

# Converting Colors

$Y_{xy}(40.7156, 0.4523, 0.4129)$

Have a look what the booklet for  
Yxy(40.7156, 0.4523, 0.4129)  
contains.

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# Color

**Yxy(40.7156, 0.4523, 0.4129)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E19D51
RGB	225, 157, 81
RGB Percent	88%, 62%, 32%
CMY	0.1175, 0.3843, 0.6823
CMYK	0.00, 0.30, 0.64, 0.12
HSL	32°, 71%, 60%
HSV	32°, 64%, 88%
XYZ	44.6008, 40.7156, 13.2925
YIQ	168.6680, 64.9240, -9.2200

# Conversions

## Conversions Part 2

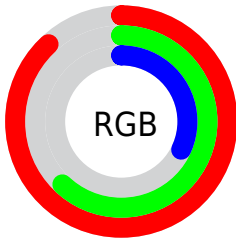
Format	Color
R <sub>Y</sub> B	210, 225, 81
Decimal	14785873
CIE Lab	69.98, 17.95, 49.02
CIE LCh	70, 52.204, 69.883
Yxy	40.7156, 0.4523, 0.4129
Android (android.graphics.Color)	4292975953 (0xFFE19D51)
YUV	168.6680, -43.2203, 49.4032
Hunter-Lab	63.8088, 13.1018, 32.3150

# Details

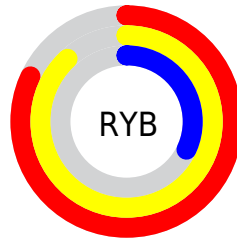
The Yxy color **40.7156, 0.4523, 0.4129** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **28.6950, 0.2105, 0.2178**, and the grayscale version is **39.6986, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.0404, 0.4033, 0.4093**, and **18.5088, 0.4875, 0.4273** is the 20% darker color. If you saturate the color by 10%, you get **36.9923, 0.4784, 0.4196**, and if you desaturate by 10%, it is **44.8678, 0.4259, 0.4026**.

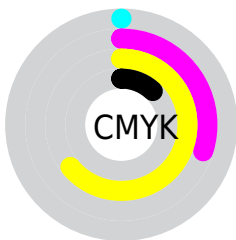
# Distribution



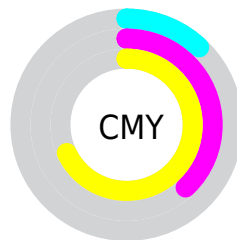
- Red (88%)
- Green (62%)
- Blue (32%)



- Red (82%)
- Yellow (88%)
- Blue (32%)



- Cyan (0%)
- Magenta (30%)
- Yellow (64%)
- Black (12%)



- Cyan (12%)
- Magenta (38%)
- Yellow (68%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.7156, 0.4523, 0.4129 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 40.7156, 0.4523, 0.4129 by changing the saturation by 10% instead.





