

Converting Colors

$Y_{xy}(12.1180, 0.3072, 0.4269)$

Have a look what the booklet for
Yxy(12.1180, 0.3072, 0.4269)
contains.

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Color

$Y_{xy}(12.2103, 0.3081, 0.4281)$

Conversions

Conversions Part 1

Format	Color
Hex	456B45
RGB	69, 107, 69
RGB Percent	27%, 42%, 27%
CMY	0.7293, 0.5804, 0.7294
CMYK	0.35, 0.00, 0.36, 0.58
HSL	120°, 22%, 35%
HSV	120°, 36%, 42%
XYZ	8.7877, 12.2103, 7.5241
YIQ	91.3060, -10.4500, -19.8740

Conversions

Conversions Part 2

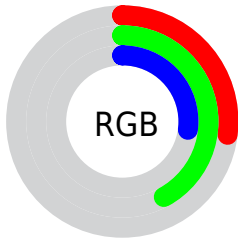
Format	Color
R_{YB}	69, 107, 107
Decimal	4549445
CIE _{Lab}	41.55, -21.96, 17.15
CIE _{LCh}	42, 27.866, 142.017
Yxy	12.2103, 0.3081, 0.4281
Android (android.graphics.Color)	4282739525 (0xFF456B45)
YUV	91.3060, -10.9969, -19.5624
Hunter-Lab	34.9432, -16.2609, 11.6937

Details

The Yxy color **12.2103, 0.3081, 0.4281** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **8.4421, 0.3165, 0.2465**, and the grayscale version is **10.5641, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.0262, 0.3103, 0.4003**, and **3.3687, 0.3001, 0.4882** is the 20% darker color. If you saturate the color by 10%, you get **11.7331, 0.3065, 0.4615**, and if you desaturate by 10%, it is **12.7830, 0.3096, 0.3966**.

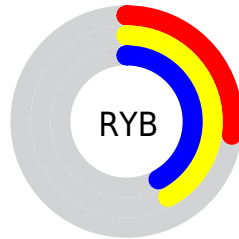
Distribution



Red (27%)

Green (42%)

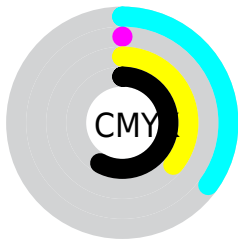
Blue (27%)



Red (27%)

Yellow (42%)

Blue (42%)

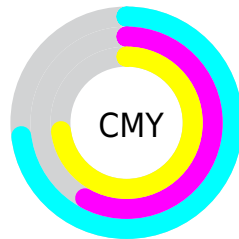


Cyan (35%)

Magenta (0%)

Yellow (36%)

Black (58%)



Cyan (73%)


Magenta (58%)


Yellow (73%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.2103, 0.3081, 0.4281 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 12.2103, 0.3081, 0.4281 by changing the saturation by 10% instead.


