

# Converting Colors

$Y_{xy}(47.5896, 0.4473, 0.4451)$

Have a look what the booklet for  
Yxy(47.5896, 0.4473, 0.4451)  
contains.

<b>Yxy(47.5896, 0.4472, 0.4451)</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(47.5896, 0.4472, 0.4451)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E2B040
RGB	226, 176, 64
RGB Percent	89%, 69%, 25%
CMY	0.1137, 0.3098, 0.7490
CMYK	0.00, 0.22, 0.72, 0.11
HSL	41°, 74%, 57%
HSV	41°, 72%, 89%
XYZ	47.8141, 47.5896, 11.5152
YIQ	178.1820, 65.7520, -24.2320

# Conversions

## Conversions Part 2

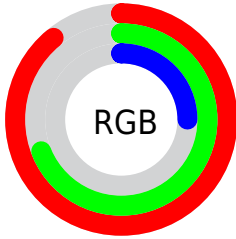
Format	Color
<a href="#">RYB</a>	<a href="#">136, 226, 64</a>
Decimal	<a href="#">14856256</a>
CIELab	<a href="#">74.57, 7.29, 61.57</a>
CIELCh	<a href="#">75, 61.997, 83.247</a>
Yxy	<a href="#">47.5896, 0.4472, 0.4451</a>
Android (android.graphics.Color)	<a href="#">4293046336</a> (0xFFE2B040)
YUV	<a href="#">178.1820, -56.2917, 41.9364</a>
Hunter-Lab	<a href="#">68.9852, 2.9955, 38.3928</a>

# Details

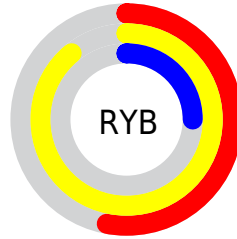
The Yxy color **47.5896, 0.4472, 0.4451** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **18.6124, 0.1903, 0.1620**, and the grayscale version is **44.9012, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.7198, 0.4027, 0.4393**, and **22.5223, 0.4719, 0.4635** is the 20% darker color. If you saturate the color by 10%, you get **44.7196, 0.4642, 0.4516**, and if you desaturate by 10%, it is **50.7090, 0.4281, 0.4342**.

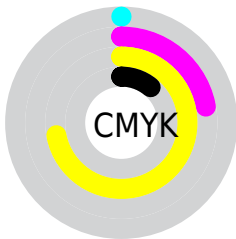
# Distribution



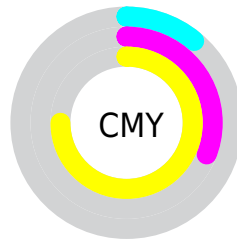
- Red (89%)
- Green (69%)
- Blue (25%)



- Red (53%)
- Yellow (89%)
- Blue (25%)



- Cyan (0%)
- Magenta (22%)
- Yellow (72%)
- Black (11%)




- Cyan (11%)
- Magenta (31%)
- Yellow (75%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.5896, 0.4472, 0.4451 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 47.5896, 0.4472, 0.4451 by changing the saturation by 10% instead.





