

Converting Colors

$Y_{xy}(22.7880, 0.2997, 0.5990)$

Have a look what the booklet for
Yxy(22.7880, 0.2997, 0.5990)
contains.

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Color

Yxy(22.7868, 0.2997, 0.5990)

Conversions

Conversions Part 1

Format	Color
Hex	009902
RGB	0, 153, 2
RGB Percent	0%, 60%, 1%
CMY	1.0000, 0.4000, 0.9923
CMYK	1.00, 0.00, 0.99, 0.40
HSL	121°, 100%, 30%
HSV	121°, 100%, 60%
XYZ	11.4010, 22.7868, 3.8536
YIQ	90.0390, -42.7170, -79.3970

Conversions

Conversions Part 2

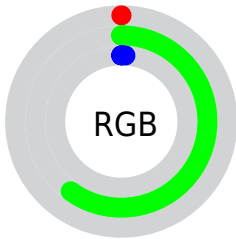
Format	Color
RYB	0, 151, 153
Decimal	39170
CIELab	54.85, -58.81, 56.49
CIELCh	55, 81.548, 136.150
Yxy	22.7868, 0.2997, 0.5990
Android (android.graphics.Color)	4278229250 (0xFF009902)
YUV	90.0390, -43.4032, -78.9642
Hunter-Lab	47.7355, -40.9048, 28.6285

Details

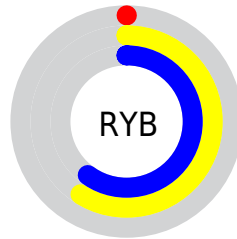
The Yxy color **22.7868, 0.2997, 0.5990** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **9.0083, 0.3241, 0.1559**, and the grayscale version is **10.3400, 0.3127, 0.3290**.

A 20% lighter version of the original color is **48.2295, 0.3122, 0.5349**, and **9.1143, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **22.7884, 0.2997, 0.5990**, and if you desaturate by 10%, it is **22.9289, 0.3001, 0.5884**.

Distribution



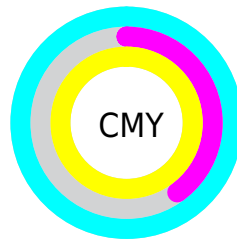
- Red (0%)
- Green (60%)
- Blue (1%)



- Red (0%)
- Yellow (59%)
- Blue (60%)



- Cyan (100%)
- Magenta (0%)
- Yellow (99%)
- Black (40%)





- Cyan (100%)
- Magenta (40%)
- Yellow (99%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 22.7868, 0.2997, 0.5990 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 22.7868, 0.2997, 0.5990 by changing the saturation by 10% instead.


 22.7868, 0.2997,
0.5990


 22.7868, 0.2997,
0.5990


266.6281, 0.3198,
0.4389


 14.4362, 0.2862,
0.6448


 48.0430, 0.3123,
0.5354


 8.4246, 0.2655,
0.7132


 65.7174, 0.3152,
0.5129


 4.3678, 0.2192,
0.7808

 87.2684, 0.3171,
0.4947

 1.8814, 0.0633,
0.9367

 113.0806, 0.3182,
0.4796

 0.5372, 0.0000,
1.0000


 143.5383, 0.3189,
0.4669


 0.0000, 0.0000,
0.0000

 179.0258, 0.3194,


0.4562


 219.9276, 0.3196,
0.4469

 22.7868, 0.2997,
0.5990


 22.7868, 0.2997,
0.5990


 22.7884, 0.2997,
0.5990

 22.9289, 0.3001,
0.5884

 23.1745, 0.3008,
0.5709

 23.5702, 0.3018,
0.5458

 24.1347, 0.3032,
0.5150

 24.8840, 0.3048,
0.4810

■ 25.8324, 0.3065,
0.4462

■ 26.9925, 0.3082,
0.4127

■ 28.3762, 0.3099,
0.3817

■ 29.9943, 0.3114,
0.3537

Harmonies

Analogous

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



22.7868, 0.4179, 0.5542



22.7868, 0.2997, 0.5990



22.7868, 0.1901, 0.4921

Triad

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



22.7868, 0.2997, 0.5990



22.7868, 0.1172, 0.1503



22.7868, 0.5428, 0.2879

Complementary

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



22.7868, 0.2997, 0.5990



9.0083, 0.3241, 0.1559

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.



