, 0.4611, 0.4721



46.4228, 0.3100, 0.5225



46.4228, 0.1666, 0.1801



46.4228, 0.2847, 0.1993

# Sweetspot

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



46.4252, 0.4611, 0.4721



86.4798, 0.3624, 0.3902



15.5826, 0.6055, 0.3109



18.1478, 0.3699, 0.3989



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.



46.4252, 0.4611, 0.4721



64.0197, 0.4615, 0.4718



59.0134, 0.3695, 0.5448



14.7903, 0.3272, 0.3475



27.1381, 0.4603, 0.4727



1.8743, 0.4524, 0.4790



# Inverse Universe

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



7.0948, 0.1552, 0.0787



9.6670, 0.1549, 0.0777



6.2639, 0.1672, 0.0695



13.0443, 0.2981, 0.3098



4.2519, 0.1558, 0.0809



0.3993, 0.1641, 0.1105



# Previews

## White Background



This preview shows how the Yxy color 46.4228, 0.4611, 0.4721 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 46.4228, 0.4611, 0.4721 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 46.4228, 0.4611, 0.4721**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.4228, 0.4611, 0.4721.



This preview shows how white text looks on a background with the Yxy color 46.4228, 0.4611, 0.4721.

# 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

46.4228, 0.4611, 0.4721

### Protanopia

46.4569, 0.4396, 0.4867

### Deuteranopia

46.3597, 0.4714, 0.4604



## Tritanopia

46.5085, 0.3644, 0.3154

# Trichromacy



## Original Color

46.4228, 0.4611, 0.4721

## Protanomaly

46.5045, 0.4474, 0.4814

## Deuteranomaly

46.2378, 0.4684, 0.4641

## Tritanomaly

45.5060, 0.4202, 0.3934

# Monochromacy



## Original Color

46.4228, 0.4611, 0.4721

## Achromatopsia

39.6755, 0.3127, 0.3290

## Achromatomaly

41.2791, 0.3834, 0.4144

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.4228, 0.4611, 0.4721 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, 176, 0)` looks like.

```
.text, #text, p{  
    color:rgb(221, 176, 0)  
}
```

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, 176, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 176, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 46.4228, 0.4611, 0.4721 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, 176, 0) }
```

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

```
.border{ border-color:rgb(221, 176, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 176, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 176, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 176, 0);  
box-shadow:4px 4px 4px 4px rgb(221, 176,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.4228, 0.4611, 0.4721 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 176, 0) }
```

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

```
.background{ background-color: rgb(221,  
176, 0) }
```

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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