

Converting Colors

$Y_{xy}(12.1760, 0.2423, 0.5150)$

Have a look what the booklet for
Yxy(12.1760, 0.2423, 0.5150)
contains.

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Color

$\text{Yxy}(12.7763, 0.2721, 0.4995)$

Conversions

Conversions Part 1

Format	Color
Hex	007438
RGB	0, 116, 56
RGB Percent	0%, 45%, 22%
CMY	0.9998, 0.5451, 0.7803
CMYK	1.00, 0.00, 0.52, 0.55
HSL	149°, 100%, 23%
HSV	149°, 100%, 45%
XYZ	6.9598, 12.7763, 5.8421
YIQ	74.4760, -49.8760, -43.2520

Conversions

Conversions Part 2

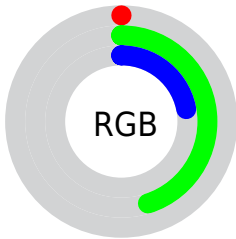
Format	Color
RYB	0, 78, 116
Decimal	29752
CIELab	42.42, -42.65, 25.30
CIELCh	42, 49.586, 149.324
Yxy	12.7763, 0.2721, 0.4995
Android (android.graphics.Color)	4278219832 (0xFF007438)
YUV	74.4760, -9.1087, -65.3155
Hunter-Lab	35.7440, -27.7956, 15.3303

Details

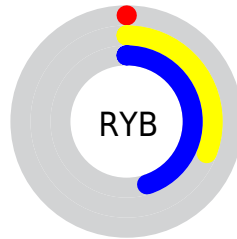
The Yxy color **12.7763, 0.2721, 0.4995** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **4.0407, 0.4803, 0.2420**, and the grayscale version is **6.9633, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.8713, 0.2860, 0.4508**, and **3.9206, 0.2912, 0.5685** is the 20% darker color. If you saturate the color by 10%, you get **12.7763, 0.2721, 0.4996**, and if you desaturate by 10%, it is **12.9145, 0.2705, 0.4811**.

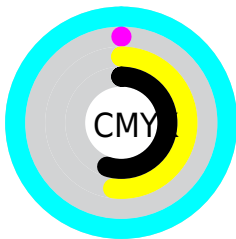
Distribution



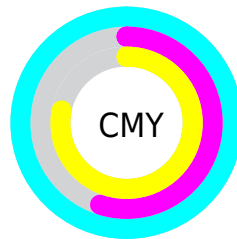
- Red (0%)
- Green (45%)
- Blue (22%)



- Red (0%)
- Yellow (31%)
- Blue (45%)



- Cyan (100%)
- Magenta (0%)
- Yellow (52%)
- Black (55%)




- Cyan (100%)
- Magenta (55%)
- Yellow (78%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.7763, 0.2721, 0.4995 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 12.7763, 0.2721, 0.4995 by changing the saturation by 10% instead.


 12.7763, 0.2721,
0.4995


 12.7763, 0.2721,
0.4995


209.4790, 0.3007,
0.3892

 7.2747, 0.2592,
0.5413


 30.9013, 0.2858,
0.4506


 3.6345, 0.2364,
0.6075

 44.2935, 0.2898,
0.4352


 1.4713, 0.1532,
0.8468

 61.0847, 0.2928,
0.4233

 0.2684, 0.0000,
1.0000


 81.6592, 0.2951,
0.4137

 0.0000, 0.0000,
0.0000

 106.4015, 0.2969,
0.4059

 135.6960, 0.2984,


0.3994

 169.9270, 0.2997,
0.3939


 12.7763, 0.2721,
0.4995


 12.7763, 0.2721,
0.4995


 12.7763, 0.2721,
0.4996

 12.9145, 0.2705,
0.4811

 13.0935, 0.2699,
0.4621

 13.3402, 0.2711,
0.4427

 13.6616, 0.2740,
0.4234

 14.0640, 0.2784,
0.4047

■ 14.5529, 0.2839,
0.3870

■ 15.1334, 0.2904,
0.3704

■ 15.8100, 0.2975,
0.3552

■ 16.5871, 0.3051,
0.3414

Harmonies

Analogous

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



12.7763, 0.3683, 0.5253



12.7763, 0.2721, 0.4995



12.7763, 0.1921, 0.3903

Triad

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



12.7763, 0.2721, 0.4995



12.7763, 0.1697, 0.1798



12.7763, 0.5088, 0.3328

Complementary

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



12.7763, 0.2721, 0.4995



4.0407, 0.4803, 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.



12.7763, 0.4360, 0.2676



12.7763, 0.2721, 0.4995



12.7763, 0.2307, 0.1841

Square

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



12.7763, 0.2721, 0.4995



12.7763, 0.1432, 0.2070



12.7763, 0.3267, 0.2150



12.7763, 0.5117, 0.4040

Rectangle

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



12.7763, 0.2721, 0.4995



12.7763, 0.1591, 0.3100



12.7763, 0.3267, 0.2150



12.7763, 0.4916, 0.3102

Sweetspot

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



12.7768, 0.2721, 0.4995



26.5139, 0.2899, 0.3717



13.5115, 0.3440, 0.5650



6.2406, 0.2877, 0.3771



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.



12.7768, 0.2721, 0.4995



22.4326, 0.2733, 0.5038



13.6640, 0.2274, 0.3385



4.1249, 0.3058, 0.3402



14.3341, 0.2724, 0.5005



69.6802, 0.2749, 0.5097

Inverse Universe

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



4.0407, 0.4803, 0.2420



7.0745, 0.4853, 0.2447



3.7226, 0.6339, 0.3266



3.7296, 0.3203, 0.3181



4.5293, 0.4815, 0.2426



21.8981, 0.4924, 0.2486

Previews

White Background



This preview shows how the Yxy color 12.7763, 0.2721, 0.4995 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 12.7763, 0.2721, 0.4995 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 12.7763, 0.2721, 0.4995

Background



This preview shows how black text looks on a background with the Yxy color 12.7763, 0.2721, 0.4995.



This preview shows how white text looks on a background with the Yxy color 12.7763, 0.2721, 0.4995.

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

12.7763, 0.2721, 0.4995

Protanopia

12.6684, 0.3965, 0.4335

Deuteranopia

12.5863, 0.4060, 0.3986



Tritanopia

12.8032, 0.2354, 0.3069

Trichromacy



Original Color

12.7763, 0.2721, 0.4995

Protanomaly

11.8672, 0.3275, 0.4670

Deuteranomaly

11.5940, 0.3319, 0.4423

Tritanomaly

12.6758, 0.2470, 0.3742

Monochromacy



Original Color

12.7763, 0.2721, 0.4995

Achromatopsia

6.8478, 0.3127, 0.3290

Achromatomaly

8.1543, 0.2810, 0.3979

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.7763, 0.2721, 0.4995 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, 116, 56)` looks like.

```
.text, #text, p{  
    color:rgb(0, 116, 56)  
}
```

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, 116, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 116, 56) }
```

Border

The CSS property to change the border of an element to Yxy 12.7763, 0.2721, 0.4995 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, 116, 56) }
```

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

```
.border{ border-color:rgb(0, 116, 56) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 116, 56)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 116, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 116, 56);  
box-shadow:4px 4px 4px 4px rgb(0, 116, 56)  
}
```


Background

The CSS property to change the background color of an element to Yxy 12.7763, 0.2721, 0.4995 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 116, 56) }
```

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

```
.background{ background-color: rgb(0, 116,  
56) }
```

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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