

Converting Colors

$Y_{xy}(20.0363, 0.2961, 0.5870)$

Have a look what the booklet for
Yxy(20.0363, 0.2961, 0.5870)
contains.

Yxy(19.9970, 0.2963, 0.5867)	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(19.9970, 0.2963, 0.5867)

Conversions

Conversions Part 1

Format	Color
Hex	009014
RGB	0, 144, 20
RGB Percent	0%, 56%, 8%
CMY	1.0000, 0.4353, 0.9217
CMYK	1.00, 0.00, 0.86, 0.44
HSL	128°, 100%, 28%
HSV	128°, 100%, 56%
XYZ	10.0990, 19.9970, 3.9878
YIQ	86.8080, -46.0200, -69.0920

Conversions

Conversions Part 2

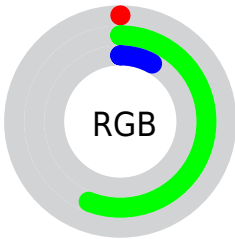
Format	Color
RYB	0, 126, 144
Decimal	36884
CIELab	51.83, -55.57, 50.54
CIELCh	52, 75.111, 137.715
Yxy	19.9970, 0.2963, 0.5867
Android (android.graphics.Color)	4278226964 (0xFF009014)
YUV	86.8080, -32.9363, -76.1306
Hunter-Lab	44.7180, -37.9443, 26.0153

Details

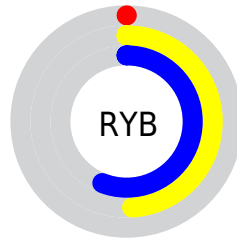
The Yxy color **19.9970, 0.2963, 0.5867** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **7.3856, 0.3585, 0.1749**, and the grayscale version is **9.5668, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.3611, 0.3084, 0.5224**, and **7.6543, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **19.9980, 0.2963, 0.5867**, and if you desaturate by 10%, it is **20.1505, 0.2953, 0.5707**.

Distribution



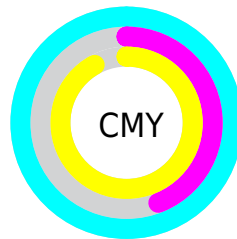
- Red (0%)
- Green (56%)
- Blue (8%)



- Red (0%)
- Yellow (49%)
- Blue (56%)



- Cyan (100%)
- Magenta (0%)
- Yellow (86%)
- Black (44%)




- Cyan (100%)
- Magenta (44%)
- Yellow (92%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 19.9970, 0.2963, 0.5867 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 19.9970, 0.2963, 0.5867 by changing the saturation by 10% instead.


 19.9970, 0.2963,
0.5867


 19.9970, 0.2963,
0.5867


251.8989, 0.3167,
0.4303


 12.3929, 0.2829,
0.6343


 43.4122, 0.3087,
0.5229


 7.0118, 0.2620,
0.7073


 59.9920, 0.3116,
0.5010


 3.4695, 0.2140,
0.7860

 80.3324, 0.3135,
0.4833

 1.3815, 0.0000,
1.0000

 104.8180, 0.3148,
0.4688

 0.2030, 0.0000,
1.0000


 133.8330, 0.3156,
0.4567


 0.0000, 0.0000,
0.0000


 167.7619, 0.3161,


0.4466

 206.9891, 0.3165,
0.4378

 19.9970, 0.2963,
0.5867


 19.9970, 0.2963,
0.5867

 19.9980, 0.2963,
0.5867

 20.1505, 0.2953,
0.5707

 20.3937, 0.2945,
0.5488

 20.7628, 0.2947,
0.5221

 21.2722, 0.2959,
0.4922

 21.9344, 0.2979,
0.4611

■ 22.7603, 0.3004,
0.4304

■ 23.7601, 0.3033,
0.4013

■ 24.9428, 0.3065,
0.3745

■ 26.3171, 0.3096,
0.3504

Harmonies

Analogous

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



19.9970, 0.4118, 0.5530



19.9970, 0.2963, 0.5867



19.9970, 0.1902, 0.4762

Triad

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



19.9970, 0.2963, 0.5867



19.9970, 0.1236, 0.1539



19.9970, 0.5391, 0.2941

Complementary

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



19.9970, 0.2963, 0.5867



7.3856, 0.3585, 0.1749

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.



