

Converting Colors

$Y_{xy}(13.1003, 0.4346, 0.4691)$

Have a look what the booklet for
Yxy(13.1003, 0.4346, 0.4691)
contains.

Yxy(13.1511, 0.4337, 0.4696)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(13.1511, 0.4337, 0.4696)

Conversions

Conversions Part 1

Format	Color
Hex	756517
RGB	117, 101, 23
RGB Percent	46%, 40%, 9%
CMY	0.5411, 0.6039, 0.9099
CMYK	0.00, 0.14, 0.80, 0.54
HSL	50°, 67%, 27%
HSV	50°, 80%, 46%
XYZ	12.1457, 13.1511, 2.7081
YIQ	96.8920, 34.5740, -20.8660

Conversions

Conversions Part 2

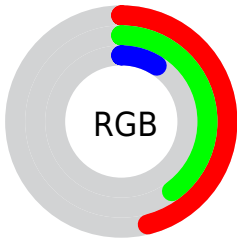
Format	Color
R_YB	42, 117, 23
Decimal	7693591
CIE _{Lab}	42.99, -2.42, 43.33
CIE _{LCh}	43, 43.395, 93.201
Yxy	13.1511, 0.4337, 0.4696
Android (android.graphics.Color)	4285883671 (0xFF756517)
YUV	96.8920, -36.4288, 17.6347
Hunter-Lab	36.2644, -3.6794, 20.9576

Details

The Yxy color **13.1511, 0.4337, 0.4696** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **2.9179, 0.1760, 0.1197**, and the grayscale version is **12.0112, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.7082, 0.4088, 0.4402**, and **3.8562, 0.4455, 0.4845** is the 20% darker color. If you saturate the color by 10%, you get **12.7324, 0.4434, 0.4759**, and if you desaturate by 10%, it is **13.6012, 0.4215, 0.4592**.

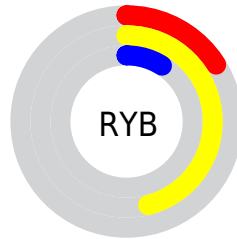
Distribution



 Red (46%)

 Green (40%)

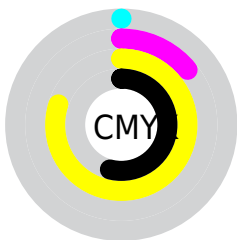
 Blue (9%)



 Red (16%)

 Yellow (46%)

 Blue (9%)

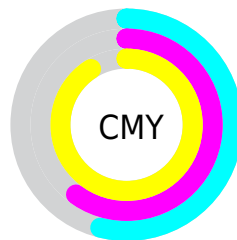



 Cyan (0%)

 Magenta (14%)

 Yellow (80%)

 Black (54%)



 Cyan (54%)


 Magenta (60%)


 Yellow (91%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 13.1511, 0.4337, 0.4696 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 13.1511, 0.4337, 0.4696 by changing the saturation by 10% instead.