 47.5896, 0.4472,  
0.4451

 47.5896, 0.4472,  
0.4451


377.1631, 0.3849,  
0.3938


 33.5020, 0.4599,  
0.4546


 86.5930, 0.4264,  
0.4287

 22.5113, 0.4743,  
0.4648


 112.2777, 0.4180,  
0.4218


 14.2331, 0.4898,  
0.4745


 142.5968, 0.4107,  
0.4157

 8.2829, 0.5120,  
0.4880

 177.9347, 0.4042,  
0.4103

 4.2765, 0.5179,  
0.4821

 218.6760, 0.3985,  
0.4055

 1.8294, 0.5277,  
0.4723

265.2048, 0.3935,

 0.5054, 0.5657,

0.4012

0.4343

317.9057, 0.3889,  
0.3973

0.0000, 0.0000,  
0.0000

47.5896, 0.4472,  
0.4451

47.5896, 0.4472,  
0.4451

44.7196, 0.4642,  
0.4516

50.7090, 0.4281,  
0.4342

42.0763, 0.4782,  
0.4530

54.0840, 0.4079,  
0.4199

40.0323, 0.4877,  
0.4510

57.7288, 0.3874,  
0.4032

61.6540, 0.3675,  
0.3853

65.8695, 0.3486,  
0.3671

■ 70.3846, 0.3312,  
0.3491

■ 75.2080, 0.3152,  
0.3318

■ 80.3478, 0.3009,  
0.3155

■ 84.9876, 0.2949,  
0.3125

# Harmonies

## Analogous

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



47.5896, 0.4813, 0.3856



47.5896, 0.4472, 0.4451



47.5896, 0.3796, 0.4850

# Triad

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



47.5896, 0.4472, 0.4451



47.5896, 0.1807, 0.3051



47.5896, 0.3077, 0.2260

# Complementary

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



47.5896, 0.4472, 0.4451



18.6124, 0.1903, 0.1620

# 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.



47.5896, 0.2324, 0.2037



47.5896, 0.4472, 0.4451



47.5896, 0.1678, 0.2382

# Square

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



47.5896, 0.4472, 0.4451



47.5896, 0.2262, 0.3982



47.5896, 0.1852, 0.2062



47.5896, 0.3961, 0.2686



# Rectangle

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



47.5896, 0.4472, 0.4451



47.5896, 0.3260, 0.4846



47.5896, 0.1852, 0.2062



47.5896, 0.2799, 0.2160

# Sweetspot

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



47.5919, 0.4472, 0.4451



86.3468, 0.3495, 0.3679



21.0794, 0.4787, 0.2779



18.1507, 0.3545, 0.3729



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.



47.5919, 0.4472, 0.4451



57.0657, 0.4714, 0.4529



66.5369, 0.3846, 0.5021



15.2785, 0.3275, 0.3451



23.0589, 0.4864, 0.4520



1.7550, 0.4735, 0.4622



# Inverse Universe

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



18.6124, 0.1903, 0.1620



17.3643, 0.1717, 0.1261



11.5210, 0.1923, 0.1100



13.9298, 0.2981, 0.3123



5.7984, 0.1618, 0.1024



0.5574, 0.1703, 0.1332



# Previews

## White Background



This preview shows how the Yxy color 47.5896, 0.4472, 0.4451 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 47.5896, 0.4472, 0.4451 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 47.5896, 0.4472, 0.4451**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.5896, 0.4472, 0.4451.



This preview shows how white text looks on a background with the Yxy color 47.5896, 0.4472, 0.4451.

# 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

47.5896, 0.4472, 0.4451

### Protanopia

47.6535, 0.4203, 0.4625

### Deuteranopia

47.6881, 0.4507, 0.4426



## Tritanopia

47.5770, 0.3670, 0.3156

# Trichromacy



## Original Color

47.5896, 0.4472, 0.4451

## Protanomaly

47.5755, 0.4306, 0.4561

## Deuteranomaly

47.5241, 0.4499, 0.4431

## Tritanomaly

47.1424, 0.4018, 0.3671

# Monochromacy



## Original Color

47.5896, 0.4472, 0.4451

## Achromatopsia

44.5201, 0.3127, 0.3290

## Achromatomaly

44.8525, 0.3633, 0.3812

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.5896, 0.4472, 0.4451 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(226, 176, 64)` looks like.

```
.text, #text, p{  
    color:rgb(226, 176, 64)  
}
```

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(226, 176, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 176, 64) }
```

## Border

The CSS property to change the border of an element to Yxy 47.5896, 0.4472, 0.4451 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(226, 176, 64) }
```

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

```
.border{ border-color:rgb(226, 176, 64) }
```

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

Here you see how a box with a 4 pixel rgb(226, 176, 64) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 176, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 176, 64);  
box-shadow:4px 4px 4px 4px rgb(226, 176,  
64) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.5896, 0.4472, 0.4451 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 176, 64) }
```

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

```
.background{ background-color: rgb(226,  
176, 64) }
```

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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