

Converting Colors

$Y_{xy}(12.9152, 0.3295, 0.4202)$

Have a look what the booklet for
Yxy(12.9152, 0.3295, 0.4202)
contains.

Yxy(12.8889, 0.3288, 0.4192)	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(12.8889, 0.3288, 0.4192)

Conversions

Conversions Part 1

Format	Color
Hex	556B46
RGB	85, 107, 70
RGB Percent	33%, 42%, 27%
CMY	0.6667, 0.5804, 0.7255
CMYK	0.21, 0.00, 0.35, 0.58
HSL	96°, 21%, 35%
HSV	96°, 35%, 42%
XYZ	10.1094, 12.8889, 7.7481
YIQ	96.2040, -1.2350, -16.1710

Conversions

Conversions Part 2

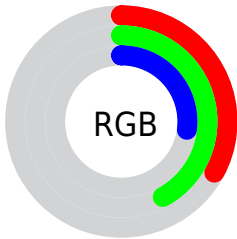
Format	Color
R_{YB}	70, 107, 92
Decimal	5598022
CIE _{Lab}	42.60, -15.67, 18.15
CIE _{LCh}	43, 23.974, 130.801
Yxy	12.8889, 0.3288, 0.4192
Android (android.graphics.Color)	4283788102 (0xFF556B46)
YUV	96.2040, -12.9186, -9.8259
Hunter-Lab	35.9011, -12.5630, 12.3349

Details

The Yxy color **12.8889, 0.3288, 0.4192** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **7.7162, 0.2903, 0.2420**, and the grayscale version is **11.7818, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.9365, 0.3252, 0.3938**, and **3.7376, 0.3325, 0.4710** is the 20% darker color. If you saturate the color by 10%, you get **12.4817, 0.3324, 0.4485**, and if you desaturate by 10%, it is **13.3481, 0.3245, 0.3909**.

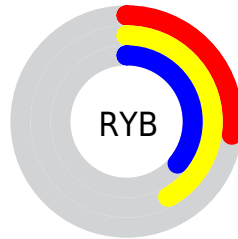
Distribution



Red (33%)

Green (42%)

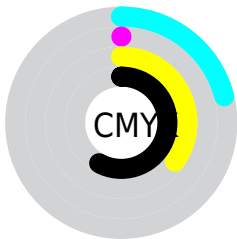
Blue (27%)



Red (27%)

Yellow (42%)

Blue (36%)

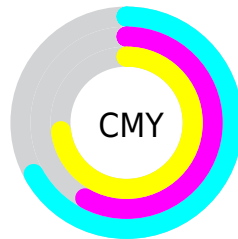


Cyan (21%)

Magenta (0%)

Yellow (35%)

Black (58%)



Cyan (67%)


Magenta (58%)


Yellow (73%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8889, 0.3288, 0.4192 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 12.8889, 0.3288, 0.4192 by changing the saturation by 10% instead.


 12.8889, 0.3288,
0.4192


 12.8889, 0.3288,
0.4192


210.2044, 0.3202,
0.3629


 7.3521, 0.3307,
0.4393


 31.1040, 0.3257,
0.3950


 3.6833, 0.3324,
0.4705

 44.5512, 0.3245,
0.3871


 1.4980, 0.3515,
0.5560

 61.4038, 0.3235,
0.3809

 0.2873, 0.0000,
1.0000

 82.0465, 0.3226,
0.3759

 0.0000, 0.0000,
0.0000

 106.8635, 0.3219,
0.3718

136.2392, 0.3212,

0.3683

170.5580, 0.3207,
0.3654

■ 12.8889, 0.3288,
0.4192

■ 12.8889, 0.3288,
0.4192

■ 12.4817, 0.3324,
0.4485

■ 13.3481, 0.3245,
0.3909

■ 12.1228, 0.3349,
0.4778

■ 13.8595, 0.3199,
0.3642

■ 11.8106, 0.3361,
0.5058

■ 14.4253, 0.3150,
0.3396

■ 11.5429, 0.3357,
0.5312

■ 15.0473, 0.3101,
0.3171

■ 11.3171, 0.3336,
0.5525

■ 15.7270, 0.3053,
0.2968

■ 11.1291, 0.3300,
0.5690

■ 16.4660, 0.3006,
0.2786

■ 11.0381, 0.3282,
0.5776

■ 17.2657, 0.2962,
0.2624

■ 18.1276, 0.2921,
0.2479

■ 19.0530, 0.2882,
0.2350

Harmonies

Analogous

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



12.8889, 0.3766, 0.4181



12.8889, 0.3288, 0.4192



12.8889, 0.2790, 0.3890

Triad

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



12.8889, 0.3288, 0.4192



12.8889, 0.2238, 0.2590



12.8889, 0.3891, 0.3133

Complementary

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



12.8889, 0.3288, 0.4192



7.7162, 0.2903, 0.2420

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.



12.8889, 0.3422, 0.2783



12.8889, 0.3288, 0.4192



12.8889, 0.2478, 0.2473

Square

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



12.8889, 0.3288, 0.4192



12.8889, 0.2211, 0.2909



12.8889, 0.2900, 0.2547



12.8889, 0.4140, 0.3537

Rectangle

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



12.8889, 0.3288, 0.4192



12.8889, 0.2513, 0.3566



12.8889, 0.2900, 0.2547



12.8889, 0.3751, 0.3007

Sweetspot

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



12.8895, 0.3288, 0.4192



25.2400, 0.3178, 0.3534



11.1502, 0.3718, 0.3783



6.0835, 0.3183, 0.3560



57.0482, 0.3127, 0.3290



6.3724, 0.3127, 0.3290

Same Dimension

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



12.8895, 0.3288, 0.4192



22.4459, 0.3319, 0.4444



12.2999, 0.3046, 0.4169



3.4991, 0.3171, 0.3501



13.4105, 0.3275, 0.5782



67.8519, 0.3236, 0.5813

Inverse Universe

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



7.7162, 0.2903, 0.2420



11.5750, 0.2830, 0.2188



8.5033, 0.3218, 0.2546



3.1057, 0.3080, 0.3081



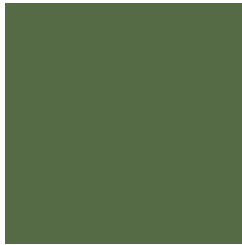
2.5836, 0.2255, 0.1016



12.6481, 0.2204, 0.0988

Previews

White Background



This preview shows how the Yxy color 12.8889, 0.3288, 0.4192 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 12.8889, 0.3288, 0.4192 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

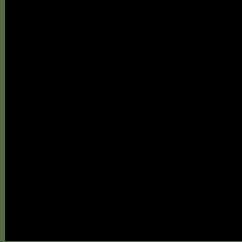
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8889, 0.3288, 0.4192

Background



This preview shows how black text looks on a background with the Yxy color 12.8889, 0.3288, 0.4192.



This preview shows how white text looks on a background with the Yxy color 12.8889, 0.3288, 0.4192.

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

12.8889, 0.3288, 0.4192

Protanopia

12.7708, 0.3735, 0.4016

Deuteranopia

12.7556, 0.3854, 0.3793



Tritanopia

12.8527, 0.2874, 0.3109

Trichromacy



Original Color

12.8889, 0.3288, 0.4192

Protanomaly

12.8272, 0.3558, 0.4094

Deuteranomaly

12.6951, 0.3646, 0.3937

Tritanomaly

12.8507, 0.3034, 0.3501

Monochromacy



Original Color

12.8889, 0.3288, 0.4192

Achromatopsia

11.6971, 0.3127, 0.3290

Achromatomaly

12.0778, 0.3186, 0.3600

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8889, 0.3288, 0.4192 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(85, 107, 70)` looks like.

```
.text, #text, p{  
    color:rgb(85, 107, 70)  
}
```

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(85, 107, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 107, 70) }
```

Border

The CSS property to change the border of an element to Yxy 12.8889, 0.3288, 0.4192 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(85, 107, 70) }
```

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

```
.border{ border-color:rgb(85, 107, 70) }
```

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

Here you see how a box with a 4 pixel `rgb(85, 107, 70)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 107, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(85, 107, 70);  
box-shadow:4px 4px 4px 4px rgb(85, 107,  
70) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8889, 0.3288, 0.4192 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 107, 70) }
```

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

```
.background{ background-color: rgb(85, 107,  
70) }
```

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