

Converting Colors

$Y_{xy}(12.4202, 0.2775, 0.5189)$

Have a look what the booklet for
Yxy(12.4202, 0.2775, 0.5189)
contains.

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Color

$\text{Yxy}(12.4749, 0.2778, 0.5200)$

Conversions

Conversions Part 1

Format	Color
Hex	007330
RGB	0, 115, 48
RGB Percent	0%, 45%, 19%
CMY	0.9998, 0.5490, 0.8118
CMYK	1.00, 0.00, 0.58, 0.55
HSL	145°, 100%, 23%
HSV	145°, 100%, 45%
XYZ	6.6645, 12.4749, 4.8508
YIQ	72.9770, -47.0330, -45.2170

Conversions

Conversions Part 2

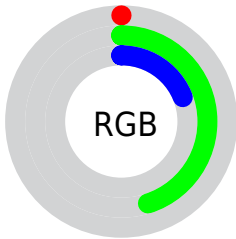
Format	Color
RYB	0, 81, 115
Decimal	29488
CIELab	41.96, -43.65, 29.03
CIELCh	42, 52.426, 146.373
Yxy	12.4749, 0.2778, 0.5200
Android (android.graphics.Color)	4278219568 (0xFF007330)
YUV	72.9770, -12.3137, -64.0008
Hunter-Lab	35.3198, -28.1286, 16.5810

Details

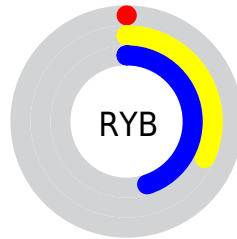
The Yxy color **12.4749, 0.2778, 0.5200** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **4.0525, 0.4538, 0.2274**, and the grayscale version is **6.6897, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.3456, 0.2913, 0.4648**, and **3.7806, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **12.4747, 0.2778, 0.5201**, and if you desaturate by 10%, it is **12.6096, 0.2760, 0.5002**.

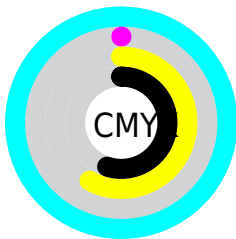
Distribution



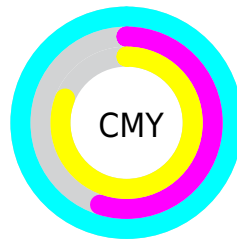
- Red (0%)
- Green (45%)
- Blue (19%)



- Red (0%)
- Yellow (32%)
- Blue (45%)



- Cyan (100%)
- Magenta (0%)
- Yellow (58%)
- Black (55%)





- Cyan (100%)
- Magenta (55%)
- Yellow (81%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.4749, 0.2778, 0.5200 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 12.4749, 0.2778, 0.5200 by changing the saturation by 10% instead.


 12.4749, 0.2778,
0.5200


 12.4749, 0.2778,
0.5200

207.5244, 0.3042,
0.3959


 7.0680, 0.2645,
0.5669


 30.3571, 0.2911,
0.4649


 3.5046, 0.2416,
0.6448

 43.6012, 0.2948,
0.4476


 1.4005, 0.1211,
0.8789

 60.2265, 0.2974,
0.4341

 0.2171, 0.0000,
1.0000

 80.6174, 0.2995,
0.4234


 0.0000, 0.0000,
0.0000


 105.1582, 0.3010,
0.4146

 134.2334, 0.3023,

0.4073


 168.2273, 0.3033,
0.4011


 12.4749, 0.2778,
0.5200


 12.4749, 0.2778,
0.5200

 12.4747, 0.2778,
0.5201

 12.6096, 0.2760,
0.5002

 12.7858, 0.2751,
0.4793

 13.0300, 0.2759,
0.4577

 13.3494, 0.2784,
0.4359

 13.7500, 0.2822,
0.4148

■ 14.2374, 0.2871,
0.3946

■ 14.8166, 0.2929,
0.3758

■ 15.4922, 0.2993,
0.3586

■ 16.2685, 0.3060,
0.3429

Harmonies

Analogous

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



12.4749, 0.3788, 0.5345



12.4749, 0.2778, 0.5200



12.4749, 0.1914, 0.4076

Triad

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



12.4749, 0.2778, 0.5200



12.4749, 0.1584, 0.1735



12.4749, 0.5166, 0.3242

Complementary

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



12.4749, 0.2778, 0.5200



4.0525, 0.4538, 0.2274

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.



12.4749, 0.4331, 0.2576



12.4749, 0.2778, 0.5200



12.4749, 0.2178, 0.1754

Square

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



12.4749, 0.2778, 0.5200



12.4749, 0.1343, 0.2047



12.4749, 0.3157, 0.2049



12.4749, 0.5253, 0.3974

Rectangle

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



12.4749, 0.2778, 0.5200



12.4749, 0.1546, 0.3194



12.4749, 0.3157, 0.2049



12.4749, 0.4961, 0.3011

Sweetspot

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



12.4754, 0.2778, 0.5200



26.4376, 0.2924, 0.3774



13.4591, 0.3513, 0.5592



6.2210, 0.2904, 0.3835



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.



12.4754, 0.2778, 0.5200



22.3124, 0.2791, 0.5247



13.2908, 0.2316, 0.3537



4.1212, 0.3066, 0.3416



14.2568, 0.2781, 0.5213



69.3124, 0.2808, 0.5309

Inverse Universe

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



4.0525, 0.4538, 0.2274



7.2268, 0.4583, 0.2298



3.6674, 0.6249, 0.3217



3.7333, 0.3194, 0.3167



4.6265, 0.4550, 0.2280



22.3719, 0.4642, 0.2331

Previews

White Background



This preview shows how the Yxy color 12.4749, 0.2778, 0.5200 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 12.4749, 0.2778, 0.5200 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 12.4749, 0.2778, 0.5200

Background



This preview shows how black text looks on a background with the Yxy color 12.4749, 0.2778, 0.5200.



This preview shows how white text looks on a background with the Yxy color 12.4749, 0.2778, 0.5200.

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

12.4749, 0.2778, 0.5200

Protanopia

12.4131, 0.4071, 0.4461

Deuteranopia

12.3367, 0.4171, 0.4099



Tritanopia

12.5674, 0.2357, 0.3067

Trichromacy



Original Color

12.4749, 0.2778, 0.5200



Protanomaly

11.5947, 0.3363, 0.4843



Deuteranomaly

11.3285, 0.3407, 0.4577



Tritanomaly

12.4028, 0.2490, 0.3803

Monochromacy



Original Color

12.4749, 0.2778, 0.5200



Achromatopsia

6.6626, 0.3127, 0.3290



Achromatomaly

7.9305, 0.2833, 0.4054

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.4749, 0.2778, 0.5200 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(0, 115, 48)` looks like.

```
.text, #text, p{  
    color:rgb(0, 115, 48)  
}
```

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(0, 115, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 115, 48) }
```

Border

The CSS property to change the border of an element to Yxy 12.4749, 0.2778, 0.5200 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(0, 115, 48) }
```

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

```
.border{ border-color:rgb(0, 115, 48) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 115, 48)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 115, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 115, 48);  
box-shadow:4px 4px 4px 4px rgb(0, 115, 48)  
}
```


Background

The CSS property to change the background color of an element to Yxy 12.4749, 0.2778, 0.5200 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 115, 48) }
```

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

```
.background{ background-color: rgb(0, 115,  
48) }
```

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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