

Converting Colors

$Y_{xy}(20.7453, 0.2958, 0.6585)$

Have a look what the booklet for
Yxy(20.7453, 0.2958, 0.6585)
contains.

Yxy(21.4949, 0.3000, 0.6000)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(21.4949, 0.3000, 0.6000)

Conversions

Conversions Part 1

Format	Color
Hex	009500
RGB	0, 149, 0
RGB Percent	0%, 58%, 0%
CMY	1.0000, 0.4157, 1.0000
CMYK	1.00, 0.00, 1.00, 0.42
HSL	120°, 100%, 29%
HSV	120°, 100%, 58%
XYZ	10.7475, 21.4949, 3.5825
YIQ	87.4630, -40.9750, -77.9270

Conversions

Conversions Part 2

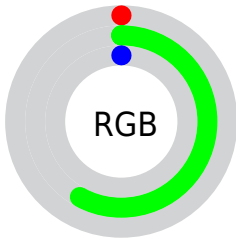
Format	Color
RYB	0, 149, 149
Decimal	38144
CIELab	53.49, -57.73, 55.72
CIELCh	53, 80.232, 136.016
Yxy	21.4949, 0.3000, 0.6000
Android (android.graphics.Color)	4278228224 (0xFF009500)
YUV	87.4630, -43.1193, -76.7051
Hunter-Lab	46.3626, -39.7559, 27.8724

Details

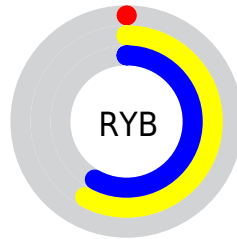
The Yxy color **21.4949, 0.3000, 0.6000** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **8.5595, 0.3209, 0.1542**, and the grayscale version is **9.7388, 0.3127, 0.3290**.

A 20% lighter version of the original color is **45.6901, 0.3125, 0.5349**, and **8.3657, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **21.4958, 0.3000, 0.6000**, and if you desaturate by 10%, it is **21.6307, 0.3005, 0.5894**.

Distribution



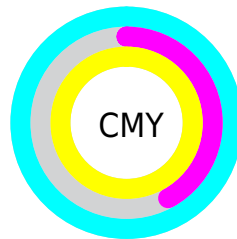
- Red (0%)
- Green (58%)
- Blue (0%)



- Red (0%)
- Yellow (58%)
- Blue (58%)



- Cyan (100%)
- Magenta (0%)
- Yellow (100%)
- Black (42%)




- Cyan (100%)
- Magenta (42%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 21.4949, 0.3000, 0.6000 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 21.4949, 0.3000, 0.6000 by changing the saturation by 10% instead.


 21.4949, 0.3000,
0.6000


 21.4949, 0.3000,
0.6000


259.8970, 0.3201,
0.4381


 13.4862, 0.2860,
0.6469


 45.9097, 0.3128,
0.5352


 7.7642, 0.2659,
0.7210


 63.0847, 0.3157,
0.5125


 3.9444, 0.2152,
0.7848

 84.0839, 0.3175,
0.4941

 1.6425, 0.0060,
0.9940

 109.2917, 0.3186,
0.4789


 0.3860, 0.0000,
1.0000


 139.0925, 0.3193,
0.4662


 0.0000, 0.0000,
0.0000


 173.8708, 0.3197,


0.4554

 214.0108, 0.3200,
0.4461


 21.4949, 0.3000,
0.6000


 21.4949, 0.3000,
0.6000


 21.4958, 0.3000,
0.6000

 21.6307, 0.3005,
0.5894

 21.8616, 0.3013,
0.5723

 22.2341, 0.3025,
0.5474

 22.7662, 0.3039,
0.5166

 23.4729, 0.3055,
0.4825

■ 24.3677, 0.3072,
0.4475

■ 25.4626, 0.3087,
0.4136

■ 26.7689, 0.3102,
0.3822

■ 28.2967, 0.3115,
0.3540

Harmonies

Analogous

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



21.4949, 0.4184, 0.5543



21.4949, 0.3000, 0.6000



21.4949, 0.1901, 0.4935

Triad

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



21.4949, 0.3000, 0.6000



21.4949, 0.1166, 0.1500



21.4949, 0.5431, 0.2874

Complementary

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



21.4949, 0.3000, 0.6000



8.5595, 0.3209, 0.1542

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.