 13.1511, 0.4337,
0.4696


 13.1511, 0.4337,
0.4696

211.8838, 0.3663,
0.3898

 7.5327, 0.4492,
0.4893


 31.5750, 0.4088,
0.4395


 3.7974, 0.4764,
0.5236

 45.1492, 0.3994,
0.4283


 1.5609, 0.4726,
0.5274

 62.1442, 0.3915,
0.4190

 0.3310, 0.4356,
0.5644

 82.9443, 0.3848,
0.4112


 0.0000, 0.0000,
0.0000


 107.9339, 0.3792,
0.4046

 137.4974, 0.3743,

0.3990

 172.0193, 0.3700,
0.3941


 13.1511, 0.4337,
0.4696


 13.1511, 0.4337,
0.4696


 12.7324, 0.4434,
0.4759

 13.6012, 0.4215,
0.4592

 12.3476, 0.4515,
0.4797

 14.0832, 0.4074,
0.4452

 14.6000, 0.3919,
0.4283

 15.1535, 0.3757,
0.4095

 15.7454, 0.3593,
0.3895

■ 16.3773, 0.3432,
0.3692

■ 17.0507, 0.3277,
0.3491

■ 17.7671, 0.3132,
0.3297

■ 18.5277, 0.2997,
0.3112

Harmonies

Analogous

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



13.1511, 0.4854, 0.4089



13.1511, 0.4337, 0.4696



13.1511, 0.3545, 0.5006

Triad

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



13.1511, 0.4337, 0.4696



13.1511, 0.1643, 0.2745



13.1511, 0.3382, 0.2325

Complementary

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



13.1511, 0.4337, 0.4696



2.9179, 0.1760, 0.1197

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.



13.1511, 0.2504, 0.2015



13.1511, 0.4337, 0.4696



13.1511, 0.1620, 0.2167

Square

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



13.1511, 0.4337, 0.4696



13.1511, 0.2002, 0.3688



13.1511, 0.1904, 0.1947



13.1511, 0.4309, 0.2828

Rectangle

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



13.1511, 0.4337, 0.4696



13.1511, 0.2968, 0.4852



13.1511, 0.1904, 0.1947



13.1511, 0.3067, 0.2197

Sweetspot

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



13.1517, 0.4337, 0.4696



28.8282, 0.3500, 0.3779



4.5499, 0.5331, 0.3020



6.5549, 0.3545, 0.3836



60.3827, 0.3127, 0.3290



7.3239, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



13.1517, 0.4337, 0.4696



22.2194, 0.4495, 0.4781



14.8253, 0.3685, 0.5217



4.1653, 0.3258, 0.3465



13.5817, 0.4516, 0.4796



65.0937, 0.4537, 0.4780

Inverse Universe

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



2.9179, 0.1760, 0.1197



3.3266, 0.1576, 0.0830



2.6474, 0.2013, 0.1072



3.6815, 0.2995, 0.3109



1.9458, 0.1554, 0.0795



8.5921, 0.1536, 0.0730

Previews

White Background



This preview shows how the Yxy color 13.1511, 0.4337, 0.4696 looks on a white 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 × Fail

Black Background



This preview shows how the Yxy color 13.1511, 0.4337, 0.4696 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

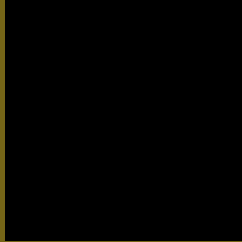
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 13.1511, 0.4337, 0.4696

Background



This preview shows how black text looks on a background with the Yxy color 13.1511, 0.4337, 0.4696.



This preview shows how white text looks on a background with the Yxy color 13.1511, 0.4337, 0.4696.

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

13.1511, 0.4337, 0.4696

Protanopia

13.1420, 0.4275, 0.4743

Deuteranopia

13.2088, 0.4553, 0.4504



Tritanopia

13.0826, 0.3461, 0.3149

Trichromacy



Original Color

13.1511, 0.4337, 0.4696

Protanomaly

13.2094, 0.4290, 0.4732

Deuteranomaly

13.0864, 0.4484, 0.4569

Tritanomaly

13.0235, 0.3848, 0.3790

Monochromacy



Original Color

13.1511, 0.4337, 0.4696

Achromatopsia

11.9538, 0.3127, 0.3290

Achromatomaly

12.1206, 0.3625, 0.3929

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.1511, 0.4337, 0.4696 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(117, 101, 23)` looks like.

```
.text, #text, p{  
    color:rgb(117, 101, 23)  
}
```

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(117, 101, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 101, 23) }
```

Border

The CSS property to change the border of an element to Yxy 13.1511, 0.4337, 0.4696 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(117, 101, 23) }
```

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

```
.border{ border-color:rgb(117, 101, 23) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 101, 23)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 101, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 101, 23);  
box-shadow:4px 4px 4px 4px rgb(117, 101,  
23) }
```


Background

The CSS property to change the background color of an element to Yxy 13.1511, 0.4337, 0.4696 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 101, 23) }
```

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

```
.background{ background-color: rgb(117,  
101, 23) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor