

Converting Colors

$Y_{xy}(12.7890, 0.2452, 0.3799)$

Have a look what the booklet for
Yxy(12.7890, 0.2452, 0.3799)
contains.

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Color

Yxy(12.7890, 0.2452, 0.3799)

Conversions

Conversions Part 1

Format	Color
Hex	16715E
RGB	22, 113, 94
RGB Percent	9%, 44%, 37%
CMY	0.9141, 0.5568, 0.6314
CMYK	0.81, 0.00, 0.17, 0.56
HSL	167°, 68%, 26%
HSV	167°, 81%, 44%
XYZ	8.2544, 12.7890, 12.6207
YIQ	83.6250, -48.1370, -25.2010

Conversions

Conversions Part 2

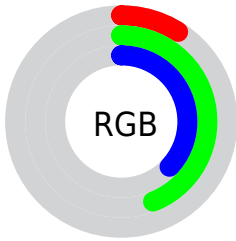
Format	Color
R_{YB}	22, 73, 113
Decimal	1470814
CIE _{Lab}	42.44, -30.49, 3.25
CIE _{LCh}	42, 30.663, 173.916
Yxy	12.7890, 0.2452, 0.3799
Android (android.graphics.Color)	4279660894 (0xFF16715E)
YUV	83.6250, 5.1149, -54.0451
Hunter-Lab	35.7617, -21.3820, 4.1091

Details

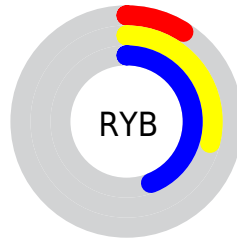
The Yxy color **12.7890, 0.2452, 0.3799** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **4.2411, 0.5259, 0.2976**, and the grayscale version is **8.7760, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.7629, 0.2626, 0.3663**, and **3.8802, 0.2448, 0.4014** is the 20% darker color. If you saturate the color by 10%, you get **12.6468, 0.2435, 0.3872**, and if you desaturate by 10%, it is **12.9898, 0.2486, 0.3726**.

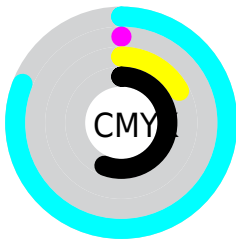
Distribution



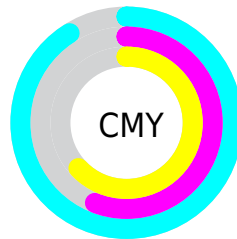
- Red (9%)
- Green (44%)
- Blue (37%)



- Red (9%)
- Yellow (29%)
- Blue (44%)



- Cyan (81%)
- Magenta (0%)
- Yellow (17%)
- Black (56%)





- Cyan (91%)
- Magenta (56%)
- Yellow (63%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.7890, 0.2452, 0.3799 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 12.7890, 0.2452, 0.3799 by changing the saturation by 10% instead.


 12.7890, 0.2452,
0.3799


 12.7890, 0.2452,
0.3799


 209.5609, 0.2862,
0.3486


 7.2834, 0.2314,
0.3908


 30.9242, 0.2624,
0.3666


 3.6400, 0.2105,
0.4077

 44.3226, 0.2681,
0.3622

 1.4743, 0.1689,
0.4406

 61.1207, 0.2726,
0.3588

 0.2705, 0.0000,
0.8007

 81.7029, 0.2763,
0.3560

 0.0000, 0.0000,
0.0000

 106.4537, 0.2794,
0.3536

 135.7573, 0.2820,

0.3517

169.9983, 0.2842,
0.3500

■ 12.7890, 0.2452,
0.3799

■ 12.7890, 0.2452,
0.3799

■ 12.6468, 0.2435,
0.3872

■ 12.9898, 0.2486,
0.3726

■ 12.5403, 0.2428,
0.3941

■ 13.2541, 0.2538,
0.3655

■ 13.5882, 0.2607,
0.3585

■ 13.9971, 0.2689,
0.3519

■ 14.4853, 0.2785,
0.3456

■ 15.0571, 0.2890,
0.3397

■ 15.7163, 0.3002,
0.3343

■ 16.4666, 0.3120,
0.3293

■ 17.3114, 0.3240,
0.3248

Harmonies

Analogous

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



12.7890, 0.3031, 0.4350



12.7890, 0.2452, 0.3799



12.7890, 0.2078, 0.3115

Triad

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



12.7890, 0.2452, 0.3799



12.7890, 0.2512, 0.2287



12.7890, 0.4437, 0.3793

Complementary

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



12.7890, 0.2452, 0.3799



4.2411, 0.5259, 0.2976

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.



12.7890, 0.4294, 0.3292



12.7890, 0.2452, 0.3799



12.7890, 0.3114, 0.2472

Square

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



12.7890, 0.2452, 0.3799



12.7890, 0.2116, 0.2314



12.7890, 0.3786, 0.2828



12.7890, 0.4191, 0.4243

Rectangle

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



12.7890, 0.2452, 0.3799



12.7890, 0.1974, 0.2735



12.7890, 0.3786, 0.2828



12.7890, 0.4435, 0.3626

Sweetspot

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



12.7895, 0.2452, 0.3799



26.5277, 0.2846, 0.3420



12.3544, 0.3161, 0.5586



6.0700, 0.2817, 0.3436



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.



12.7895, 0.2452, 0.3799



22.4839, 0.2433, 0.3937



8.2102, 0.2118, 0.2582



3.8038, 0.3021, 0.3334



14.2200, 0.2429, 0.3945



70.7084, 0.2440, 0.3985

Inverse Universe

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



4.2411, 0.5259, 0.2976



6.5006, 0.5921, 0.3070



5.6599, 0.5303, 0.3752



3.4119, 0.3245, 0.3246



4.0526, 0.5967, 0.3061



20.0825, 0.6090, 0.3128

Previews

White Background



This preview shows how the Yxy color 12.7890, 0.2452, 0.3799 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 12.7890, 0.2452, 0.3799 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

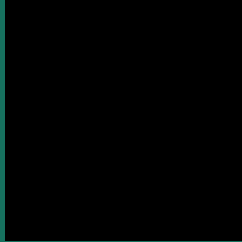
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.7890, 0.2452, 0.3799

Background



This preview shows how black text looks on a background with the Yxy color 12.7890, 0.2452, 0.3799.



This preview shows how white text looks on a background with the Yxy color 12.7890, 0.2452, 0.3799.

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

12.7890, 0.2452, 0.3799

Protanopia

12.5549, 0.3372, 0.3561

Deuteranopia

12.5626, 0.3313, 0.3247



Tritanopia

12.8719, 0.2317, 0.3092

Trichromacy



Original Color

12.7890, 0.2452, 0.3799

Protanomaly

12.0947, 0.2896, 0.3641

Deuteranomaly

11.9855, 0.2861, 0.3412

Tritanomaly

12.7801, 0.2362, 0.3339

Monochromacy



Original Color

12.7890, 0.2452, 0.3799

Achromatopsia

8.8656, 0.3127, 0.3290

Achromatomaly

9.8811, 0.2740, 0.3481

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.7890, 0.2452, 0.3799 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(22, 113, 94)` looks like.

```
.text, #text, p{  
    color:rgb(22, 113, 94)  
}
```

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(22, 113, 94) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(22, 113, 94) }
```

Border

The CSS property to change the border of an element to Yxy 12.7890, 0.2452, 0.3799 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(22, 113, 94) }
```

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

```
.border{ border-color:rgb(22, 113, 94) }
```

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

Here you see how a box with a 4 pixel rgb(22, 113, 94) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(22, 113, 94); -webkit-box-  
shadow:4px 4px 4px 4px rgb(22, 113, 94);  
box-shadow:4px 4px 4px 4px rgb(22, 113,  
94) }
```


Background

The CSS property to change the background color of an element to Yxy 12.7890, 0.2452, 0.3799 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(22, 113, 94) }
```

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

```
.background{ background-color: rgb(22, 113,  
94) }
```

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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