 12.2103, 0.3081,
0.4281


 12.2103, 0.3081,
0.4281


205.7926, 0.3123,
0.3652


 6.8871, 0.3054,
0.4515


 29.8775, 0.3105,
0.4006


 3.3916, 0.2999,
0.4887

 42.9904, 0.3111,
0.3918


 1.3394, 0.3070,
0.6057

 59.4685, 0.3115,
0.3850

 0.1714, 0.0000,
1.0000

 79.6963, 0.3118,
0.3794

 0.0000, 0.0000,
0.0000

 104.0582, 0.3120,
0.3749

132.9387, 0.3121,

0.3711

166.7220, 0.3123,
0.3679

■ 12.2103, 0.3081,
0.4281

■ 12.2103, 0.3081,
0.4281

■ 11.7331, 0.3065,
0.4615

■ 12.7830, 0.3096,
0.3966

■ 11.3447, 0.3050,
0.4953

■ 13.4544, 0.3109,
0.3677

■ 11.0402, 0.3034,
0.5275


■ 14.2293, 0.3121,
0.3419


■ 10.8134, 0.3021,
0.5557


■ 15.1118, 0.3132,
0.3192

■ 10.6572, 0.3011,
0.5777

■ 16.1059, 0.3141,
0.2994


 10.5568, 0.3003,
0.5932

 17.2153, 0.3149,
0.2822

 10.5153, 0.3000,
0.6000

 18.4435, 0.3156,
0.2674

 19.7939, 0.3162,
0.2547

 21.2697, 0.3167,
0.2436

Harmonies

Analogous

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



12.2103, 0.3670, 0.4394



12.2103, 0.3081, 0.4281



12.2103, 0.2534, 0.3797

Triad

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



12.2103, 0.3081, 0.4281



12.2103, 0.2169, 0.2392



12.2103, 0.4182, 0.3269

Complementary

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



12.2103, 0.3081, 0.4281



8.4421, 0.3165, 0.2465

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.



12.2103, 0.3700, 0.2836



12.2103, 0.3081, 0.4281



12.2103, 0.2528, 0.2350

Square

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



12.2103, 0.3081, 0.4281



12.2103, 0.2044, 0.2666



12.2103, 0.3078, 0.2511



12.2103, 0.4341, 0.3738

Rectangle

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



12.2103, 0.3081, 0.4281



12.2103, 0.2263, 0.3377



12.2103, 0.3078, 0.2511



12.2103, 0.4050, 0.3117

Sweetspot

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



12.2108, 0.3081, 0.4281



24.6529, 0.3114, 0.3565



13.9386, 0.3633, 0.4107



5.9348, 0.3113, 0.3590



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.



12.2108, 0.3081, 0.4281



21.1124, 0.3067, 0.4571



12.4743, 0.2869, 0.3788



3.4449, 0.3117, 0.3504



12.7931, 0.3000, 0.6000



65.1849, 0.3000, 0.6000

Inverse Universe

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



8.4421, 0.3165, 0.2465



13.2233, 0.3174, 0.2273



8.0973, 0.3503, 0.2843



3.1638, 0.3137, 0.3084



5.0885, 0.3208, 0.1541



25.9267, 0.3207, 0.1541

Previews

White Background



This preview shows how the Yxy color 12.2103, 0.3081, 0.4281 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 12.2103, 0.3081, 0.4281 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

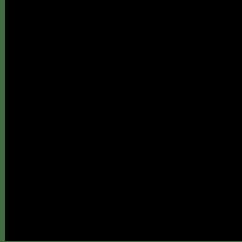
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.2103, 0.3081, 0.4281

Background



This preview shows how black text looks on a background with the Yxy color 12.2103, 0.3081, 0.4281.



This preview shows how white text looks on a background with the Yxy color 12.2103, 0.3081, 0.4281.

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

12.2103, 0.3081, 0.4281

Protanopia

12.1812, 0.3730, 0.4033

Deuteranopia

12.1181, 0.3804, 0.3765



Tritanopia

12.2063, 0.2698, 0.3100

Trichromacy



Original Color

12.2103, 0.3081, 0.4281

Protanomaly

12.0279, 0.3486, 0.4130

Deuteranomaly

11.9753, 0.3508, 0.3949

Tritanomaly

12.1827, 0.2837, 0.3513

Monochromacy



Original Color

12.2103, 0.3081, 0.4281

Achromatopsia

10.4616, 0.3127, 0.3290

Achromatomaly

11.0129, 0.3111, 0.3643

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.2103, 0.3081, 0.4281 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(69, 107, 69)` looks like.

```
.text, #text, p{  
    color:rgb(69, 107, 69)  
}
```

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(69, 107, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 107, 69) }
```

Border

The CSS property to change the border of an element to Yxy 12.2103, 0.3081, 0.4281 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(69, 107, 69) }
```

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

```
.border{ border-color:rgb(69, 107, 69) }
```

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

Here you see how a box with a 4 pixel rgb(69, 107, 69) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 107, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 107, 69);  
box-shadow:4px 4px 4px 4px rgb(69, 107,  
69) }
```


Background

The CSS property to change the background color of an element to Yxy 12.2103, 0.3081, 0.4281 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 107, 69) }
```

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

```
.background{ background-color: rgb(69, 107,  
69) }
```

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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