19.9970, 0.4173, 0.2242



19.9970, 0.2963, 0.5867



19.9970, 0.1765, 0.1481

Square

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



19.9970, 0.2963, 0.5867



19.9970, 0.1069, 0.1987



19.9970, 0.2762, 0.1724



19.9970, 0.5699, 0.3716

Rectangle

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



19.9970, 0.2963, 0.5867



19.9970, 0.1412, 0.3585



19.9970, 0.2762, 0.1724



19.9970, 0.5062, 0.2697

Sweetspot

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



19.9980, 0.2963, 0.5867



41.7875, 0.3031, 0.4030



24.2927, 0.3965, 0.5234



9.4232, 0.3020, 0.4138



72.9347, 0.3127, 0.3290



11.2805, 0.3127, 0.3290

Same Dimension

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



19.9980, 0.2963, 0.5867



35.2548, 0.2969, 0.5889



20.7064, 0.2587, 0.4512



6.0408, 0.3099, 0.3485



17.4160, 0.2961, 0.5860



0.1684, 0.2816, 0.5337

Inverse Universe

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



7.3856, 0.3585, 0.1749



13.0075, 0.3594, 0.1753



6.1848, 0.5463, 0.2783



5.4983, 0.3157, 0.3103



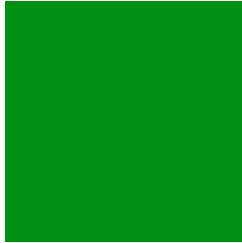
6.4337, 0.3583, 0.1747



0.0638, 0.3379, 0.1635

Previews

White Background



This preview shows how the Yxy color 19.9970, 0.2963, 0.5867 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 19.9970, 0.2963, 0.5867 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 19.9970, 0.2963, 0.5867

Background



This preview shows how black text looks on a background with the Yxy color 19.9970, 0.2963, 0.5867.



This preview shows how white text looks on a background with the Yxy color 19.9970, 0.2963, 0.5867.

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

19.9970, 0.2963, 0.5867

Protanopia

19.6839, 0.4371, 0.4833

Deuteranopia

19.7200, 0.4532, 0.4467



Tritanopia

20.0552, 0.2370, 0.3067

Trichromacy



Original Color

19.9970, 0.2963, 0.5867



Protanomaly

18.3447, 0.3602, 0.5401



Deuteranomaly

17.8692, 0.3703, 0.5145



Tritanomaly

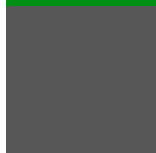
19.5091, 0.2600, 0.4162

Monochromacy



Original Color

19.9970, 0.2963, 0.5867



Achromatopsia

9.5307, 0.3127, 0.3290



Achromatomaly

11.8962, 0.2977, 0.4520

CSS Examples

Text

The CSS property to change the color of the text to Yxy 19.9970, 0.2963, 0.5867 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, 144, 20)` looks like.

```
.text, #text, p{  
    color:rgb(0, 144, 20)  
}
```

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, 144, 20) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 144, 20) }
```

Border

The CSS property to change the border of an element to Yxy 19.9970, 0.2963, 0.5867 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, 144, 20) }
```

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

```
.border{ border-color:rgb(0, 144, 20) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 144, 20)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 144, 20); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 144, 20);  
box-shadow:4px 4px 4px 4px rgb(0, 144, 20)  
}
```


Background

The CSS property to change the background color of an element to Yxy 19.9970, 0.2963, 0.5867 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 144, 20) }
```

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

```
.background{ background-color: rgb(0, 144,  
20) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor