

# Converting Colors

$Y_{xy}(45.5791, 0.4464, 0.4419)$

Have a look what the booklet for  
Yxy(45.5791, 0.4464, 0.4419)  
contains.

<b>Yxy(45.4280, 0.4461, 0.4419)</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(45.4280, 0.4461, 0.4419)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DEAC42
RGB	222, 172, 66
RGB Percent	87%, 67%, 26%
CMY	0.1294, 0.3255, 0.7410
CMYK	0.00, 0.23, 0.70, 0.13
HSL	41°, 70%, 56%
HSV	41°, 70%, 87%
XYZ	45.8598, 45.4280, 11.5138
YIQ	174.8660, 63.8260, -22.3660

# Conversions

## Conversions Part 2

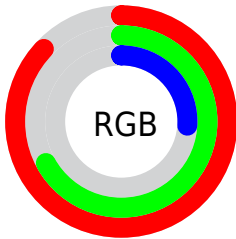
<b>Format</b>	<b>Color</b>
<b>RYB</b>	140, 222, 66
Decimal	14593090
CIELab	73.17, 7.80, 59.17
CIELCh	73, 59.682, 82.492
Yxy	45.4280, 0.4461, 0.4419
Android (android.graphics.Color)	4292783170 (0xFFDEAC42)
YUV	174.8660, -53.6709, 41.3365
Hunter-Lab	67.4003, 3.5025, 37.0519

# Details

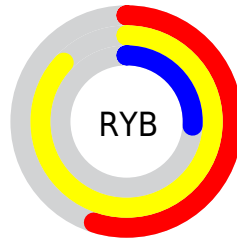
The Yxy color **45.4280, 0.4461, 0.4419** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **18.9339, 0.1932, 0.1687**, and the grayscale version is **43.0588, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.5301, 0.4043, 0.4351**, and **21.2195, 0.4745, 0.4614** is the 20% darker color. If you saturate the color by 10%, you get **42.5803, 0.4640, 0.4489**, and if you desaturate by 10%, it is **48.5268, 0.4263, 0.4306**.

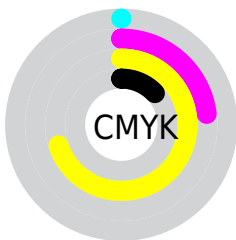
# Distribution



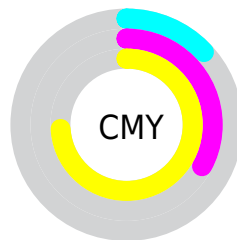
- Red (87%)
- Green (67%)
- Blue (26%)



- Red (55%)
- Yellow (87%)
- Blue (26%)



- Cyan (0%)
- Magenta (23%)
- Yellow (70%)
- Black (13%)




- Cyan (13%)
- Magenta (33%)
- Yellow (74%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.4280, 0.4461, 0.4419 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 45.4280, 0.4461, 0.4419 by changing the saturation by 10% instead.





