

Converting Colors

$Y_{xy}(12.8356, 0.2607, 0.4451)$

Have a look what the booklet for
Yxy(12.8356, 0.2607, 0.4451)
contains.

Yxy(12.8414, 0.2603, 0.4438)	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(12.8414, 0.2603, 0.4438)

Conversions

Conversions Part 1

Format	Color
Hex	0D734A
RGB	13, 115, 74
RGB Percent	5%, 45%, 29%
CMY	0.9494, 0.5490, 0.7098
CMYK	0.89, 0.00, 0.36, 0.55
HSL	156°, 80%, 25%
HSV	156°, 89%, 45%
XYZ	7.5318, 12.8414, 8.5619
YIQ	79.8280, -47.6310, -34.3750

Conversions

Conversions Part 2

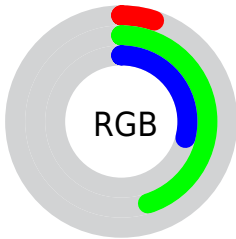
Format	Color
RYB	13, 77, 115
Decimal	881482
CIELab	42.52, -37.49, 15.22
CIELCh	43, 40.465, 157.909
Yxy	12.8414, 0.2603, 0.4438
Android (android.graphics.Color)	4279071562 (0xFF0D734A)
YUV	79.8280, -2.8732, -58.6082
Hunter-Lab	35.8349, -25.1938, 10.9185

Details

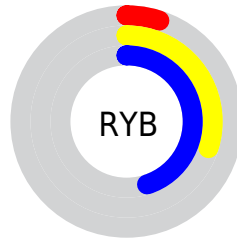
The Yxy color **12.8414, 0.2603, 0.4438** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **4.1957, 0.4940, 0.2632**, and the grayscale version is **7.9940, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.0976, 0.2754, 0.4116**, and **3.9902, 0.2709, 0.4953** is the 20% darker color. If you saturate the color by 10%, you get **12.7062, 0.2611, 0.4586**, and if you desaturate by 10%, it is **13.0208, 0.2607, 0.4289**.

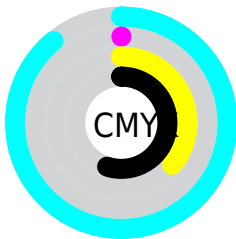
Distribution



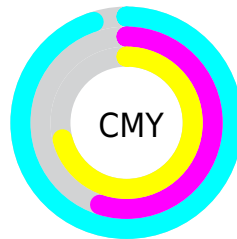
- Red (5%)
- Green (45%)
- Blue (29%)



- Red (5%)
- Yellow (30%)
- Blue (45%)



- Cyan (89%)
- Magenta (0%)
- Yellow (36%)
- Black (55%)




- Cyan (95%)
- Magenta (55%)
- Yellow (71%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8414, 0.2603, 0.4438 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 12.8414, 0.2603, 0.4438 by changing the saturation by 10% instead.


