

Converting Colors

$Y_{xy}(12.2281, 0.2796, 0.6144)$

Have a look what the booklet for
Yxy(12.2281, 0.2796, 0.6144)
contains.

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Color

Yxy(12.7248, 0.2997, 0.5991)

Conversions

Conversions Part 1

Format	Color
Hex	007501
RGB	0, 117, 1
RGB Percent	0%, 46%, 0%
CMY	1.0000, 0.5412, 0.9960
CMYK	1.00, 0.00, 0.99, 0.54
HSL	121°, 100%, 23%
HSV	121°, 100%, 46%
XYZ	6.3656, 12.7248, 2.1495
YIQ	68.7930, -32.4960, -60.8800

Conversions

Conversions Part 2

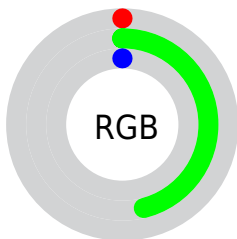
Format	Color
RYB	0, 116, 117
Decimal	29953
CIELab	42.35, -48.44, 46.54
CIELCh	42, 67.176, 136.144
Yxy	12.7248, 0.2997, 0.5991
Android (android.graphics.Color)	4278220033 (0xFF007501)
YUV	68.7930, -33.4219, -60.3315
Hunter-Lab	35.6718, -30.5727, 21.3977

Details

The Yxy color **12.7248, 0.2997, 0.5991** is a dark color, and the websafe version is hex **006600**. A complement of this color would be **5.0431, 0.3230, 0.1553**, and the grayscale version is **5.9761, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.7061, 0.3142, 0.5254**, and **4.0143, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **12.7262, 0.2997, 0.5991**, and if you desaturate by 10%, it is **12.8280, 0.3004, 0.5856**.

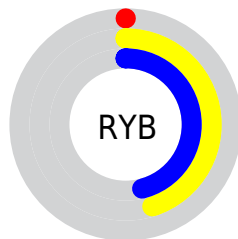
Distribution



Red (0%)

Green (46%)

Blue (0%)



Red (0%)

Yellow (45%)

Blue (46%)

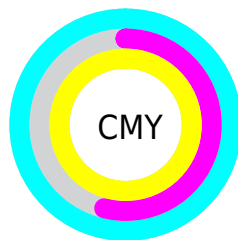


Cyan (100%)

Magenta (0%)

Yellow (99%)

Black (54%)



Cyan (100%)


Magenta (54%)

Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.7248, 0.2997, 0.5991 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 12.7248, 0.2997, 0.5991 by changing the saturation by 10% instead.


 12.7248, 0.2997,
0.5991


 12.7248, 0.2997,
0.5991


209.1463, 0.3198,
0.4262

 7.2393, 0.2830,
0.6584


 30.8085, 0.3137,
0.5252


 3.6122, 0.2514,
0.7486

 44.1755, 0.3165,
0.5009


 1.4591, 0.0740,
0.9260

 60.9384, 0.3181,
0.4816

 0.2597, 0.0000,
1.0000

 81.4817, 0.3190,
0.4661

 0.0000, 0.0000,
0.0000


 106.1898, 0.3195,
0.4534

 135.4470, 0.3197,


0.4428

 169.6377, 0.3198,
0.4339

 12.7248, 0.2997,
0.5991


 12.7248, 0.2997,
0.5991


 12.7262, 0.2997,
0.5991

 12.8280, 0.3004,
0.5856

 12.9777, 0.3011,
0.5670

 13.2093, 0.3022,
0.5414

 13.5322, 0.3037,
0.5107

 13.9545, 0.3052,
0.4772

■ 14.4835, 0.3069,
0.4433

■ 15.1259, 0.3085,
0.4106

■ 15.8875, 0.3101,
0.3804

■ 16.7740, 0.3115,
0.3531

Harmonies

Analogous

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



12.7248, 0.4188, 0.5554



12.7248, 0.2997, 0.5991



12.7248, 0.1901, 0.4922

Triad

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



12.7248, 0.2997, 0.5991



12.7248, 0.1171, 0.1502



12.7248, 0.5429, 0.2879

Complementary

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



12.7248, 0.2997, 0.5991



5.0431, 0.3230, 0.1553

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.



12.7248, 0.4129, 0.2175



12.7248, 0.2997, 0.5991



12.7248, 0.1685, 0.1430

Square

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



12.7248, 0.2997, 0.5991



12.7248, 0.1018, 0.1978



12.7248, 0.2678, 0.1661



12.7248, 0.5787, 0.3658

Rectangle

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



12.7248, 0.2997, 0.5991



12.7248, 0.1386, 0.3682



12.7248, 0.2678, 0.1661



12.7248, 0.5072, 0.2633

Sweetspot

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



12.7262, 0.2997, 0.5991



26.9865, 0.3084, 0.4131



16.5063, 0.4193, 0.5053



6.1135, 0.3079, 0.4237



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.



12.7262, 0.2997, 0.5991



22.7854, 0.2998, 0.5993



13.0346, 0.2706, 0.4940



4.0987, 0.3116, 0.3507



14.0198, 0.2998, 0.5991



68.3138, 0.2999, 0.5996

Inverse Universe

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



5.0431, 0.3230, 0.1553



9.0287, 0.3230, 0.1553



4.0930, 0.4876, 0.2460



3.7574, 0.3138, 0.3082



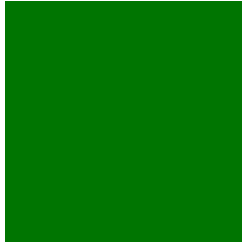
5.5557, 0.3230, 0.1553



27.0667, 0.3231, 0.1554

Previews

White Background



This preview shows how the Yxy color 12.7248, 0.2997, 0.5991 looks on a white background.

Color Contrast Check

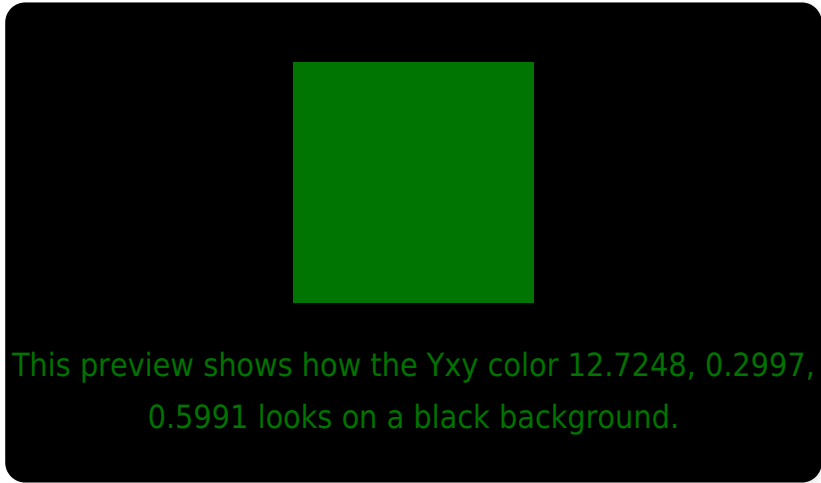
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

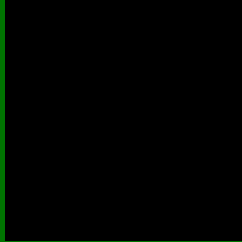
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.7248, 0.2997, 0.5991

Background



This preview shows how black text looks on a background with the Yxy color 12.7248, 0.2997, 0.5991.



This preview shows how white text looks on a background with the Yxy color 12.7248, 0.2997, 0.5991.

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

12.7248, 0.2997, 0.5991

Protanopia

12.6251, 0.4401, 0.4888

Deuteranopia

12.6902, 0.4556, 0.4492



Tritanopia

12.8983, 0.2382, 0.3071

Trichromacy



Original Color

12.7248, 0.2997, 0.5991

Protanomaly

11.6858, 0.3665, 0.5472

Deuteranomaly

11.4434, 0.3758, 0.5211

Tritanomaly

12.3876, 0.2662, 0.4322

Monochromacy



Original Color

12.7248, 0.2997, 0.5991

Achromatopsia

5.9511, 0.3127, 0.3290

Achromatomaly

7.3729, 0.3062, 0.4682

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.7248, 0.2997, 0.5991 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, 117, 1)` looks like.

```
.text, #text, p{  
    color:rgb(0, 117, 1)  
}
```

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, 117, 1) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 117, 1) }
```

Border

The CSS property to change the border of an element to Yxy 12.7248, 0.2997, 0.5991 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, 117, 1) }
```

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

```
.border{ border-color:rgb(0, 117, 1) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 117, 1)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 117, 1); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 117, 1); box-shadow:4px  
4px 4px 4px rgb(0, 117, 1) }
```


Background

The CSS property to change the background color of an element to Yxy 12.7248, 0.2997, 0.5991 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 117, 1) }
```

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

```
.background{ background-color: rgb(0, 117,  
1) }
```

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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