 45.4280, 0.4461,  
0.4419

 45.4280, 0.4461,  
0.4419


368.5042, 0.3834,  
0.3914


 31.7947, 0.4592,  
0.4514


 83.3623, 0.4250,  
0.4256


 21.2047, 0.4741,  
0.4616


 108.4321, 0.4165,  
0.4189

 13.2737, 0.4905,  
0.4715


 138.0828, 0.4091,  
0.4129

 7.6173, 0.5144,  
0.4856

 172.6988, 0.4027,  
0.4076

 3.8511, 0.5212,  
0.4788

 212.6646, 0.3970,  
0.4028

 1.5906, 0.5324,  
0.4676

258.3645, 0.3919,

 0.3513, 0.5988,

0.3986

0.4012

310.1829, 0.3874,  
0.3948

■ 0.0000, 0.0000,  
0.0000

■ 45.4280, 0.4461,  
0.4419

■ 45.4280, 0.4461,  
0.4419

■ 42.5803, 0.4640,  
0.4489

■ 48.5268, 0.4263,  
0.4306

■ 39.9622, 0.4790,  
0.4509

■ 51.8828, 0.4056,  
0.4161

■ 37.6080, 0.4908,  
0.4485

■ 55.5094, 0.3849,  
0.3995

■ 59.4171, 0.3649,  
0.3818

■ 63.6154, 0.3461,  
0.3638

■ 68.1133, 0.3288,  
0.3462

■ 72.9192, 0.3131,  
0.3294

■ 78.0412, 0.2989,  
0.3136

■ 82.7684, 0.2924,  
0.3095

# Harmonies

## Analogous

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



45.4280, 0.4780, 0.3835



45.4280, 0.4461, 0.4419



45.4280, 0.3806, 0.4812

# Triad

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



45.4280, 0.4461, 0.4419



45.4280, 0.1840, 0.3080



45.4280, 0.3058, 0.2270

# Complementary

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



45.4280, 0.4461, 0.4419



18.9339, 0.1932, 0.1687

# 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.



45.4280, 0.2325, 0.2057



45.4280, 0.4461, 0.4419



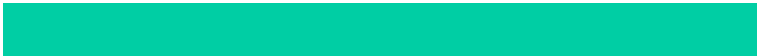
45.4280, 0.1704, 0.2414

# Square

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



45.4280, 0.4461, 0.4419



45.4280, 0.2296, 0.3989



45.4280, 0.1868, 0.2090



45.4280, 0.3922, 0.2686



# Rectangle

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



45.4280, 0.4461, 0.4419



45.4280, 0.3281, 0.4813



45.4280, 0.1868, 0.2090



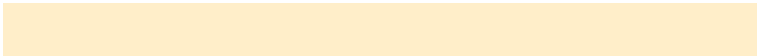
45.4280, 0.2788, 0.2174

# Sweetspot

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



45.4302, 0.4461, 0.4419



86.5511, 0.3478, 0.3655



20.7402, 0.4689, 0.2752



18.1767, 0.3529, 0.3705



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.



45.4302, 0.4461, 0.4419



56.6794, 0.4710, 0.4504



64.3687, 0.3860, 0.4982



15.2499, 0.3275, 0.3449



22.5491, 0.4895, 0.4495



1.7226, 0.4760, 0.4602



# Inverse Universe

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



18.9339, 0.1932, 0.1687



18.7233, 0.1747, 0.1336



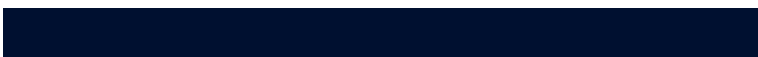
11.4541, 0.1930, 0.1131



13.9570, 0.2981, 0.3126



5.9999, 0.1626, 0.1053



0.5740, 0.1712, 0.1362



# Previews

## White Background



This preview shows how the Yxy color 45.4280, 0.4461, 0.4419 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

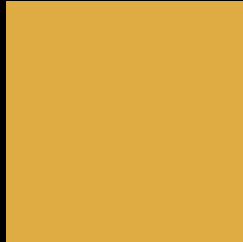
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.4280, 0.4461, 0.4419 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 45.4280, 0.4461, 0.4419**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.4280, 0.4461, 0.4419.



This preview shows how white text looks on a background with the Yxy color 45.4280, 0.4461, 0.4419.

# 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

45.4280, 0.4461, 0.4419

### Protanopia

45.4774, 0.4187, 0.4594

### Deuteranopia

45.3665, 0.4488, 0.4399



## Tritanopia

45.3299, 0.3682, 0.3153

# Trichromacy



## Original Color

45.4280, 0.4461, 0.4419

## Protanomaly

45.4048, 0.4293, 0.4530

## Deuteranomaly

45.2071, 0.4479, 0.4404

## Tritanomaly

44.9624, 0.4018, 0.3655

# Monochromacy



## Original Color

45.4280, 0.4461, 0.4419

## Achromatopsia

42.8690, 0.3127, 0.3290

## Achromatomaly

43.2278, 0.3632, 0.3806

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.4280, 0.4461, 0.4419 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, 172, 66)` looks like.

```
.text, #text, p{  
    color:rgb(222, 172, 66)  
}
```

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, 172, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 172, 66) }
```

## Border

The CSS property to change the border of an element to Yxy 45.4280, 0.4461, 0.4419 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, 172, 66) }
```

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

```
.border{ border-color:rgb(222, 172, 66) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 172, 66)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 172, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 172, 66);  
box-shadow:4px 4px 4px 4px rgb(222, 172,  
66) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.4280, 0.4461, 0.4419 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 172, 66) }
```

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

```
.background{ background-color: rgb(222,  
172, 66) }
```

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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