 12.8414, 0.2603,
0.4438


 12.8414, 0.2603,
0.4438


209.8987, 0.2938,
0.3705


 7.3194, 0.2477,
0.4713


 31.0186, 0.2751,
0.4116


 3.6627, 0.2274,
0.5155

 44.4425, 0.2797,
0.4014

 1.4867, 0.1724,
0.6368

 61.2693, 0.2834,
0.3934

 0.2793, 0.0000,
1.0000


 81.8832, 0.2863,
0.3870

 0.0000, 0.0000,
0.0000

 106.6687, 0.2887,
0.3818


 136.0102, 0.2907,


0.3774


 170.2921, 0.2924,
0.3737


 12.8414, 0.2603,
0.4438

 12.8414, 0.2603,
0.4438


 12.7062, 0.2611,
0.4586

 13.0208, 0.2607,
0.4289

 12.6902, 0.2612,
0.4604

 13.2641, 0.2630,
0.4140

 13.5787, 0.2670,
0.3994

 13.9704, 0.2725,
0.3852

 14.4445, 0.2793,
0.3719

■ 15.0056, 0.2871,
0.3594

■ 15.6582, 0.2956,
0.3479

■ 16.4064, 0.3046,
0.3374

■ 17.2540, 0.3138,
0.3279

Harmonies

Analogous

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



12.8414, 0.3406, 0.4892



12.8414, 0.2603, 0.4438



12.8414, 0.1988, 0.3515

Triad

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



12.8414, 0.2603, 0.4438



12.8414, 0.2036, 0.2006



12.8414, 0.4811, 0.3540

Complementary

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



12.8414, 0.2603, 0.4438



4.1957, 0.4940, 0.2632

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.



12.8414, 0.4354, 0.2943



12.8414, 0.2603, 0.4438



12.8414, 0.2656, 0.2108

Square

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



12.8414, 0.2603, 0.4438



12.8414, 0.1715, 0.2175



12.8414, 0.3513, 0.2439



12.8414, 0.4715, 0.4161

Rectangle

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



12.8414, 0.2603, 0.4438



12.8414, 0.1754, 0.2920



12.8414, 0.3513, 0.2439



12.8414, 0.4718, 0.3335

Sweetspot

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



12.8419, 0.2603, 0.4438



26.9858, 0.2880, 0.3581



13.1161, 0.3332, 0.5601



6.3700, 0.2858, 0.3613



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.



12.8419, 0.2603, 0.4438



22.6956, 0.2622, 0.4640



11.7333, 0.2214, 0.3069



4.1316, 0.3043, 0.3377



14.5020, 0.2615, 0.4613



70.4973, 0.2636, 0.4690

Inverse Universe

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



4.1957, 0.4940, 0.2632



6.8573, 0.5333, 0.2712



4.2253, 0.5961, 0.3395



3.7230, 0.3219, 0.3205



4.3898, 0.5287, 0.2686



21.2320, 0.5418, 0.2758

Previews

White Background



This preview shows how the Yxy color 12.8414, 0.2603, 0.4438 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 12.8414, 0.2603, 0.4438 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 12.8414, 0.2603, 0.4438

Background



This preview shows how black text looks on a background with the Yxy color 12.8414, 0.2603, 0.4438.



This preview shows how white text looks on a background with the Yxy color 12.8414, 0.2603, 0.4438.

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

12.8414, 0.2603, 0.4438

Protanopia

12.7198, 0.3705, 0.3999

Deuteranopia

12.6977, 0.3730, 0.3673



Tritanopia

12.9521, 0.2340, 0.3093

Trichromacy



Original Color

12.8414, 0.2603, 0.4438

Protanomaly

11.9618, 0.3124, 0.4197

Deuteranomaly

11.8986, 0.3124, 0.3948

Tritanomaly

12.8390, 0.2420, 0.3548

Monochromacy



Original Color

12.8414, 0.2603, 0.4438

Achromatopsia

8.0220, 0.3127, 0.3290

Achromatomaly

9.2195, 0.2795, 0.3723

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8414, 0.2603, 0.4438 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(13, 115, 74)` looks like.

```
.text, #text, p{  
    color:rgb(13, 115, 74)  
}
```

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(13, 115, 74) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(13, 115, 74) }
```

Border

The CSS property to change the border of an element to Yxy 12.8414, 0.2603, 0.4438 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(13, 115, 74) }
```

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

```
.border{ border-color:rgb(13, 115, 74) }
```

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

Here you see how a box with a 4 pixel rgb(13, 115, 74) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(13, 115, 74); -webkit-box-  
shadow:4px 4px 4px 4px rgb(13, 115, 74);  
box-shadow:4px 4px 4px 4px rgb(13, 115,  
74) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8414, 0.2603, 0.4438 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(13, 115, 74) }
```

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

```
.background{ background-color: rgb(13, 115,  
74) }
```

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