 40.7156, 0.4523,  
0.4129


 40.7156, 0.4523,  
0.4129


349.1306, 0.3831,  
0.3758

 28.0969, 0.4682,  
0.4198


 76.2520, 0.4279,  
0.4010


 18.3987, 0.4875,  
0.4268


 99.9385, 0.4185,  
0.3961


 11.2366, 0.5106,  
0.4332


 128.0830, 0.4104,  
0.3916

 6.2262, 0.5449,  
0.4419

 161.0700, 0.4034,  
0.3877

 2.9831, 0.5690,  
0.4310

 199.2839, 0.3974,  
0.3842

 1.1229, 0.5976,  
0.4024

243.1090, 0.3920,

 0.0000, 1.0000,

0.3811

0.0000

292.9298, 0.3873,  
0.3783

0.0000, 0.0000,  
0.0000

40.7156, 0.4523,  
0.4129

40.7156, 0.4523,  
0.4129

36.9923, 0.4784,  
0.4196

44.8678, 0.4259,  
0.4026

33.6724, 0.5026,  
0.4216

49.4603, 0.4004,  
0.3899

30.7354, 0.5234,  
0.4181

54.5116, 0.3767,  
0.3759

29.1412, 0.5344,  
0.4139

60.0367, 0.3551,  
0.3617

66.0499, 0.3359,  
0.3476

■ 72.5650, 0.3189,  
0.3342

■ 79.5948, 0.3040,  
0.3215

■ 86.7575, 0.2944,  
0.3158

■ 93.2719, 0.2946,  
0.3266

# Harmonies

## Analogous

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



40.7156, 0.4621, 0.3573



40.7156, 0.4523, 0.4129



40.7156, 0.4039, 0.4574

# Triad

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



40.7156, 0.4523, 0.4129



40.7156, 0.2090, 0.3442



40.7156, 0.2760, 0.2240

# Complementary

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



40.7156, 0.4523, 0.4129



28.6950, 0.2105, 0.2178

# 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.



40.7156, 0.2181, 0.2136



40.7156, 0.4523, 0.4129



40.7156, 0.1833, 0.2717

# Square

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



40.7156, 0.4523, 0.4129



40.7156, 0.2631, 0.4237



40.7156, 0.1868, 0.2281



40.7156, 0.3525, 0.2555



# Rectangle

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



40.7156, 0.4523, 0.4129



40.7156, 0.3589, 0.4697



40.7156, 0.1868, 0.2281



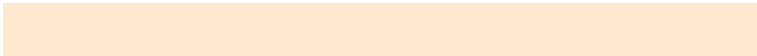
40.7156, 0.2540, 0.2180

# Sweetspot

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



40.7176, 0.4523, 0.4129



83.5195, 0.3455, 0.3547



24.1194, 0.4148, 0.2529



17.3908, 0.3511, 0.3588



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.



40.7176, 0.4523, 0.4129



47.4990, 0.4873, 0.4209



70.0906, 0.3994, 0.4767



14.8916, 0.3279, 0.3414



17.0234, 0.5321, 0.4157



1.3589, 0.5101, 0.4332



# Inverse Universe

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



28.6950, 0.2105, 0.2178



30.4031, 0.1933, 0.1898



13.1802, 0.1899, 0.1243



14.3058, 0.2981, 0.3163



9.3373, 0.1748, 0.1493



0.8255, 0.1828, 0.1782



# Previews

## White Background



This preview shows how the Yxy color 40.7156, 0.4523, 0.4129 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 40.7156, 0.4523, 0.4129 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

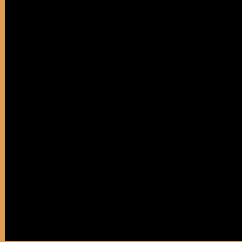
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 40.7156, 0.4523, 0.4129**

## Background



This preview shows how black text looks on a background with the Yxy color 40.7156, 0.4523, 0.4129.



This preview shows how white text looks on a background with the Yxy color 40.7156, 0.4523, 0.4129.

# 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

40.7156, 0.4523, 0.4129

### Protanopia

40.9958, 0.4017, 0.4401

### Deuteranopia

40.7559, 0.4363, 0.4268



## Tritanopia

40.6719, 0.3876, 0.3165

# Trichromacy



**Original Color**

40.7156, 0.4523, 0.4129

**Protanomaly**

40.8341, 0.4197, 0.4308

**Deuteranomaly**

40.8206, 0.4420, 0.4215

**Tritanomaly**

40.4299, 0.4140, 0.3525

# Monochromacy



**Original Color**

40.7156, 0.4523, 0.4129

**Achromatopsia**

39.6755, 0.3127, 0.3290

**Achromatomaly**

39.5352, 0.3616, 0.3670

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.7156, 0.4523, 0.4129 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(225, 157, 81)` looks like.

```
.text, #text, p{  
    color:rgb(225, 157, 81)  
}
```

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(225, 157, 81) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(225, 157, 81) }
```

## Border

The CSS property to change the border of an element to Yxy 40.7156, 0.4523, 0.4129 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(225, 157, 81) }
```

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

```
.border{ border-color:rgb(225, 157, 81) }
```

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

Here you see how a box with a 4 pixel `rgb(225, 157, 81)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(225, 157, 81); -webkit-box-  
shadow:4px 4px 4px 4px rgb(225, 157, 81);  
box-shadow:4px 4px 4px 4px rgb(225, 157,  
81) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.7156, 0.4523, 0.4129 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(225, 157, 81) }
```

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

```
.background{ background-color: rgb(225,  
157, 81) }
```

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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