22.7868, 0.4129, 0.2176



22.7868, 0.2997, 0.5990



22.7868, 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.



22.7868, 0.2997, 0.5990



22.7868, 0.1018, 0.1978



22.7868, 0.2679, 0.1662



22.7868, 0.5786, 0.3658

Rectangle

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



22.7868, 0.2997, 0.5990



22.7868, 0.1387, 0.3682



22.7868, 0.2679, 0.1662



22.7868, 0.5072, 0.2633

Sweetspot

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



22.7884, 0.2997, 0.5990



48.2030, 0.3081, 0.4147



29.5569, 0.4193, 0.5053



10.4588, 0.3075, 0.4274



76.7769, 0.3127, 0.3290



12.5967, 0.3127, 0.3290

Same Dimension

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



22.7884, 0.2997, 0.5990



40.8065, 0.2998, 0.5993



23.3129, 0.2717, 0.4983



6.9268, 0.3115, 0.3517



18.8333, 0.2997, 0.5989



0.2819, 0.2981, 0.5932

Inverse Universe

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



9.0083, 0.3241, 0.1559



16.1295, 0.3242, 0.1559



7.3016, 0.4929, 0.2489



6.3223, 0.3139, 0.3073



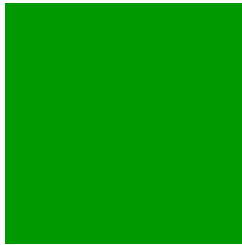
7.4451, 0.3241, 0.1559



0.1117, 0.3226, 0.1551

Previews

White Background



This preview shows how the Yxy color 22.7868, 0.2997, 0.5990 looks on a white background.

Color Contrast Check

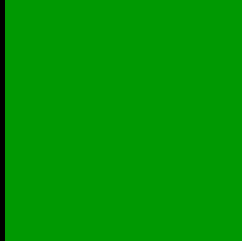
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the Yxy color 22.7868, 0.2997, 0.5990 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

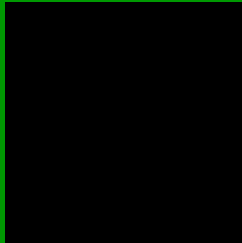
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

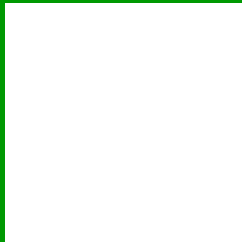
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 22.7868, 0.2997, 0.5990

Background



This preview shows how black text looks on a background with the Yxy color 22.7868, 0.2997, 0.5990.



This preview shows how white text looks on a background with the Yxy color 22.7868, 0.2997, 0.5990.

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

22.7868, 0.2997, 0.5990

Protanopia

22.4356, 0.4394, 0.4893

Deuteranopia

22.4176, 0.4579, 0.4504



Tritanopia

22.7691, 0.2367, 0.3059

Trichromacy



Original Color

22.7868, 0.2997, 0.5990



Protanomaly

20.8471, 0.3644, 0.5483



Deuteranomaly

20.3289, 0.3745, 0.5244



Tritanomaly

21.9300, 0.2652, 0.4325

Monochromacy



Original Color

22.7868, 0.2997, 0.5990



Achromatopsia

10.2242, 0.3127, 0.3290



Achromatomaly

12.9856, 0.3048, 0.4737

CSS Examples

Text

The CSS property to change the color of the text to Yxy 22.7868, 0.2997, 0.5990 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, 153, 2)` looks like.

```
.text, #text, p{  
    color:rgb(0, 153, 2)  
}
```

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, 153, 2) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 153, 2) }
```

Border

The CSS property to change the border of an element to Yxy 22.7868, 0.2997, 0.5990 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, 153, 2) }
```

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

```
.border{ border-color:rgb(0, 153, 2) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 153, 2)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 153, 2); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 153, 2); box-shadow:4px  
4px 4px 4px rgb(0, 153, 2) }
```


Background

The CSS property to change the background color of an element to Yxy 22.7868, 0.2997, 0.5990 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 153, 2) }
```

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

```
.background{ background-color: rgb(0, 153,  
2) }
```

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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