

Converting Colors

$Y_{xy}(12.8428, 0.2457, 0.3939)$

Have a look what the booklet for
Yxy(12.8428, 0.2457, 0.3939)
contains.

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Color

$Y_{xy}(12.8510, 0.2459, 0.3942)$

Conversions

Conversions Part 1

Format	Color
Hex	0C725A
RGB	12, 114, 90
RGB Percent	5%, 45%, 35%
CMY	0.9523, 0.5530, 0.6470
CMYK	0.89, 0.00, 0.21, 0.55
HSL	166°, 81%, 25%
HSV	166°, 89%, 45%
XYZ	8.0164, 12.8510, 11.7328
YIQ	80.7660, -53.0880, -29.0880

Conversions

Conversions Part 2

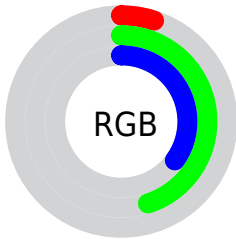
Format	Color
RYB	12, 70, 114
Decimal	815706
CIELab	42.54, -33.05, 5.76
CIELCh	43, 33.544, 170.121
Yxy	12.8510, 0.2459, 0.3942
Android (android.graphics.Color)	4279005786 (0xFF0C725A)
YUV	80.7660, 4.5524, -60.3078
Hunter-Lab	35.8483, -22.8184, 5.6887

Details

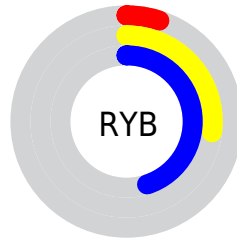
The Yxy color **12.8510, 0.2459, 0.3942** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **3.9725, 0.5507, 0.2959**, and the grayscale version is **8.1887, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.1931, 0.2635, 0.3774**, and **3.9624, 0.2513, 0.4246** is the 20% darker color. If you saturate the color by 10%, you get **12.7322, 0.2454, 0.4026**, and if you desaturate by 10%, it is **13.0076, 0.2476, 0.3859**.

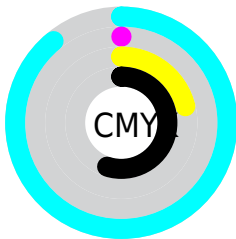
Distribution



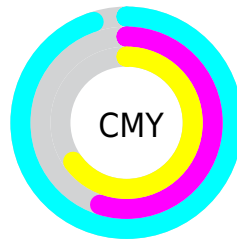
- Red (5%)
- Green (45%)
- Blue (35%)



- Red (5%)
- Yellow (27%)
- Blue (45%)



- Cyan (89%)
- Magenta (0%)
- Yellow (21%)
- Black (55%)





- Cyan (95%)
- Magenta (55%)
- Yellow (65%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8510, 0.2459, 0.3942 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 12.8510, 0.2459, 0.3942 by changing the saturation by 10% instead.