21.4949, 0.4125, 0.2170



21.4949, 0.3000, 0.6000



21.4949, 0.1679, 0.1426

Square

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



21.4949, 0.3000, 0.6000



21.4949, 0.1014, 0.1978



21.4949, 0.2672, 0.1657



21.4949, 0.5793, 0.3653

Rectangle

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



21.4949, 0.3000, 0.6000



21.4949, 0.1385, 0.3690



21.4949, 0.2672, 0.1657



21.4949, 0.5072, 0.2628

Sweetspot

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



21.4958, 0.3000, 0.6000



45.4685, 0.3086, 0.4156



27.8856, 0.4193, 0.5053



9.9036, 0.3081, 0.4283



74.8414, 0.3127, 0.3290



11.9280, 0.3127, 0.3290

Same Dimension

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



21.4958, 0.3000, 0.6000



38.4946, 0.3000, 0.6000



21.9970, 0.2716, 0.4979



6.4684, 0.3116, 0.3518



18.0910, 0.3000, 0.6000



0.2214, 0.3000, 0.6000

Inverse Universe

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



8.5595, 0.3209, 0.1542



15.3283, 0.3209, 0.1542



6.8910, 0.4924, 0.2486



5.9092, 0.3137, 0.3072



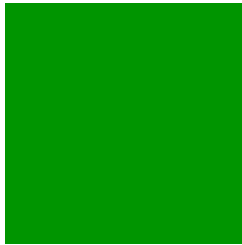
7.2037, 0.3209, 0.1542



0.0882, 0.3209, 0.1542

Previews

White Background



This preview shows how the Yxy color 21.4949, 0.3000, 0.6000 looks on a white background.

Color Contrast Check

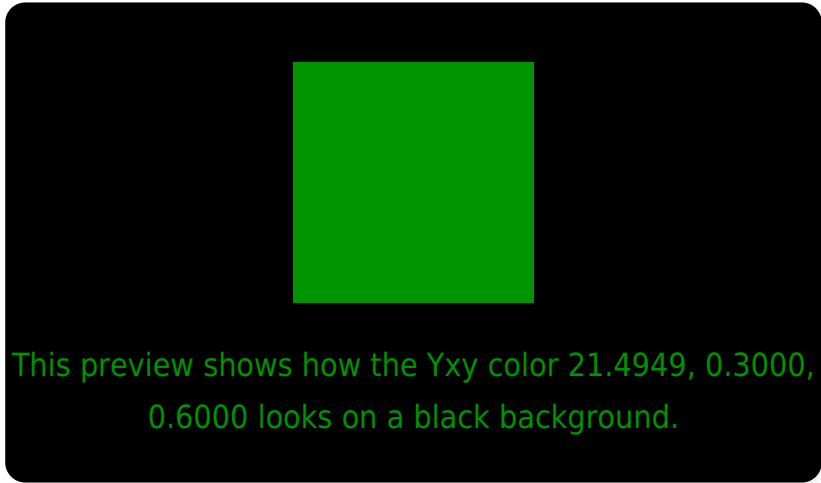
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

Black Background



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 21.4949, 0.3000, 0.6000

Background



This preview shows how black text looks on a background with the Yxy color 21.4949, 0.3000, 0.6000.



This preview shows how white text looks on a background with the Yxy color 21.4949, 0.3000, 0.6000.

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

21.4949, 0.3000, 0.6000

Protanopia

21.3676, 0.4398, 0.4890

Deuteranopia

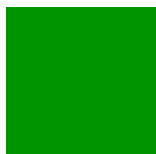
21.2526, 0.4577, 0.4505



Tritanopia

21.7240, 0.2375, 0.3074

Trichromacy



Original Color

21.4949, 0.3000, 0.6000



Protanomaly

19.8836, 0.3647, 0.5486



Deuteranomaly

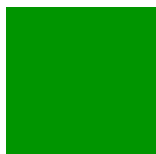
19.1079, 0.3764, 0.5241



Tritanomaly

20.9223, 0.2666, 0.4370

Monochromacy



Original Color

21.4949, 0.3000, 0.6000



Achromatopsia

9.5307, 0.3127, 0.3290



Achromatomaly

12.2399, 0.3058, 0.4773

CSS Examples

Text

The CSS property to change the color of the text to Yxy 21.4949, 0.3000, 0.6000 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, 149, 0)` looks like.

```
.text, #text, p{  
    color:rgb(0, 149, 0)  
}
```

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, 149, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 149, 0) }
```

Border

The CSS property to change the border of an element to Yxy 21.4949, 0.3000, 0.6000 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, 149, 0) }
```

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

```
.border{ border-color:rgb(0, 149, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 149, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 149, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 149, 0); box-shadow:4px  
4px 4px 4px rgb(0, 149, 0) }
```


Background

The CSS property to change the background color of an element to Yxy 21.4949, 0.3000, 0.6000 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 149, 0) }
```

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

```
.background{ background-color: rgb(0, 149,  
0) }
```

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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