 12.8510, 0.2459,
0.3942


 12.8510, 0.2459,
0.3942


209.9605, 0.2867,
0.3536


 7.3260, 0.2319,
0.4087


 31.0358, 0.2631,
0.3768


 3.6668, 0.2107,
0.4314

 44.4645, 0.2688,
0.3711


 1.4890, 0.1644,
0.4776

 61.2965, 0.2733,
0.3667

 0.2810, 0.0000,
1.0000

 81.9162, 0.2770,
0.3631


 0.0000, 0.0000,
0.0000


 106.7081, 0.2800,
0.3601


 136.0565, 0.2826,


0.3576


 170.3459, 0.2848,
0.3555


 12.8510, 0.2459,
0.3942


 12.8510, 0.2459,
0.3942


 12.7322, 0.2454,
0.4026


 13.0076, 0.2476,
0.3859

 12.7242, 0.2453,
0.4031

 13.2237, 0.2510,
0.3776

 13.5063, 0.2562,
0.3694

 13.8610, 0.2631,
0.3615

 14.2931, 0.2713,
0.3540

■ 14.8071, 0.2807,
0.3469

■ 15.4073, 0.2910,
0.3403

■ 16.0975, 0.3020,
0.3342

■ 16.8816, 0.3135,
0.3286

Harmonies

Analogous

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



12.8510, 0.3102, 0.4507



12.8510, 0.2459, 0.3942



12.8510, 0.2027, 0.3181

Triad

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



12.8510, 0.2459, 0.3942



12.8510, 0.2391, 0.2200



12.8510, 0.4559, 0.3752

Complementary

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



12.8510, 0.2459, 0.3942



3.9725, 0.5507, 0.2959

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.



12.8510, 0.4351, 0.3216



12.8510, 0.2459, 0.3942



12.8510, 0.3017, 0.2372

Square

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



12.8510, 0.2459, 0.3942



12.8510, 0.2000, 0.2255



12.8510, 0.3756, 0.2732



12.8510, 0.4331, 0.4258

Rectangle

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



12.8510, 0.2459, 0.3942



12.8510, 0.1894, 0.2749



12.8510, 0.3756, 0.2732



12.8510, 0.4540, 0.3572

Sweetspot

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



12.8515, 0.2459, 0.3942



26.1838, 0.2823, 0.3458



12.4657, 0.3161, 0.5736



5.9982, 0.2798, 0.3475



58.7016, 0.3127, 0.3290



6.8385, 0.3127, 0.3290

Same Dimension

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



12.8515, 0.2459, 0.3942



22.3421, 0.2459, 0.4052



8.3625, 0.2084, 0.2592



3.8024, 0.3024, 0.3340



14.1629, 0.2454, 0.4036



70.4136, 0.2467, 0.4082

Inverse Universe

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



3.9725, 0.5507, 0.2959



6.4070, 0.5934, 0.3042



4.9665, 0.5669, 0.3662



3.4132, 0.3241, 0.3241



4.0673, 0.5886, 0.3016



20.1460, 0.6015, 0.3087

Previews

White Background



This preview shows how the Yxy color 12.8510, 0.2459, 0.3942 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 12.8510, 0.2459, 0.3942 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

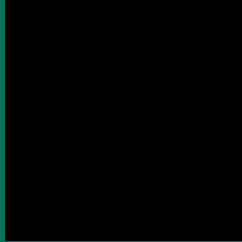
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8510, 0.2459, 0.3942

Background



This preview shows how black text looks on a background with the Yxy color 12.8510, 0.2459, 0.3942.



This preview shows how white text looks on a background with the Yxy color 12.8510, 0.2459, 0.3942.

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

12.8510, 0.2459, 0.3942

Protanopia

12.8030, 0.3458, 0.3670

Deuteranopia

12.8023, 0.3401, 0.3355



Tritanopia

12.8588, 0.2298, 0.3068

Trichromacy



Original Color

12.8510, 0.2459, 0.3942

Protanomaly

12.1528, 0.2919, 0.3773

Deuteranomaly

12.0273, 0.2885, 0.3538

Tritanomaly

12.6846, 0.2346, 0.3365

Monochromacy



Original Color

12.8510, 0.2459, 0.3942

Achromatopsia

8.2283, 0.3127, 0.3290

Achromatomaly

9.3095, 0.2721, 0.3545

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8510, 0.2459, 0.3942 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(12, 114, 90)` looks like.

```
.text, #text, p{  
    color:rgb(12, 114, 90)  
}
```

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(12, 114, 90) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 114, 90) }
```

Border

The CSS property to change the border of an element to Yxy 12.8510, 0.2459, 0.3942 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(12, 114, 90) }
```

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

```
.border{ border-color:rgb(12, 114, 90) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 114, 90)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 114, 90); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 114, 90);  
box-shadow:4px 4px 4px 4px rgb(12, 114,  
90) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8510, 0.2459, 0.3942 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 114, 90) }
```

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

```
.background{ background-color: rgb(12, 114,  
90) }
```

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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